

# AQQAAR

ANNUAL QUALITY ASSURANCE REPORT  
2019-2020



INTERNAL QUALITY ASSURANCE CELL

GURU NANAK DEV UNIVERSITY  
AMRITSAR



**राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद**

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

*An Autonomous Institution of the University Grants Commission*

# *Certificate of Accreditation*

*The Executive Committee of the  
National Assessment and Accreditation Council  
on the recommendation of the duly appointed  
Peer Team is pleased to declare the  
Guru Nanak Dev University  
Amritsar, Punjab as  
Accredited  
with CGPA of 3.51 on four point scale  
at A grade  
valid up to December 09, 2021*

*Date : December 10, 2014*



*D. Singh*  
Director

# A Q A R

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## FOREWORD

Guru Nanak Dev University has always attempted to become an establishment of distinction in academics, research, sports, and cultural activities. It maintains persistent fervour to expand and distribute the best amenities to its learners. For its determined efforts in this direction, the university has been conferred with the status of “University with Potential for Excellence” by UGC and accredited with “A++” grade (highest level as per modified criteria) by NAAC. It has also been granted “Category One” status, and GNDU is the only university to earn this elite status in the region of Punjab and Chandigarh. In the late 2019 and early 2020, the Covid-19 pandemic resulted in tremendous crisis-response migration of universities to online learning to serve as the educational platform. Moving away from traditional form of imparting education, GNDU immediately adopted supportable hybrid methods of instruction. The present Annual Quality Assurance Report (AQAR) unveils the collation of planned expansion and improvement of the university in diverse fields during the year 2019-20. The report is an evidence of all the significant accomplishments that Guru Nanak Dev University has made in this session.

All the endeavours, developments, researches and achievements of the last year reveal growth of the institution driven by merit in research, community partnerships, and academic successes. In the time of unmatched change also, Guru Nanak Dev University engaged its students in numerous cultural, athletic and extracurricular activities in addition to teaching and study. The efficient efforts to build upon its resources and make online learning well-organized and effective for students have resulted in a significant rise of 39% in admissions over the last four years, despite the overall decrease in admissions in the state.

Guru Nanak Dev University has also become renowned for its labours to reduce the carbon footprint and maintain cleanliness by being ranked 2<sup>nd</sup> amongst the cleanest higher educational institutions in the country in the category of Government Universities by the Ministry of Human Resource Development, Govt. of India. As a High Performing State Public University, Guru Nanak Dev University has improved its ranking from 80<sup>th</sup> in 2017 to 51<sup>st</sup> in 2020 among all Central, Public and Private Universities in the country according to NIRF, MHRD, Government of India. GNDU has also secured 17<sup>th</sup> position among 415 State Universities according to the Outlook Survey, 2020. The university has been placed 11<sup>th</sup> among the State Universities of India and 20<sup>th</sup> among all Central, Public and Private Universities in the country in the survey of India Today Ranking-2020. In World Universities Ranking (CWUR), the university is placed amongst top 10 State Public Universities and top 9% universities of the world. GNDU has improved its standing to 7<sup>th</sup> in North Zone Multi-Disciplinary Universities and 14<sup>th</sup> in the All India Multi-Disciplinary Universities in The Week-Hansa Research for the Best University Survey Ranking, 2017-2020.

Guru Nanak Dev University is committed to excellence in knowledge exchange and innovations ensuring that the research and teaching should benefit society on local, regional, national and global scales. The university has received substantial funding to establish Centre for Interfaith Studies and MYAS-GNDU Centre for Sports Sciences. The Government of India has allotted 4 Centres of Excellence in Sports (Athletics, Fencing, Cycling & Swimming) to GNDU and has also sanctioned a grant of Rs 17 crores. The university has also established three Centres under RUSA 2.0 and 4.0 Components: Centre for Agriculture Research and Innovation, Centre for

Sustainable Habitat and Centre for Basic and Translational Research in Health Sciences. By publishing in widely acclaimed peer-reviewed journals as well as earning numerous grants, and national and foreign fellowships; the faculty of the university has built a niche for itself in their respective research areas and the H-index has also increased to 113 from 64. For a record of 23 times, GNDU has also won the highest sports award in the country: The Maulana Abul Kalam Azad Trophy.

Guru Nanak Dev University has considerably expanded its national footprint. The present report records the colossal passion, resolve, diligence, and the immense concern of the institution and its members, who are making the best use of the renovating power of education. It displays the incredible progression in the last year as the university has advanced and also modified itself to the fluctuating needs of the world. Guru Nanak Dev University has judicious mission to guarantee that the vision of all those who become a part of this institution is achieved.



**(Prof. (Dr.) Jaspal Singh Sandhu)**  
**Vice-Chancellor**

## PREFACE

The Office of Internal Quality Assurance Cell of Guru Nanak Dev University, Amritsar (IQAC) has compiled the information on academic, administrative and financial activities and achievements of its University for Annual Quality Assurance Report: 2019-20 (AQAR) for the onward submission to *National Assessment and Accreditation Council* (NAAC). The report aims at highlighting the vision, mission and activities of the University towards attaining excellence.

The AQAR for the year 2019-20 highlights the accomplishments of the University in education, research as well as co-curricular activities. The University has improved its NIRF rank from 55 in 2019 to 51 in 2020 in the 'University Category' at the All India Level according to the "India Rankings 2020" by National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India, New Delhi. The Centre for World University Ranking, 2020 has ranked the University among the top 10 State Universities and among top 9% Universities of the World. Beside this, the University has scaled high in its rank from 20<sup>th</sup> in 2018 to 16<sup>th</sup> in 2020 in the 'Multi-Disciplinary Universities-All India Category' and 7<sup>th</sup> in the 'Multi-Disciplinary Universities – State Category' under 'The WEEKHANSA Research Survey for Best Universities'. In INDIA TODAY Survey has attained 20<sup>th</sup> rank in the 'India's Best General Government University Category'. The University has not only excelled in teaching and learning but has also come up with high quality research publications in peer reviewed journals. Its institutional H-index has scaled high to 106 and stands at top 10% highly cited papers in Scopus. For the same, the University has received higher research grants from various agencies as well. An excellent placement record of the University over the years indicates effectiveness of the teaching-learning process followed in the University under the visionary and dynamic leadership of esteemed Vice-Chancellor and sincere efforts of the faculty, staff and students of the University. The University tops as a model higher education institution for its digital, green and clean campus initiatives. Ministry of Higher Education, Government of India has identified it as the second cleanest campus among the Multi-disciplinary Government Universities across India under its Swachh Campus Ranking.

I would like to extend my sincere thanks to the worthy Vice-Chancellor, Prof. Jaspal Singh Sandhu, for extending his guidance and support to IQAC to carry out various activities in the interest of the University. I am grateful to the Dean Academic Affairs, Prof. Hardeep Singh, and the Registrar, Prof. Karanjeet Singh Kahlon, for their contributions in compiling the present AQAR. The efforts made by the IQAC Advisory Committee members in completing this report are duly acknowledged. IQAC remains indebted to the Heads of Departments and the faculty of the University for furnishing the required information for the present AQAR. Sincere efforts of the IQAC staff are deeply acknowledged as well.



**(Prof. Ashwani Luthra)**  
**Director, IQAC**

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*Part - A*

**1. DATA OF THE INSTITUTION**

<b>Name of the Institution</b>	<i>Guru Nanak Dev University</i>
<b>Name of the Head of the Institution</b>	<i>Prof. Jaspal Singh Sandhu</i>
<b>Designation</b>	<i>Vice Chancellor</i>
<b>Does the Institution Function from own Campus</b>	<i>Yes</i>
<b>Phone no/Alternate Phone No.</b>	<i>0183-2258811</i>
<b>Mobile No.</b>	<i>99588-40701</i>
<b>Registered Email</b>	<i>iqac@gndu.ac.in</i>
<b>Alternate Email</b>	<i>vcgndu@gmail.com</i>
<b>Address</b>	<i>Guru Nanak Dev University, G.T Road</i>
<b>City/Town</b>	<i>Amritsar</i>
<b>State/UT</b>	<i>Punjab</i>
<b>Pin Code</b>	<i>143005</i>

**2. INSTITUTIONAL STATUS**

<b>University</b>	<i>State</i>
<b>Type of Institution</b>	<i>Co-education</i>
<b>Location</b>	<i>Urban</i>
<b>Financial Status</b>	<i>State</i>
<b>Name of the IQAC Coordinator/Director</b>	<i>Prof. Ashwani Luthra</i>
<b>Phone No/Alternate Phone No.</b>	<i>0183-2255603</i>
<b>Mobile no.</b>	<i>81465-57234</i>
<b>Registered Email</b>	<i>iqac@gndu.ac.in</i>
<b>Alternate Email</b>	<i>ashwani.planning@gndu.ac.in</i>

**3. WEBSITE ADDRESS**

<b>Web-link of the AQAR: (Previous Academic Year)</b>	<i><a href="http://online.gndu.ac.in/pdf/AnnualQualityAssuranceReport(AQAR)201819.pdf">http://online.gndu.ac.in/pdf/AnnualQualityAssuranceReport(AQAR)201819.pdf</a></i>
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**4. ACADEMIC CALENDAR**

<b>Whether Academic Calendar prepared during the year</b>	<i>Yes</i>
<b>if yes, whether it is uploaded in the institutional website: Web link :</b>	<i><a href="http://online.gndu.ac.in/pdf/Academiccalendar201920.pdf">http://online.gndu.ac.in/pdf/Academiccalendar201920.pdf</a></i>

**5. ACCREDITATION DETAILS**

Cycle	Grade	CGPA	Year of Accreditation	Validity Cycle	
				Period from	Period to
2	A	3.50	2007	22-Dec-2007	09-Dec-2012
3	A++	3.51	2014	10-Dec-2012	09-Dec-2021

**6. ESTABLISHMENT OF IQAC**

Date of Establishment of IQAC	25-Nov-2002
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**7. INTERNAL QUALITY ASSURANCE SYSTEM**

Quality Initiatives by IQAC during the Year for Promoting Quality Culture		
Item /Title of the quality initiative by IQAC	Date & Duration	No.of Participants/ Beneficiaries
Rating/ Accreditation as a Tool for Improvement in Quality of Higher Education	24-Feb-2020(1)	75
NAAC Sponsored Orientation Programme	27-Aug-2019(1)	44

**8. PROVIDE THE LIST OF SPECIAL STATUS CONFERRED BY CENTRAL/ STATE GOVERNMENT- UGC/CSIR/DST/DBT/ICMR/TEQIP/WORLD BANK/CPE OF UGC ETC.**

Institution/Department/ Faculty	Scheme	Funding Agency	Year of Award with duration	Amount
<i>Refer Annexure - I</i>				

**9. COMPOSITION OF IQAC**

Whether composition of IQAC as per latest NAAC guidelines:	<i>Yes</i>
Upload latest notification of formation of IQAC	<i>Refer Annexure - II</i>

**10. IQAC MEETINGS**

Number of IQAC meetings held during the year :	<i>3</i>
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	<i>Yes</i>
Upload the minutes of meeting and action taken report	<i>Refer Annexure - III</i>

**11. IQAC FUNDING**

Whether IQAC received funding from any of the funding agency to support its activities during the year?	<i>No</i>
If yes, mention the amount	<i>-</i>
Year	<i>-</i>

**12. SIGNIFICANT CONTRIBUTIONS MADE BY IQAC**

Significant Contributions made by IQAC during the Current Year(maximum five bullets)
1. The University secured 51st rank in University ranking and 88th rank in the overall ranking of NIRF India Rankings 2020.
2. In the Education World 2020 Rankings, the University secured 26th rank among Government Institutes.
3. In the Centre for World University Rankings (CWUP), the University stands among the top 10 State Public Universities.
4. In the Nature Index (1 May 2019 30 April 2020), the University secured a position among the top 4 Institutes in Punjab and top 10 in North India.
5. The IQAC in collaboration with QS IGAUGE organized a workshop on Rating/ Accreditation as a Tool for Quality Improvement on February 2020, which was attended by several teachers from various colleges of Punjab.



**13. PLAN OF ACTION CHALKED OUT BY THE IQAC IN THE BEGINNING OF THE ACADEMIC YEAR TOWARDS QUALITY ENHANCEMENT AND OUTCOME ACHIEVED BY THE END OF THE ACADEMIC YEAR**

<b>Plan of Action</b>	<b>Achievements /Outcomes</b>
<i>Monitoring of Teaching and Learning Processes.</i>	<ul style="list-style-type: none"> <li>• <i>Encouraged the use of interactive audiovisual systems in classrooms for improving teaching-learning methods of online Teaching and Examinations.</i></li> <li>• <i>Continued the practice of taking Faculty Committee recommendation is under process.</i></li> </ul>
<i>To work on the recommendations of NAAC Peer Team.</i>	<i>Effective implementations of the NAAC Committee recommendations are under process.</i>
<i>Documentation of various activities in the University.</i>	<i>Prepared 50<sup>th</sup> Annual Report for the year 2019-2020 of the University.</i>
<i>Preparation of Self-reviewed AQAR.</i>	<i>Compiled AQAR 2018-2019 of the University.</i>
<i>To participate in surveys for University ranking.</i>	<i>Acted as a Nodal Agency for participating in various surveys like National Institutional Ranking Framework (NIRF), The Week, India Today, and AISHE Survey, Punjab Audit and FICCI, Association of Commonwealth Universities (ACU), and QS-Gauge Rating.</i>

**14. AQAR PLACED BEFORE STATUTORY BODY**

<b>Whether AQAR was placed before statutory body?</b>	<i>Yes</i>
<b>Name of Statutory Body</b>	<i>Advisory Committee of IQAC and Senate Meeting</i>
<b>Meeting Date</b>	<i>02-July-2021</i>

**15. VISIT OF NAAC/OR ANY OTHER ACCREDITED BODY(S)**

<b>Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?</b>	No
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**16. INSTITUTIONAL DATA SUBMITTED TO AISHE**

Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	21-May-2020

**17. MANAGEMENT INFORMATION SYSTEM**

<b>Does the Institution have Management Information System?</b>	<i>Yes</i>
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	



### **Digital Initiatives**

1. *Upgradation of Campus Wide Network in the University as per latest equipments and infrastructure.*
2. *Implementation of Centralized CCTV Surveillance System in the University Campus soon.*
3. *Developed Online Centralized Stock Register (OCSR) portal to store information about all the permanent stock items purchased by different departments/offices/branches of the University.*
4. *Developed web-based Online Purchase System (OPS) Portal for online submission of purchase requests initiated by different departments for further approval from the competent authority of the University.*
5. *Developed a web-based software application for inviting applications from the teachers for attending Refresher Courses, General Orientation Courses and Short Term Courses at the Human Resource Development Centre (HRDC) of the University.*
6. *Initiated the process of data integration related to different portals like admission, accounts, hostels, examination etc. with single point registration to generate unique identification (UID) of students from session 2020-21.*
7. *As per orders of Punjab Government, developed a dynamic website having end-to-end online features for conducting Centralized Online Counselling for admission to 3-year and 5-year Law Programmes in different institutes situated throughout the State for session 2020-21.*
8. *Revamped web-based File tracking System (FTS) with additional features to track the status of files in the University.*
9. *Revamped Employee Portal with additional features to facilitate the employees and administration of the University.*
10. *Revamped the website of the Human Resource Development Centre (HRDC) of the University by adding important features.*
11. *Upgraded the web-based portal of the Life Long Learning Department by introducing the features of online fee payment through Net Banking/Credit Card / Debit Card and Reporting.*
12. *Enhanced the features of the Punjab College Admissions Portal for online admission of students in various colleges affiliated to Guru Nanak Dev University, Amritsar.*

*Part - B*

**CRITERION I – CURRICULAR ASPECTS****1.1 – Curriculum Design and Development****1.1.1- Programmes for Which Syllabus Revision was Carried Out during the Academic Year**

Name of Programme	Programme Code	Programme Specialization	Date of Revision
<i>Refer Annexure -IV</i>			

**1.1.2- Programmes/ Courses Focussed on Employability/ Entrepreneurship/ Skill Development during the Academic Year**

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
<i>Refer Annexure - V</i>				

**1.2 – Academic Flexibility****1.2.1 – New Programmes/Courses Introduced during the Academic Year**

Programme/Course	Programme Specialization	Dates of Introduction
<i>M.Plan</i>	<i>Transport Planning</i>	<i>18/02/2019</i>
<i>Refer Annexure - VI</i>		

**1.2.2 – Programmes in which Choice Based Credit System (CBCS)/ Elective Course System Implemented at the University level during the Academic Year.**

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
<i>BTech</i>	<i>Textile Processing Technology</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Applied Chemistry (Pharma)</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Chemistry</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Chemistry</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Physics</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Physics</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Mathematics</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Mathematics</i>	<i>18/02/2019</i>
<i>BTech</i>	<i>Food Science &amp; Technology</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Food Science Technology</i>	<i>18/02/2019</i>
<i>BSc</i>	<i>Botany</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Botany</i>	<i>18/02/2019</i>
<i>Mtech</i>	<i>Environmental Sciences &amp; Technology</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Environmental Sciences</i>	<i>18/02/2019</i>
<i>BSc</i>	<i>Medical Lab Technology</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Molecular Biology &amp; Biochemistry</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Molecular Biology &amp; Biochemistry</i>	<i>18/02/2020</i>



<i>MSc</i>	<i>Zoology</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Zoology</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Microbiology</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Biotechnology</i>	<i>18/02/2019</i>
<i>BSc</i>	<i>Human Genetics</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Human Genetics</i>	<i>18/02/2019</i>
<i>MSc</i>	<i>Human Genetics</i>	<i>18/02/2019</i>
<i>BPharm</i>	<i>Pharmacy</i>	<i>18/02/2019</i>
<i>MPharm</i>	<i>Pharmacy</i>	<i>18/02/2019</i>
<i>MA</i>	<i>Political Science</i>	<i>18/02/2019</i>
<i>MA</i>	<i>History</i>	<i>18/02/2019</i>
<i>MA</i>	<i>Sociology</i>	<i>18/02/2019</i>
<i>BLibISc</i>	<i>Library &amp; Information Science</i>	<i>18/02/2019</i>
<i>MLibISc</i>	<i>Library &amp; Information Science</i>	<i>18/02/2019</i>
<i>MA</i>	<i>Psychology</i>	<i>18/02/2019</i>
<i>BA</i>	<i>Social Sciences</i>	<i>18/02/2019</i>
<i>MA</i>	<i>Social Sciences</i>	<i>18/02/2019</i>
<i>BArch</i>	<i>Architecture</i>	<i>18/02/2019</i>
<i>MArch</i>	<i>Urban Design</i>	<i>18/02/2019</i>
<i>Mtech</i>	<i>Construction Technology &amp; Management</i>	<i>18/02/2019</i>
<i>BTech</i>	<i>Urban and Regional Planning</i>	<i>18/02/2019</i>
<i>Mtech</i>	<i>Urban Planning</i>	<i>18/02/2019</i>
<i>BPlan</i>	<i>Urban and Regional Planning</i>	<i>18/02/2019</i>
<i>MPlan</i>	<i>Transport Planning</i>	<i>18/02/2019</i>
<i>MPlan</i>	<i>Urban Planning</i>	<i>18/02/2019</i>
<i>MPlan</i>	<i>Infrastructure Planning</i>	<i>18/02/2019</i>
<i>MPA</i>	<i>Music</i>	<i>18/02/2019</i>
<i>MPA</i>	<i>Music</i>	<i>18/02/2019</i>
<i>MCA</i>	<i>Computer Applications</i>	<i>18/02/2019</i>
<i>MCA</i>	<i>Computer Applications</i>	<i>18/02/2019</i>
<i>BTech</i>	<i>Computer Engineering</i>	<i>18/02/2019</i>
<i>BTech</i>	<i>Computer Science &amp; Engineering</i>	<i>18/02/2019</i>
<i>Mtech</i>	<i>Computer Science &amp; Engineering</i>	<i>18/02/2019</i>
<i>BTech</i>	<i>Electronics &amp; Computer Engineering</i>	<i>18/02/2019</i>
<i>BTech</i>	<i>Electronics &amp; Communications Engineering</i>	<i>18/02/2019</i>
<i>Mtech</i>	<i>Electronics &amp; Communications Engineering</i>	<i>18/02/2019</i>
<i>BPT</i>	<i>Physiotherapy</i>	<i>18/02/2019</i>
<i>MPT</i>	<i>Physiotherapy</i>	<i>18/02/2019</i>
<i>MA</i>	<i>Religious Studies</i>	<i>18/02/2019</i>



MA	Philosophy	18/02/2019
MEd	Education	18/02/2019
MA	Educational Management & Leadership	18/02/2019
MA	Education	18/02/2019
MA	Sanskrit	18/02/2019
BA	Punjabi	18/02/2019
MA	Punjabi	18/02/2019
MA	English	18/02/2019
MA	Hindi	18/02/2019
MA	Business Economics	18/02/2019
BSc	Economics	18/02/2019
MSc	Economics	18/02/2019
MCom	Commerce	18/02/2019
BCom	Commerce	18/02/2019
MBA	Finance	18/02/2019
MCom	Commerce	18/02/2019
MBA	Business Administration	18/02/2019
MBA	Business Administration	18/02/2019
MBA	Marketing Management	18/02/2019
MBA	Financial Analysis	18/02/2019
MBA	Human Resource Development	18/02/2019
BA LLB	Law	18/02/2019
LLM	Law	18/02/2019
LLB	Law	18/02/2019
BPEd	Physical Education	18/02/2019
BPES	Physical Education and Sports	18/02/2019
MPEd	Physical Education	18/02/2019
MHA	Hospital Administration	18/02/2019
MPT	Sports Physiotherapy	18/02/2019
MSc	Sports Nutrition	18/02/2019
MSc	Exercise & Sports Psychology	18/02/2019
MA	Sports Psychology	18/02/2019
BTTM	Tourism and Hospitality	18/02/2019
BHMCT	Tourism and Hospitality	18/02/2019
BTech	Mechanical Engineering	18/02/2019
BTech	Civil Engineering	18/02/2019
Mtech	Mechanical Engineering	18/02/2019
BSc(Agriculture)	Agriculture	18/02/2019
BA (Journalism)	Journalism & Mass Communication	18/02/2019

**1.3 – Curriculum Enrichment**

<b>1.3.1 – Value-added Courses Imparting Transferable and Life Skills Offered during the Year</b>		
<b>Value Added Courses</b>	<b>Date of Introduction</b>	<b>Number of Students Enrolled</b>
<i>Refer Annexure - VII</i>		

<b>1.3.2 – Field Projects/Internships Undertaken during the Year</b>		
<b>Project/Programme Title</b>	<b>Programme Specialization</b>	<b>No. of Students Enrolled for Field Projects / Internships</b>
<i>Refer Annexure - VIII</i>		

**1.4 – Feedback System**

<b>1.4.1 – Whether Structured Feedback Received from all the Stakeholders?</b>	
<i>Students</i>	<i>Yes</i>
<i>Teachers</i>	<i>Yes</i>
<i>Employers</i>	<i>Yes</i>
<i>Alumni</i>	<i>Yes</i>
<i>Parents</i>	<i>Yes</i>

<b>1.4.2 – How the Feedback Obtained is being Analyzed and Utilized for Overall Development of the Institution? (maximum 500 words)</b>
<i>The feedback about the curriculum and the teaching practices being followed is taken from the students at the Departmental and University level by the respective Head of the Department and the worthy Vice Chancellor of the University face to face as well via email. Also, the feedback is obtained from the stakeholders. The information thus collected is used to better the academic, professional and entrepreneurial skills of the students and to increase their employability potentials.</i>

**CRITERION II – TEACHING, LEARNING AND EVALUATION****2.1 – Student Enrolment and Profile****2.1.1 – Demand Ratio during the Year**

Name of the Programme	Programme Specialization	Number of Seats Available	Number of Application Received	Students Enrolled
<i>Refer Annexure - IX</i>				

**2.2 – Catering to Student Diversity****2.2.1 – Student - Full Time Teacher Ratio (Current Year Data)**

Year	Number of Students Enrolled in the Institution (UG)	Number of Students Enrolled in the Institution (PG)	Number of Fulltime Teachers Available in the Institution Teaching only UG Courses	Number of Fulltime Teachers Available in the Institution Teaching only PG Courses	Number Of Teachers Teaching Both UG and PG Courses
2019	4967	4789	532	532	532

**2.3 – Teaching - Learning Process****2.3.1 – Percentage of Teachers using ICT for Effective Teaching with Learning Management Systems (LMS), E-learning Resources etc. (Current Year Data)**

Number of Teachers on Roll	Number of Teachers using ICT (LMS, e-Resources)	ICT Tools & Resources Available	Number of ICT Enabled Classrooms	Number of Smart Classrooms	E-resources & Techniques Used
532	532	7	279	197	7

**2.3.2 – Students Mentoring System Available in the Institution? Give Details. (maximum 500 words)**

Student mentoring is done at the department level for their academic, professional, and extra-curricular needs on time to time basis by the faculty of the department.

Number of Students Enrolled in the Institution	Number of Fulltime Teachers	Mentor : Mentee Ratio
9756	532	1:18

**2.4 – Teacher Profile and Quality****2.4.1 – Number of Full Time Teachers Appointed during the Year**

No. of Sanctioned Positions	No. of Filled Positions	Vacant Positions	Positions Filled During the Current Year	No. of Faculty with Ph.D
750	309	441	1	262



<b>2.4.2 – Honours and Recognition Received by Teachers (Received Awards, Recognition, Fellowships at State, National, International Level from Government, Recognised Bodies during the Year)</b>			
<b>Year of Award</b>	<b>Name of Full Time Teachers Receiving Awards from State Level, National Level, International Level</b>	<b>Designation</b>	<b>Name of the Award, Fellowship, Received from Government or Recognized Bodies</b>
<i>Refer Annexure – X</i>			

**2.5 – Evaluation Process and Reforms**

<b>2.5.1 – Number of Days from the Date of Semester-end/ year- end Examination till the Declaration of Results during the Year</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Semester/ Year</b>	<b>Last Date of the Last Semester-End/ Year-End Examination</b>	<b>Date of Declaration of Results of Semester-End/ Year- End Examination</b>
<i>Refer Annexure - XI</i>				

<b>2.5.2 – Average Percentage of Student Complaints/Grievances about Evaluation against Total Number Appeared in the Examinations during the Year</b>		
<b>Number of Complaints or Grievances about Evaluation</b>	<b>Total Number of Students Appeared in the Examination</b>	<b>Percentage</b>
<i>110</i>	<i>9756</i>	<i>1.88</i>

**2.6 – Student Performance and Learning Outcomes**

<b>2.6.1 – Program Outcomes, Program Specific Outcomes and Course Outcomes for all Programs Offered by the Institution are Stated and Displayed in Website of the Institution (to provide the web link)</b>
<i><a href="http://online.gndu.ac.in/pdf/Prospectus2019-20.pdf">http://online.gndu.ac.in/pdf/Prospectus2019-20.pdf</a></i>

<b>2.6.2 – Pass Percentage of Students</b>					
<b>Programme Code</b>	<b>Programme Name</b>	<b>Programme Specialization</b>	<b>Number of Students Appeared in the Final Year Examination</b>	<b>Number of Students Passed in Final Year Examination</b>	<b>Pass Percentage</b>
<i>Refer Annexure - XII</i>					

**2.7 – Student Satisfaction Survey**

<b>2.7.1 – Student Satisfaction Survey (SSS) on Overall Institutional Performance (Institution may design the questionnaire) (results and details be provided as web link)</b>
<i><a href="http://online.gndu.ac.in/pdf/Students%20Feedback%20Proforma.pdf">http://online.gndu.ac.in/pdf/Students%20Feedback%20Proforma.pdf</a></i>

**CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION****3.1 – Promotion of Research and Facilities**

<b>3.1.1 – Teachers Awarded National/International Fellowship for Advanced Studies/ Research during the Year</b>				
<b>Type</b>	<b>Name of the Teacher Awarded the Fellowship</b>	<b>Name of the Award</b>	<b>Date of Award</b>	<b>Awarding Agency</b>
<i>Refer Annexure - XIII</i>				

<b>3.1.2 – Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and Other Fellows in the Institution Enrolled during the Year</b>		
<b>Name of Research Fellowship</b>	<b>Duration of the Fellowship</b>	<b>Funding Agency</b>
<i>Refer Annexure - XIV</i>		

**3.2 – Resource Mobilization for Research**

<b>3.2.1 – Research Funds Sanctioned and Received from Various Agencies, Industry and Other Organizations</b>				
<b>Nature of the Project</b>	<b>Duration</b>	<b>Name of the Funding Agency</b>	<b>Total Grant Sanctioned</b>	<b>Amount Received During the Year</b>
<i>Refer Annexure - XV</i>				

**3.3 – Innovation Ecosystem**

<b>3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative Practices during the Year</b>		
<b>Title of Workshop/Seminar</b>	<b>Name of the Dept.</b>	<b>Date</b>
<i>NIL</i>	<i>NIL</i>	<i>30/06/2020</i>

<b>3.3.2 – Awards for Innovation Won by Institution/Teachers/Research Scholars/Students during the Year</b>				
<b>Title of the Innovation</b>	<b>Name of Awardee</b>	<b>Awarding Agency</b>	<b>Date of Award</b>	<b>Category</b>
<i>Refer Annexure - XVI</i>				

<b>3.3.3 – No. of Incubation Centre Created, Start-Ups Incubated on Campus during the Year</b>					
<b>Incubation Centre</b>	<b>Name</b>	<b>Sponsored by</b>	<b>Name of the Start-up</b>	<b>Nature of Start-up</b>	<b>Date of Commencement</b>
<i>NIL</i>	<i>NIL</i>	<i>NIL</i>	<i>NIL</i>	<i>NIL</i>	<i>30/06/2020</i>

**3.4 – Research Publications and Awards****3.4.1 – Ph.Ds Awarded during the Year**

<b>Name of the Department</b>	<b>Number of Ph.D's Awarded</b>
<i>Chemistry</i>	18
<i>Education</i>	2
<i>Electronics Technology</i>	2
<i>Guru Nanak Studies</i>	1
<i>University Business School</i>	7
<i>Microbiology</i>	3
<i>Biotechnology</i>	5
<i>Botanical Environmental Sciences</i>	14
<i>Computer Engineering and Technology</i>	1
<i>Computer Science</i>	10
<i>English</i>	3
<i>Food Science Technology</i>	1
<i>History</i>	3
<i>Human Genetics</i>	4
<i>Laws</i>	6
<i>Mathematics</i>	1
<i>Molecular Biology and Biochemistry</i>	5
<i>Music</i>	3
<i>Pharmaceutical Sciences</i>	4
<i>Physical Education</i>	4
<i>Physics</i>	9
<i>Physiotherapy</i>	1
<i>Political Science</i>	3
<i>Psychology</i>	6
<i>Sanskrit</i>	3
<i>Sociology</i>	2
<i>Zoology</i>	4
<i>Guru Ramdas School of Planning</i>	1
<i>Punjab School of Economics</i>	6
<i>School of Punjabi Studies</i>	3
<i>University School of Financial Studies</i>	6

**3.4.2 – Research Publications in the Journals Notified on UGC Website during the Year**

<b>Type</b>	<b>Department</b>	<b>Number of Publication</b>	<b>Average Impact Factor (if any)</b>
<i>Refer Annexure - XVII</i>			

**3.4.3 – Books and Chapters in Edited Volumes / Books Published, and Papers in National/International Conference Proceedings per Teacher during the Year**

Department	Number of Publication
<i>Refer Annexure - XVIII</i>	

**3.4.4 – Patents Published/Awarded/Applied during the Year**

Patent Details	Patent Status	Patent Number	Date of Award
<i>Germination Tube</i>	<i>Published</i>	<i>311150</i>	<i>17/10/2019</i>
<i>Deregulated Hyper- Cellulose producing Mutant Strains and Combinations</i>	<i>Filed</i>	<i>43299</i>	<i>10/10/2019</i>

**3.4.5 – Bibliometrics of the Publications During the Last Academic Year Based on Average Citation Index in Scopus/ Web of Science or Pubmed/ Indian Citation Index**

Title of the Paper	Name of Author	Title of Journal	Year of Publication	Citation Index	Institutional Affiliation as Mentioned in the Publication	Number of Citations excluding Self-Citation
<i>Refer Annexure - XIX</i>						

**3.4.6 – h-Index of the Institutional Publications during the Year. (based on Scopus/ Web of science)**

Title of the Paper	Name of Author	Title of Journal	Year of publication	h- Index	Number of Citations excluding Self-Citation	Institutional Affiliation as Mentioned in the Publication
<i>Refer Annexure - XX</i>						

**3.4.7 – Faculty Participation in Seminars/Conferences and Symposia during the Year**

Number of Faculty	International	National	State	Local
<i>Attended/Seminars/ Workshops</i>	<i>26</i>	<i>184</i>	<i>48</i>	<i>6</i>
<i>Presented papers</i>	<i>81</i>	<i>162</i>	<i>197</i>	<i>14</i>
<i>Resource persons</i>	<i>18</i>	<i>30</i>	<i>16</i>	<i>8</i>

**3.5 – Consultancy****3.5.1 – Revenue generated from Consultancy during the year**

Name of the Consultant(s) Department	Name of Consultancy Project	Consulting/ Sponsoring Agency	Revenue Generated (amount in rupees)
<i>Architecture</i>	<i>Development of Paavan Valmiki Tirath</i>	<i>PWD B R Govt of Punjab</i>	<i>3534695</i>
<i>Civil Engineering</i>	<i>Mukh Mantri Pendu Vikas Yozana</i>	<i>Panchayati Raj P.W.D (CM) Division, SAS Nagar</i>	<i>764024</i>
<i>Civil Engineering</i>	<i>Mukh Mantri Pendu Vikas Yozana</i>	<i>Panchayati Raj P.W.D (CM) Division, SAS Nagar</i>	<i>279392</i>



Architecture	Digitization of Shijra Plan of Town of Dera Baba Nanak and Surrounding village	Municipal Council, Dera Baba Nanak	200000
Architecture	Syama Prasad Mukherji Rurban Mission	Rurban Mission Haryana	1587500
Architecture	Syama Prasad Mukherji Rurban Mission	Rurban Mission Haryana	617400

### 3.5.2 – Revenue Generated from Corporate Training by the Institution during the Year

Name of the Consultant(s) Department	Title of the Programme	Agency seeking Training	Revenue Generated (amount in rupees)	Number of Trainees
<i>Nil</i>	<i>Nil</i>	<i>Nil</i>	<i>Nil</i>	<i>Nil</i>

### 3.6 – Extension Activities

#### 3.6.1 – Number of Extension and Outreach Programmes Conducted in Collaboration with Industry, Community and Non-Government Organizations through NSS/NCC/Red Cross/Youth Red Cross (YRC) etc., during the Year

Title of the Activities	Organizing Unit/Agency/ Collaborating Agency	Number of Teachers Participated in such Activities	Number of Students Participated in such Activities
<i>Refer Annexure - XXI</i>			

#### 3.6.2 – Awards and Recognition Received for Extension Activities from Government and Other Recognized Bodies during the Year

Name of Activity	Award/Recognition	Awarding Bodies	Number of Students Benefited
<i>Mehandi</i>	<i>Third Position</i>	<i>National Level</i>	<i>1</i>
<i>Light Vocal (Indian)</i>	<i>Sliver Medal</i>	<i>National Level</i>	<i>1</i>
<i>Western Group Song</i>	<i>Third Position</i>	<i>National Level</i>	<i>6</i>
<i>Folk Orchestra</i>	<i>Sliver Medal</i>	<i>National Level</i>	<i>7</i>
<i>Collage</i>	<i>Sliver Medal</i>	<i>National Level</i>	<i>1</i>
<i>Poster Making</i>	<i>Third Position</i>	<i>National Level</i>	<i>1</i>
<i>Rangoli</i>	<i>Gold Medal</i>	<i>National Level</i>	<i>1</i>
<i>Installation</i>	<i>Gold Medal</i>	<i>National Level</i>	<i>1</i>
<i>On the Spot Photography</i>	<i>Silver Medal</i>	<i>National Level</i>	<i>1</i>



### 3.6.3 – Students Participating In Extension Activities With Government Organizations, Non-Government Organizations and Programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the Year

Name of the Scheme	Organizing Unit/Agency/ Collaborating Agency	Name of the Activity	Number of Teachers Participated in such Activities	Number of Students Participated in such Activities
Plantation Camp at University Campus	Unit-I	Plantation Camp at University Campus	3	100
International Literacy Day	Unit-I	International Literacy Day	3	100
Swachh Bharat Pakhwada	Unit-I Unit-II	Swachh Bharat Pakhwada	3	200
Yoga Day	Unit-I Unit-II	Yoga Day	1	200
District Youth Parliament	Unit-I	District Youth Parliament	3	100
Aid Awareness Program	Unit-I	Aid Awareness Program	3	100
Celebrated NSS Day	Unit-I Unit-II	Celebrated NSS Day	3	200
Swachhta Abhyan Drive	Unit-I Unit-II	Swachhta Abhyan Drive	3	200
Awareness Campaign against Stubble Burning	Unit-I Unit-II	Awareness Campaign against Stubble Burning	3	200

### 3.7 – Collaborations

#### 3.7.1 – Number of Collaborative Activities for Research, Faculty Exchange, Student Exchange during the Year

Nature of Activity	Participant	Source of Financial Support	Duration
Nil	0	Nil	0

#### 3.7.2 – Linkages with Institutions/Industries for Internship, On-The- Job Training, Project Work, Sharing Of Research Facilities etc. during the Year

Nature of Linkage	Title of the Linkage	Name of the Partnering Institution/ Industry /Research Lab with Contact Details	Duration From	Duration To	Participant
Refer Annexure - XXII					

#### 3.7.3 – MoUs Signed with Institutions of National, International Importance, Other Universities, Industries, Corporate Houses etc. during the Year

Organization	Date of MoU Signed	Purpose/ Activities	Number of Students/ Teachers Participated under MoUs
Sant Longowal Institute of Engineering and Technology, Longowal	26/09/2019	Faculty And Students Exchange Programs, Research and Development Participation	39
Punjab Agriculture University, Ludhiana	16/10/2019	-do-	34
Maharaja Ranjit Singh Punjab Technical University, Bathinda	16/10/2019	-do-	33
Memorial University of Newfoundland, Newfoundland Labrador, Canada	25/02/2019	-do-	36

**CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES****4.1 – Physical Facilities****4.1.1 – Budget Allocation, Excluding Salary for Infrastructure Augmentation during the Year**

Budget Allocated for Infrastructure Augmentation (in Rupees)	Budget Utilized for Infrastructure Development (in Rupees)
309555000	144047402

**4.1.2 – Details of Augmentation in Infrastructure Facilities during the Year**

Facilities	Existing or Newly Added
<i>Refer Annexure - XXIII</i>	

**4.2 – Library as a Learning Resource****4.2.1 – Library is automated {Integrated Library Management System (ILMS)}**

Name of the ILMS Software	Nature of Automation (fully or partially)	Version	Year of Automation
<i>Customize Software (GNDU)</i>	<i>Partially</i>	<i>MS-DOS</i>	<i>2006</i>

**4.2.2 – Library Services**

Library Service Type	Existing	Newly Added	Total
<i>Refer Annexure - XXIV</i>			

**4.2.3 – E-Content Developed by Teachers such as: E-PG- Pathshala, CEC (Under E-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCS Platform NPTEL/NMEICT/any other Government Initiatives & Institutional (Learning Management System (LMS) etc.**

Name of the Teacher	Name of the Module	Platform on which Module is Developed	Date of Launching e-Content
<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>30/06/2020</i>

**4.3 – IT Infrastructure****4.3.1 – Technology Upgradation (Overall)**

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
<i>Existing</i>	<i>3076</i>	<i>12</i>	<i>1</i>	<i>6</i>	<i>1</i>	<i>74</i>	<i>39</i>	<i>1024</i>	<i>0</i>
<i>Added</i>	<i>52</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>4</i>	<i>0</i>	<i>0</i>
<i>Total</i>	<i>3128</i>	<i>12</i>	<i>1</i>	<i>6</i>	<i>1</i>	<i>74</i>	<i>43</i>	<i>1024</i>	<i>0</i>

**4.3.2 – Bandwidth available of Internet Connection in the Institution (Leased Line)**

<i>1024 MBPS/ GBPS</i>
------------------------



4.3.3 – Facility for e-Content	
Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
<i>E-journals, E-books are available for faculty and the students</i>	<i><a href="http://library.gndu.ac.in/">http://library.gndu.ac.in/</a></i>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on Maintenance of Physical Facilities and Academic Support Facilities, Excluding Salary Component during the Year			
Assigned Budget on Academic Facilities (in Rupees)	Expenditure Incurred on Maintenance of Academic Facilities (in Rupees)	Assigned Budget on Physical Facilities (in Rupees)	Expenditure Incurred on Maintenance of Physical Facilities (in Rupees)
830939459	321515728	391613443	212788314

4.4.2 – Procedures and Policies for Maintaining and Utilizing Physical, Academic and Support Facilities - Laboratory, Library, Sports Complex, Computers, Classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)
<i>The University Campus has various lecture halls, auditoriums, seminar halls and sports complex which can be used by any department for the various academic, cultural as well as sports activities. For this, prior permission from the competent authority is needed. Various departments in the Faculty of Sciences have high-end instruments in addition to the central instrumentation facility. Any student (within or outside GNDU) can use these instruments for their work with prior permission from the concerned person-in-charge. Each department as well as the hostels have their own computer labs available for the students.</i>
<i><a href="http://www.gndu.ac.in">http://www.gndu.ac.in</a></i>

**CRITERION V – STUDENT SUPPORT AND PROGRESSION****5.1 – Student Support****5.1.1 – Scholarships and Financial Support**

	Name/Title of the Scheme	Number of Students	Amount in Rupees
<b>Financial Support from Institution</b>	<b>Full/ Half Fees Concession Handicapped, Employees Ward, Riots Affected, Player Quota</b>	1554	37005820
<b>Financial Support from Other Sources</b>			
a) National	NIL	973	68714050
b) International	NIL	0	0

**5.1.2 – Number of Capability Enhancement and Development Schemes such as Soft Skill Development, Remedial Coaching, Language Lab, Bridge Courses, Yoga, Meditation, Personal Counselling and Mentoring Etc.,**

Name of the Capability Enhancement Scheme	Date of Implementation	Number of Students Enrolled	Agencies Involved
<i>Refer Annexure - XXV</i>			

**5.1.3 – Students Benefited by Guidance for Competitive Examinations and Career Counselling offered by the Institution during the Year**

Year	Name of the Scheme	Number of Benefited Students for Competitive Examination	Number of Benefited Students by Career Counseling Activities	Number of Students who have Passed in the Comp. Exam	Number of Students Placed
2019	<i>Competitive Examination and Career Counselling</i>	44	4	4	4

**5.1.4 – Institutional Mechanism for Transparency, Timely Redressal of Student Grievances, Prevention of Sexual Harassment and Ragging Cases during the Year**

Total Grievances Received	Number of Grievances Redressed	Avg. Number of Days for Grievance Redressal
<i>NIL</i>	<i>NIL</i>	<i>NIL</i>

**5.2 – Student Progression****5.2.1 – Details of Campus Placement during the Year**

On Campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
<i>Refer Annexure - XXVI</i>					



<b>5.2.2 – Student Progression to Higher Education in Percentage during the Year</b>					
<b>Year</b>	<b>Number of Students Enrolling into Higher Education</b>	<b>Programme Graduated from</b>	<b>Department Graduated from</b>	<b>Name of Institution Joined</b>	<b>Name of Programme Admitted to</b>
<i>Refer Annexure - XXVII</i>					

<b>5.2.3 – Students Qualifying in State/ National/ International Level Examinations during the Year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/ TOFEL/Civil Services/State Government Services)</b>	
<b>Items</b>	<b>Number of students selected/ qualifying</b>
NET	94
GATE	52
CAT	1
Civil Services	1
Any Other	7
GRE	3
TOFEL	1

<b>5.2.4 – Sports and Cultural Activities/ Competitions Organized at the Institution Level during the Year</b>		
<b>Activity</b>	<b>Level</b>	<b>Number of Participants</b>
<i>Refer Annexure - XXVIII</i>		

### **5.3 – Student Participation and Activities**

<b>5.3.1 – Number of Awards/Medals for Outstanding Performance in Sports/Cultural Activities at National/International Level (award for a Team Event should be Counted as one)</b>						
<b>Year</b>	<b>Name of the Award/Medal</b>	<b>National/ International</b>	<b>Number of Awards for Sports</b>	<b>Number of Awards for Cultural</b>	<b>Student ID Number</b>	<b>Name of the Student</b>
<i>Refer Annexure - XXIX</i>						

<b>5.3.2 – Activity of Student Council &amp; Representation of Students on Academic &amp; Administrative Bodies/Committees of the Institution (Maximum 500 Words)</b>
<i>The students are well represented in the various academic and administrative committees like Anti- Ragging committee, Poor-Aid fund committee, Grievance Cell, Foreign Student committee, IQAC, Equal opportunity Cell etc. In addition, each class has a student representative who is a member of the Student Council. Yearly elections to select executive members of the Student Council are held under the chairmanship of Dean Students Welfare.</i>



## 5.4 – Alumni Engagement

### 5.4.1 – Whether the Institution has Registered Alumni Association?

Yes

Guru Nanak Dev University Alumni Association (GNDUAA) was set up in the year 2007. In the beginning, only offline membership facility was available, but now the University has rededicated itself to the cause of the alumni by launching a website to strengthen the relationship with alumni settled in India and abroad. The alumni can register themselves online on this portal (<http://alumni.gndu.ac.in>). The registration is completely free of any charges. After registration, the alumni are provided with unique ID/password to edit/update their information. The website is also updated with the achievements of the alumni and the University from time to time. A section for the Achievers Alumni has also been kept on the website, which provides brief profile of the renowned Alumni. The alumni can also put their views about the University on this website. Thus, the website has become a platform for the alumni to stay together through GNDUAA. The office is regularly collecting the details of alumni from the various departments of GNDU Campus Regional Campuses and updates the list to strengthen the database. As of the total number of 15430 alumni members have registered themselves on the alumni website till date. The alumni of the University have risen to great heights in diverse fields in the country and abroad. They are holding key positions in the Judiciary, IFS, IAS, PCS, Indian Police Services, Central Services, Educational Services and Punjab Civil Services. Our alumni have equally credible achievements in academics occupying the posts of Vice-Chancellors of various Central State Universities and have also excelled in research in their respective fields. The alumni have equally excelled in IT, Pharmaceutical and other top industries and even have attained the top positions in multinational industrial houses and among the top inventors in the world. Alumni are well placed throughout the world serving in prestigious Government and private sectors like Intel, Siemens, GE, Accenture, HAL ISRO, PG, BroadCom, Amazon, ST-Microelectronics many more with pay packages upto Rs. 40 lac. The University is in process to obtain sanction from the government to receive contribution/funds from the alumni settled in India and in foreign countries.

### 5.4.2 – No. of Registered Alumni:

15430

### 5.4.3 – Alumni Contribution during the Year (in Rupees)

0

### 5.4.4 – Meetings/Activities Organized by Alumni Association

The Executive Council of AAGNDU was formed in the year 2015 and new members are being elected for three years. A meeting of the current executive council of AAGNDU has been organized and members participating in the meeting discussed about the current position and progress of AAGNDU and future plans. The members also discussed and evaluated the nominations, for the members required for Executive Council of AAGNDU for 2019-22. The regular meetings were held in office of Dean Alumni with the Alumni Teacher-in-Charges from various Departments under the: - Faculty of Arts Social Sciences, Economics Business, Engineering Technology, Sciences, Life Sciences, Languages, Physical Planning Architecture, Education, Humanities Religious Studies - Faculty of Physical Education, Sports Medicine Physiotherapy, Visual Performing Arts, LAWS - Regional Campuses Jalandhar, Gurdaspur, SathialaFattuDhingha All these meetings helped in making the connectivity between Alumni Teacher-in-Charges and the alumni association. The Office Bearers at Departmental Chapters have again been formed to expedite the working. This will help in making strong relationship with the Alumni.

**CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT****6.1 – Institutional Vision and Leadership****6.1.1 – Mention Two Practices of Decentralization and Participative Management during the Last Year (Maximum 500 Words)**

- *The University follows decentralized management system whereby policy and decisions of the higher authorities of the University are implemented through different Heads of Teaching and Non-Teaching Department.*
- *For the purpose of planning and development of academic, professional and administrative policies, guidelines and norms, the University has constituted different committees whose recommendation are adopted for bettering the quality of education and improving the professionalism among the teachers, administrative and students of the University.*

**6.1.2 – Does the Institution have a Management Information System (MIS)?***Yes***6.2 – Strategy Development and Deployment****6.2.1 – Quality Improvement Strategies adopted by the Institution for each of The Following (with in 100 words each):**

<b>Strategy Type</b>	<b>Details</b>
<i>Examination and Evaluation</i>	<i>Online application launched to keep track of evaluation in different centers. Conferencing facility has been set up in all Evaluation centres for monitoring and surveillance in addition to following: a) Timely opening and closing of evolution Centres is ensured in various cities. b) SMS facility launched to facilitate teachers from different colleges to obtain information regarding assigned duty. c) Problem solving process has been improved. Guidelines are issued regularly by Controller Office and routine meetings are held through video conferencing between Professor In Charge (Examinations) and principals, coordinators of centres and superintendents of various evaluation centres to bring more efficiency. d) Roll numbers and results of the examination can be downloaded by the student from the University's website. The University also conducted online examinations for one semester during the academic year.</i>
<i>Industry Interaction / Collaboration</i>	<i>MoUs with industries and collaborative research with other institutes and industries are being routinely done. Conferences and Workshops in collaboration with industries have been organized. The University also offers consultancy services. Guest lectures, value added programs, modular courses, internships, projects and training programs are also held.</i>
<i>Library, ICT and Physical Infrastructure/</i>	<i>Library: The University Library has a fully air conditioned reading hall for the students which is open 24 hours throughout year.</i>



<p><i>Instrumentation</i></p>	<p><i>Regular alerts are sent to the faculty members and research scholars regarding latest arrivals of books e- journals, new Additions and free trial access from different publishers. ICT Web Site: The University Library has its own web page (<a href="http://library.gndu.ac.in">http://library.gndu.ac.in</a>) which can also be accessed from <a href="http://www.gndu.ac.in">www.gndu.ac.in</a> under the option “Centre/ Facilities”. Web OPAC: Web OPAC is available at: <a href="http://library.gndu.ac.in">http:// library.gndu.ac.in</a>. Access to the books, Ph.D. thesis and Manuscripts is available on this site. The Library has prepared databases of books in English, Hindi and Punjabi Languages. The database is continuously updated when new purchase is done. The library has four Terminals for the readers to use OPAC for their search of books on its first and second Floor. In addition, this facility is also available via Internet within University Campus to benefit the students/ faculty members by giving access to catalogue in their respective departments. CDs of M.Phil. Dissertations and Ph.D. thesis, CDs of books, census reports, and gazette are available in this section. Students, researchers and faculty members can have access to these CDs, e-journals and databases in this section. The University Library is a member of DELNET (Developing Library Network, New Delhi). It helps the faculty members and researchers to procure those books, articles and documents from other educational institutions which are not available in our University Library. The Library is also member of INFLIBNET which is providing 15000 e-Journals. The Library has also an established Electronic Thesis and Dissertations Lab (ETD Lab) which has uploaded more than 900 Ph.D thesis on Shodhganga. Physical Infrastructure /instrumentation: Bhai Gurdas Library has an area of (1, 50,000 sq. ft. 36800 sq. ft.) Area and seating capacity of (500 300).</i></p>
<p><i>Human Resource Management</i></p>	<p><i>The University has an institutionalized process of managing human resources. Teachers are encouraged to academically recharge and rejuvenate through participation in orientation courses, refresher courses, workshops, seminars and conferences. As and when Required, teachers are given appropriate leave such as study leave, duty leave, sabbatical leave, special casual leave for various academic purposes. There is also a provision in the calendar of the University that under certain circumstances the teachers can transform their medical leave into academic leave. The University has also a provision to give travel grants to Teachers so as to enable them to attend national and international seminars/ conferences.</i></p>
<p><i>Admission of Students</i></p>	<p><i>The admission notices for the various courses offered by the University are published in both regional and national newspapers. The University Prospectus is made available on the website of the University with comprehensive information regarding the criteria of admission to various courses, number of seats, dates of filling the admission forms and the deadline for depositing the admission fee.</i></p>



	<i>The applications for admission along with admission fee are submitted online.</i>
<i>Research and Development</i>	<i>The University has a Research Committee responsible for the promotion and development of research. The composition of the committee is as follows: i. Vice- Chancellor (Chairman) ii. Dean, Academic Affairs iii. Director Research iv. Dean, Faculty of Life Sciences v. Dean, Faculty of Sciences vi. Dean, Faculty of Arts Social Sciences vii. Dean, Faculty of Languages The University encourages research by facilitating the implementation of Research Schemes/Projects in a positive and pro-active manner. Interdepartmental research collaborations are also promoted. The University has a strong culture of inviting eminent researchers to enable interaction with their researchers. The University has facilitated the formation of Project Board to help Research and Development.</i>
<i>Curriculum Development</i>	<i>The University adopts a systematic approach for the design and development of curriculum by various bodies i.e. Board of Control (B.O.C)/Board of Studies (B.O.S), Faculty meetings and in Academic Council as per the latest UGC norms. Various Expert Committees are also constituted for the design of new courses. Inputs are also taken from various National Curricular Resources like UGC, AICTE, DST, DBT etc.</i>
<i>Teaching and Learning</i>	<i>With the advent of online teaching due to COVID pandemic, various online tools like google classroom, Swayam, NPTEL etc., are being currently used by teachers for teaching. Students are provided with links to various resource materials to strengthen their understanding. Further, online databases for books in various languages are available in the library. The library also subscribes to various e- journals and e-books and is a member of DELNET (Developing Library Network, New Delhi) which helps the faculty members and researchers to procure those books, articles and documents from other educational institutions which are not available in our University Library.</i>

### 6.2.2 – Implementation of E-Governance in Areas of Operations

<b>E-Governance Area</b>	<b>Details</b>
<i>Student Admission and Support</i>	<i>The admission process to various courses is being conducted online and the results for the various entrance exams held for the same are also displayed on the University's website. The students can also apply for the on campus hostel accommodation online. The academic as well as hostel fees can be paid online through various modes. DMCs of students are available on the University's website. The students can also file their grievances or apply for transcript through the University's website.</i>
<i>Administration</i>	<i>A File Tracking System (FTS) is being used by the University to</i>



	<i>track the status of various files. Also the process of stock entries and purchase has been made online. A separate portal for employee data has been developed in house and the employees can get information from the same. Various administrative decisions are being disseminated through emails.</i>
<i>Examination</i>	<i>Roll numbers are issued to the students through online mode. The private students are also intimated about their examinations through this mode. Results for the various courses are posted on the University's website.</i>

### 6.3 – Faculty Empowerment Strategies

#### 6.3.1 – Teachers Provided with Financial Support to Attend Conferences/ Workshops and Towards Membership Fee of Professional Bodies during the Year

Year	Name of Teacher	Name of Conference/ Workshop Attended for Which Financial Support Provided	Name of the Professional Body for which Membership Fee is Provided	Amount of Support
2020	Mandeep Singh	International Conference on Advances Materials and Nanotechnology Lamn 2020 at Noida	NA	8029
2020	Parminder Kaur	53rd Annual Convention 2020 on International Conference on digital Democracy IT for change at Bhubaneswar	NA	19251
2020	Vasudha Sambyal	Annual Conference of Indian association for cancer research 2020 at Kerala	NA	10000
2019	Sachin Kumar	3rd International Conference on condensed matter and applied Physics, Bikaner	NA	16402
2019	Rajdeep Singh Sohal	Short term course 5g communication at Ropar	NA	7420
2020	Kamlesh Guleria	Annual Conference of Indian association for cancer research 2020 at Kerala	NA	10000
2020	Nareshpal Singh Saini	34th National Symposium on Plasma Science Technology at Chennai	NA	10000
2020	Puja Ohri	National Symposium on nema todes a threat to food security and farmers livelihood held at Manipur	NA	10000
2020	Jaspreet Kaur	International Conference on Advancement and futuristic trends in mechanical and materials engineering (AFTMEE2019) IIT Ropar	NA	9482



<b>6.3.2 – Number of Professional Development/ Administrative Training Programmes Organized by the University for Teaching and Non-Teaching Staff during the Year</b>						
<b>Year</b>	<b>Title of the Professional Development Programme Organized for Teaching Staff</b>	<b>Title of the Administrative Training Programme Organized for Non-teaching Staff</b>	<b>From Date</b>	<b>To Date</b>	<b>Number of Participants (Teaching Staff)</b>	<b>Number of Participants (Non-teaching Staff)</b>
<i>Refer Annexure - XXX</i>						

<b>6.3.3 – No. of Teachers Attending Professional Development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the Year</b>				
<b>Title of the Professional Development Programme</b>	<b>Number of Teachers who Attended</b>	<b>From Date</b>	<b>To Date</b>	<b>Duration</b>
<i>Refer Annexure - XXXI</i>				

<b>6.3.4 – Faculty and Staff Recruitment (No. for Permanent Recruitment)</b>			
<b>Teaching</b>		<b>Non-teaching</b>	
<b>Permanent</b>	<b>Full Time</b>	<b>Permanent</b>	<b>Full Time</b>
248	532	862	862

<b>6.3.5 – Welfare Schemes for</b>		
<b>Teaching</b>	<b>Non-teaching</b>	<b>Students</b>
<ul style="list-style-type: none"> <li><i>The University has initiated various welfare schemes, like the group insurance scheme under which a very small amount of money is deducted from the salary, but at the time of illness of the employee lump sum money is given to him/her.</i></li> <li><i>The University’s Medical Committee periodically diagnoses the employees who suffer from chronic illnesses such as diabetes, hypertension, etc. and provide reimbursement of their expenses on medicines.</i></li> <li><i>In addition, provision of various kinds of loans exists in the University for example, house construction loan, loan</i></li> </ul>	<ul style="list-style-type: none"> <li><i>The University has initiated various welfare schemes, like the group insurance scheme under which a very small amount of money is deducted from the salary, but at the time of illness of the employee lump sum money is given to him/her.</i></li> <li><i>The University’s Medical Committee periodically diagnoses the employees who suffer from chronic illnesses such as diabetes, hypertension, etc. and provide reimbursement of their</i></li> </ul>	<ul style="list-style-type: none"> <li><i>In the office of the Director, Youth Welfare regular cultural programmes are organised in the campus and Director Youth welfare looks after the cultural activities in coordination with the office of Dean Students’ Welfare.</i></li> <li><i>An Inter-departmental cultural festival Jashan is organised every year. The University boasts of the availability of the best sports facilities for the students. Twenty four hours services of Health Centre are available to the students for any medical issues.</i></li> </ul>



<p>for purchase of vehicle, and class IV employees are given loan to buy food grains after Rabi crops are harvested.</p> <ul style="list-style-type: none"> <li>The University also provides the interest free loan from the Provident Fund of the concerned employee in cases of emergencies.</li> </ul>	<p>expenses on medicines.</p> <ul style="list-style-type: none"> <li>In addition, provision of various kinds of loans exists in the University for example, house construction loan, loan for purchase of vehicle, and class IV employees are given loan to buy food grains after Rabi crops are harvested.</li> <li>The University also provides the interest free loan from the Provident Fund of the concerned employee in cases of emergencies.</li> </ul>	<ul style="list-style-type: none"> <li>Various types of Scholarships are also offered to the University students: Grant of Full Fee/Half Fee Concession, Grant of Facilities to physically handicapped students, Sports incentives, Employee ward Concession, Brother-Sister Concession, Riots affected/ terrorist affected Concession, Full Fee and Funds Concession to very poor students, Fee Concession to Children of Gallantry Award Winner and Poor Aid Fund.</li> </ul>
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#### 6.4 – Financial Management and Resource Mobilization

##### 6.4.1 – Institution Conducts Internal and External Financial Audits Regularly (with in 100 words each)

Yes! Accounts of the University were audited by the Local Audit Department, Government of Punjab. External Audit/ Post Audit of accounts is also carried out by the CAG Punjab and New Delhi from time to time.

##### 6.4.2 – Funds / Grants Received from Management, Non-Government Bodies, Individuals, Philanthropies during the Year (not covered in Criterion III)

Name of The Non-government Funding Agencies /Individuals	Funds/ Grants Received in Rs.	Purpose
<i>Nil</i>	<i>0</i>	<i>Nil</i>

##### 6.4.3 – Total Corpus Fund Generated

*0*

#### 6.5 – Internal Quality Assurance System

##### 6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
<i>Academic</i>	<i>Yes</i>	<i>NAAC</i>	<i>Yes</i>	<i>Internal Authority</i>
<i>Administrative</i>	<i>Yes</i>	<i>NAAC</i>	<i>Yes</i>	<i>Internal Authority</i>



**6.5.2 – What Efforts are made by the University to Promote Autonomy in the Affiliated/Constituent Colleges? (if applicable)**

*In order to promote autonomy to affiliated /constituent colleges, appropriate support and encouragement is provided both at the academic as well as administrative end. The University interacts with the affiliated colleges through the mediation of the College Development Council which is headed by the Dean. Meetings of the Council are held periodically. The University remains in constant touch with its affiliated colleges and informs and encourages them to apply for various grants. For the development of the curriculum for these colleges, the participation of the college faculty is ensured. The University has been encouraging the colleges to apply for the autonomous status.*

**6.5.3 – Activities and Support from the Parent – Teacher Association (at least three)**

- *Parents are routinely informed regarding their wards about their attendance in each course they are taking up.*
- *They are also requested to visit the University as and when the need arises regarding the conduct of their wards.*
- *The parents visiting the department are fully entertained for the enquiries about the performance and conduct of their ward.*

**6.5.4 – Development Programmes for Support Staff (at least three)**

- *Training programme regarding online working.*
- *In-house training courses for computer application.*
- *Short term course for non-teaching employees organized by the Human Resource Development Centre of the University.*

**6.5.5 – Post Accreditation Initiative(s) (mention at least three)**

- *New courses developed dependent on needs regularly*
- *The nomenclature of courses on the Degree certificates is in conformity with the UGC guidelines.*
- *Introduction of various inter-disciplinary courses as value-added courses to enhance the learning of the students.*
- *System developed for collecting and analyzing the student feedback system through online mode.*
- *Industry/Employers/Alumni are made part of the Board of Control to obtain feedback regarding improvement of curriculum.*
- *Need based system for remedial classes is being offered.*
- *Provisions for lifts, ramps and restrooms have been made available for differently-abled students and staff wherever required on priority basis.*
- *Modern methods of teaching and learning like smart classes have been initiated.*
- *Collaborations with industries and academic institutes worldwide have been facilitated and MoUs signed.*
- *Teaching laboratories for the PG students have been upgraded.*
- *ICT facilities all over the campus have been improved.*
- *A mentoring system for students to get support in academia as well as co-curricular activities has been established.*
- *The IQAC team meets regularly and documents its activities systematically.*
- *A major initiative to harness solar energy has begun.*



<b>6.5.6 – Internal Quality Assurance System Details</b>	
<b>a) Submission of Data for AISHE portal</b>	<i>Yes</i>
<b>b) Participation in NIRF</b>	<i>Yes</i>
<b>c) ISO certification</b>	<i>Yes</i>
<b>d) NBA or any other quality audit</b>	<i>Yes</i>

<b>6.5.7 – Number of Quality Initiatives Undertaken during the Year</b>					
<b>Year</b>	<b>Name of Quality Initiative by IQAC</b>	<b>Date of Conducting</b>	<b>Duration</b>		<b>Number of Participants</b>
			<b>From</b>	<b>To</b>	
2019	<i>NAAC Sponsored Orientation Programme</i>	<i>27/08/2019</i>	<i>27/08/2019</i>	<i>27/08/2019</i>	<i>44</i>
2020	<i>Rating/ Accreditation as a Tool for Improvement in Quality of Higher Education</i>	<i>24/02/2020</i>	<i>24/02/2020</i>	<i>24/02/2020</i>	<i>75</i>

**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES****7.1 – Institutional Values and Social Responsibilities****7.1.1 – Gender Equity (Number of Gender Equity Promotion Programmes Organized by the Institution during the Year)**

Title of the Programme	Period From	Period To	Number of Participants	
			Female	Male
<i>Gender Sensitization</i>	<i>05/02/2020</i>	<i>11/02/2020</i>	<i>3</i>	<i>22</i>

**7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy Initiatives such as Percentage of Power Requirement of the University met by the Renewable Energy Sources**

*The University has initiative installation of rooftop solar energy plant of 3 Mega Watt Capacity under Government of India Jawaharlal Nehru National Solar Mission (JNNSM). Out of this University will be able to utilize 1.4 Mega Watt of solar energy to its 3 Mega Watt sanctioned load hence percentage of power requirements of University met by the Renewable energy resource comes out the 49.3 which is the Maximum which the University can use.*

*Also, e-vehicles facility have been introduced free of cost to the faculty, staff, students and the residents of the University within its campus.*

*Faculty and students are sensitized about the environmental aspects with regard to the Sustainable Development Goals and Targets as prescribed by the United Nations. Tree plantation drives are undertaken during different times in the year.*

**7.1.3 – Differently Abled (Divyangjan) Friendliness**

Item Facilities	Yes/No	Number of Beneficiaries
<b>Physical facilities</b>	<i>Yes</i>	<i>38</i>
<b>Provision for lift</b>	<i>Yes</i>	<i>38</i>
<b>Ramp/Rails</b>	<i>Yes</i>	<i>38</i>
<b>Braille Software/facilities</b>	<i>Yes</i>	<i>38</i>
<b>Rest Rooms</b>	<i>Yes</i>	<i>38</i>
<b>Scribes for examination</b>	<i>Yes</i>	<i>38</i>
<b>Special skill development for differently abled students</b>	<i>Yes</i>	<i>38</i>

**7.1.4 – Inclusion and Situatedness**

Year	Number of Initiatives to Address Locational Advantages and Disadvantages	Number of Initiatives Taken to Engage with and Contribute to Local Community	Date	Duration	Name of Initiative	Issues Addressed	Number of Participating Students and Staff
<i>Refer Annexure - XXXII</i>							

**7.1.5 – Human Values and Professional Ethics Code of Conduct (Handbooks) for Various Stakeholders**

<b>Title</b>	<b>Date of Publication</b>	<b>Follow up (max 100 words)</b>
<i>Human Values and Professional Ethics</i>	<i>31/07/2019</i>	<i>The University is following the Human Values and Code of Ethics since its establishment. They present the duties, functions and responsibilities of the administrative authorities, administrative staff, teachers and student of the University, its regional campuses and constituent colleges. Human Values and Code of Ethics are executed in the University to maintain efficiency, inclusivity, discipline, harmony and compassion in its administrative and academic environs. The effort is to produce quality research and students that benefit the whole society for its welfare.</i>

**7.1.6 – Activities Conducted for Promotion of Universal Values and Ethics**

<b>Activity</b>	<b>Duration From</b>	<b>Duration To</b>	<b>Number of Participants</b>
<i>Refer Annexure – XXXIII</i>			

**7.1.7 – Initiatives taken by the Institution to make the Campus Eco-friendly (at least five)**

<ol style="list-style-type: none"> <li><i>1. Zero Waste Campus: The University has developed its system to manage solid waste by extracting the reusable article from the solid waste. Almost 40 of such reusable article go back to the Industry for producing recycle products.</i></li> <li><i>2. Steps to make GNDU a vehicle free University have been initiated. With this, the entry of four wheelers has been banned on campus. Boom Barriers at various entry points to the University have been installed to regulate traffic and two new parking lots have been constructed at both entry gates for the convenience of students and visitors where parking can be done at very nominal parking rates. An agreement has been signed with Hero Group wherein they have started providing bicycles at very nominal charges (including maintenance cost) for use within campus.</i></li> <li><i>3. Plantation Drive: GNDU organizes a plantation drive throughout the academic year. Students are encouraged to plant at least one plant and nurture it for 6 months under the guidance of Consultant Horticulture and Head, Botanical Sciences. A group of students volunteer have taken initiative for the same.</i></li> <li><i>4. The agriculture waste of the University such as tree leaves are converted into manure through organic process.</i></li> <li><i>5. Ban on single-use plastics.</i></li> <li><i>6. To promote awareness about eco-friendliness flower plants show and seminar are organized.</i></li> <li><i>7. Face masks used during COVID-19 are treated as biowaste and separate discard bins for the same are placed all over the University so that they are not mixed with regular waste.</i></li> </ol>
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## 7.2 – Best Practices

### 7.2.1 – Describe at least two Institutional Best Practices

#### **Inter-Disciplinary Research by Establishing Centre Under RUSA 2.0**

Guru Nanak Dev University has established three Centres namely the Centre for Agricultural Research and Innovation (CARI), the Centre for Basic and Translational Research in Health Sciences (CBTRHS) and the Centre for Sustainable Habitat (CSH) in 2019 under component 4 of Rashtriya Uchchattar Shiksha Abhiyan (RUSA 2.0). The major focus of the Centres is to build a world-class ecosystem for promoting cross/ inter-disciplinary research and translate it into innovative and meaningful practices in the field of agriculture, health, environment and built habit for the benefit of society. The Centres act as catalysts to support research and innovation by providing resources to investigators, staff, scholars, trainees, and other stakeholders.

CARI has the mandate to integrate research and outreach education in agriculture, food systems and the environment to establish an ecologically and economically sustainable model. Eight inter-disciplinary projects have been sanctioned to the faculty of different departments of the University to conduct research in the area of agriculture and food sector. Also, seven post-doctoral fellows have been hired to work on the focus area of the Centre. It also intends to engage with progressive farmers of the region to know about their problems and expectations to develop region-specific sustainable solutions.

CBTRHS aims to translate fundamental research and ideas into meaningful practices in the area of health sciences. Fifteen inter-disciplinary research projects have been sanctioned to the faculty of ten departments of the University. The centre is also in process of developing a centralized facility in the Emerging Life Science Building to provide a centralized resource dedicated to facilitating biomedical research to promote multi-disciplinary basic and translational research and foster long term collaboration between clinicians and basic science researchers.

CSH is established in the University to propagate the agenda of sustainability in line with the Sustainable Development Goals purposed by the United Nations for quality living education, clean water and sanitation, affordable and green energy, sustainable cities and communities and climate action. Inter-disciplinary research is intended to address the key challenges of sustainable habitat, environment and ecology, socio-economic characteristics to help in formulating workable, achievable and rational planning and management policies and strategies at the local and regional levels that reduce our planetary footprint, emissions, resource consumption and waste, and improves the quality of life for all. State-of-art centralized design, transport, water and air and noise pollution labs are established to facilitate eleven inter-disciplinary research projects awarded to the faculty of different departments of the University. Three post-doctoral fellows have been hired to conduct multi-faceted research.

All the Centres have signed MoUs with the organizations of national and international repute and have established a very strong advisory board to bring new knowledge, technology and opportunities suiting to the mandate of the respective Centre.

#### **Augmentation of Digital Initiatives in COVID Times**

The University has undertaken many digital initiatives in line with the Digital India Programme of the Government of India. Also, the existing digital initiatives have been strengthened for improved academics and administrative matters. The Internet Bandwidth Scheme of GNDU Campus is increased from 10 Mbps to 1Gbps through National Knowledge Network (NKN) to ensure fast and high-quality internet connectivity for the students of GNDU. SMS system has been introduced to keep parents of the campus students updated about their attendance. Centre for IT Solutions is playing an important role in the development and deployment of various software applications in various branches of the University. It has also initiated the integration of already working software applications on a single platform to manage the data in a centralized data repository so as to meet the vision of University authorities. A file tracking



system is launched to speed up the process of case approvals and applications. The University has taken an important initiative to establish an in-house “Hardware Cell” and “Internet Maintenance Cell” to handle day-to-day hardware and internet-related issues. 24/7 internet connectivity is ensured to facilitate the teachers, research scholars and students of the University to perform their educational activities effectively and efficiently.

During the pandemic period, the biggest challenge for any Institute was to conduct online classes as well as to conduct online examinations. University has built up a platform using google suite for education to conduct online classes using google meet as well as google classroom. More than 10000 students’ official IDs were created along with faculty members for the smooth functioning of classes. Faculty members have prepared their presentations and used live board for teaching. Internet bandwidth, as well as Campus-wide Network, are the main concern to run this platform, in this regard, the university bandwidth is upgraded to 1 GBPS (1:1) as well a new 10G campus-wide network has been established. Many teachers have recorded their practical videos which are shared with students to fulfil their needs. Online examinations have been conducted for exit classes to declare their results in time. E-books as well e-journals are procuring by the University to give its access to the students at their homes. Video conferencing facilities equipped with media rooms have been prepared to handle online meeting with government officials. Many Online National level Webinars/conferences have been conducted during this period.

**Upload Details of Two Best Practices Successfully Implemented by the Institution as per NAAC Format in your Institution Website, Provide the Link**

<http://online.gndu.ac.in/pdf/201920BestParcticesAQAR.pdf>

**7.3 – Institutional Distinctiveness**

**7.3.1 – Provide the Details of the Performance of the Institution in One Area Distinctive to its Vision, Priority and Thrust in not more than 500 words**

*GNDU initiated the University-Industry Linkage Program that is in fact a source of educational upheaval, inspiration, and establishment of industrial linkages between the industries and Guru Nanak Dev University(GNDU). Industries of all kinds including oil and gas, refineries, pharmaceuticals, telecommunications, defense production, textiles, bioremediations, heavy mechanical industries, and renewable and cleaner energy, etc. are the backbone for boosting the economic growth of a country. UILP plays a pivotal role in establishing industrial linkages with universities. GNDU is pursuing the noble mission of imparting quality education in a value-adding environment that grooms students to become responsible citizens of society. We at GNDU are progressively working to build sound traditions of research and teaching on all our academic programs. We offer diversified and well-thought-out programs of study supported with elaborate state of the art facilities. The University-Industry Linkage Programme (UILP) has been established to operate as a catalyst towards engaging with the industry order to address the needs of both the industry and the university. UILP is the gateway for the industry and university to seek new opportunities to complement each other and to develop talents suitable for current industry needs. UILP opens the door for industries to link with GNDU by way of offering industrial training, internships, and hiring opportunities. Industries can share and contribute their expertise in developing human capital by partnering with the university through programs that help nurture and prepare students to make them relevant to the industries.*

**Provide the web link of the institution**

<http://online.gndu.ac.in>



### **8. Future Plans of Actions for Next Academic Year**

*The University strives to introduce new courses having high employability potential in diversified areas of Life Sciences, Sciences, Professionals, Engineering Technology and Humanity discipline also. The University is taking initiative to make maximum utilization of e-resources in its Administrative, Academic and Evaluation Processes. Smart classroom and e-learning resources will be introduced to attain high quality research and development along with quality of education. Practices and augmentation of state of arts, sports, cultural and other curriculum facilities is an important agenda of the University for overall personality development of student of the University.*

# *Annexures*

**Annexure-I****Special Status Conferred by Central/ State Government-UGC/CSIR/  
DST/DBT/ICMR/TEQIP/World**

Sr.No	Institution/Department/ Faculty	Scheme	Funding	Year of Award	duration in days	Amount Sanctioned (in Lakhs)
1	Food Science & Technology	FIST Program	DST	2019	1825 days	216
2	Director Sports	NSDF	MYAS	2019		100
3	Biotechnology	DISC	DBT	2016-20	1825 days	42
4	UGC-HRDC	HRDC	UGC	2019-20	365 days	42
5	Biotechnology Department	DBT supported M.Sc. BioTech teaching prog	Center Govt.	2019-20	365 days	32
6	Biotechnology Department	DBT supported PG Teaching Prog. In BioTech.	Center Govt.	2019-20	547 days	17
7	Chemistry Department	CAS-II	UGC	2019-20	365 days	439
8	Director Sports (Synthetic Athletic Track)	KHELO INDIA	MYAS	2019-20	-	700
9	Construction of 200 Bedded Hostel (one for Men & one for Women)	KHELO INDIA	MYAS	2019-20	-	1120
10	Grant for Celebration of 550th Birth Anniversary of Sh. Guru Nanak Dev Ji	-	UGC	2019-20	-	4911
11	University with Potential for Excellence	UPE	UGC	2012	2920 days	3000
12	Quality and Excellence in Select State Universities	RUSA 2.0	MHRD & Punjab Govt.	2019	730 days	1000
13	Faculty Development Program	RUSA 2.0	MHRD & Punjab Govt.	2020	730 days	700

**Annexure-II****Composition of IQAC****Revised Composition of the IQAC**

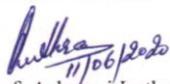
(2020-21)

The following Committee for Internal Quality Assurance Cell (IQAC) is proposed for the period of 01.04.2020 to 31.03.2021.

<b>Chairperson (Head of Institute)</b>	Prof. Jaspal Singh Sandhu (Vice Chancellor)
<b>Administrative Officers:</b>	Prof. Sarabjot Singh Behl (Dean Academic Affairs)
	Prof. Karanjeet Singh Kahlon (Registrar)
	Prof. Hardeep Singh (Dean Students' Welfare)
<b>Faculty Members</b>	Prof. Sandeep Sharma, Department of Computer Engineering & Technology
	Prof. Manoj Kumar, Department of Chemistry
	Prof. Sukhprit Singh, Department of Chemistry
	Prof. Preet Mohinder Singh Bedi, Department of Pharmaceutical Sciences
	Prof. Pratap Kumar Pati, Department of Biotechnology
	Prof. Shweta Shenoy, MYAS GNDU Department of Sports Sciences and Medicine
	Prof. Amandeep, Department of History
<b>Management Member</b>	Prof. Sudha Jatinder, Department of Hindi (Syndicate Member)
<b>Nominees from local Society/ Students/ Alumni:</b>	Dr. Inderjit Kaur, Chairperson, All India Pingalwara Society, Amritsar. (Nominee from local Society)
	Ms. Palak Bakshi, Ph.D Scholar, Department of Botanical & Environmental Science (Nominee from Students)
	Dr. Rajesh Kumar, Principal DAV College Amritsar (Nominee from Alumni)
<b>Nominees from Employers /Industrialists/stakeholders:</b>	Mr Puneet Kumra, Director   Talent Acquisition Capgemini India, A-1, Technology Park, MIDC, Talwade, Pune (Nominee from Employers)
	Mr Jaideep Singh, Chartered Accountant, 1, Mall Road, Novelty Chowk, Amritsar (Nominee from Industrialists)
	Mr. Namit Juneja, Advocate, Amritsar (Nominee from Stakeholders/Parents)
<b>Director IQAC (Member Secretary)</b>	Prof. Ashwani Luthra, Department of GRD School of Planning
<b>Assistant Directors (IQAC)</b>	Dr. Tejwant Singh Kang, Department of Chemistry Dr. Gagandeep Kaur Gahlay, Department of Molecular Biology and Biochemistry Dr. Rekha Handa, University Business School Dr. Aditya Sunkaria, Department of Biotechnology

DAA

12/6

  
11/06/2020  
Prof. Ashwani Luthra  
Director Director IQAC  
Internal Quality Assurance Cell  
Guru Nanak Dev University  
Amritsar-143005

**Vice- Chancellor**



### Annexure-III

#### IQAC Meetings



## GURU NANAK DEV UNIVERSITY INTERNAL QUALITY ASSURANCE CELL (IQAC)

### Proceeding

A meeting was held in the Office of Worthy Vice Chancellor on 23<sup>rd</sup> September 2019 at 03:00 pm. Following members were present:

1. Prof. Jaspal Singh Sandhu, Vice Chancellor, Chairperson IQAC
2. Prof. Sarabjot Singh Behl, Dean Academic Affairs
3. Prof. Hardeep Singh, Dean Students' Welfare
4. Prof. Manoj Kumar, Department of Chemistry
5. Prof. Sukhprit Singh, Department of Chemistry
6. Prof. Preet Mohinder Singh Bedi, Department of Pharmaceutical Science
7. Prof. Pratap Kumar Pati, Department of Biotechnology
8. Prof. Amandeep, Department of History
9. Prof. Kuldeep Kaur, Syndicate Member
10. Ms. Palak Bakshi, Ph.D Scholar, Nominee from Students
11. Prof. Renu Bhardwaj, Director IQAC
12. Dr. Tejwant Singh Kang, Assistant Director IQAC
13. Dr. Gagandeep Kaur Gahlay, Assistant Director IQAC

At the outset, Director cum Member Secretary IQAC, Prof. Renu Bhardwaj welcomed esteemed Vice Chancellor Prof. Jaspal Singh Sandhu and all members of the Cell. The following Achievements/Activities of IQAC were discussed and approved:

#### A. Data filling and updation of various portals:

Data was filled and updated at following MHRD & Punjab Government Portals; All India Survey on Higher Education (AISHE)- MHRD Portal, Atal Ranking of Institutions on Innovation Achievements (ARIIA)-MHRD Portal, Study in India (SII)- MHRD Portal, SAMBAND Portal – Punjab Government, RUSA- Management Information System (MIS) Portal – Punjab Government, RUSA-National Higher Education Resource Centre (NHERC) Portal – Punjab Government, Sustainable Development Goals Four Year Strategic Action Plan (2019-23), Department of Higher Education– Punjab Government.

#### B. Rankings/Ratings of the University:

1. The University got 55<sup>th</sup> rank in University ranking and 81<sup>st</sup> rank in overall ranking of NIRF-India Ranking 2019

University Ranking	Overall Ranking
55	81

2. In THE WEEK-HANSA Research-Best University Survey Ranking- 2019 University received following ranks

Multi-Disciplinary Universities –All India Rank	Multi-Disciplinary Universities –North Zone
14	7

3. In India Today Group-MDRA Best Universities Ranking 2019 University got 17<sup>th</sup> rank among Overall Ranking General Government University.
4. Certificate of Participation in Atal Ranking of Institutions on Innovation Achievements (ARIIA)- MHRD Ranking 2019 has been received.
5. University participated in Swachh Campus Ranking 2019- MHRD.



C. MoU was signed between GNDU and EdCIL (India) Limited, a Central Public Sector Enterprise (CPSE) under MHRD, implementing partner for Study in India (SII), a program under Ministry of Human Resource Development, Government of India on 10 January 2019.

**D. Participation in Workshops:**

1. All India Survey on Higher Education (AISHE)- MHRD on 8<sup>th</sup> February 2019 at New Delhi regarding Survey and Data Capture Format.
2. Workshop held at Chitkara University, Rajpura, Punjab on 12<sup>th</sup> Jan 2019.  
The workshop covered different initiatives of **MHRD Innovation Cell (MIC)** and session on Atal Ranking of Institutions on Innovation Achievement (ARIIA).
3. Workshop on India in Top 100 jointly organised by AIU & QS on August 09, 2019 at AIU House, New Delhi
4. National workshop for the SII Partner Institutes conducted at Bengaluru on 30<sup>th</sup> August 2019
5. Online Webinar conducted by QS on Skype on 18 July 2019

E. **Admission of Foreign Students:** Under Study in India (SII) program for Session 2019-20 University received 184 UG and 45 PG courses applications. 20 Foreign/NRI students have been admitted in various courses. Students are from Kenya, Nigeria, Afghanistan, Bangladesh and Canada.

F. **NAAC Workshop Conducted:** IQAC organised workshop on Assessors Orientation Program (AOP) sponsored by NAAC, Bengaluru and New Delhi at University on 27.08.2019

G. **In progress:** NIRF India Ranking 2020, AQAR 2018-19, AISHE 2019-20, ARIIA 2020

The meeting concluded with vote of thanks to the Chair by Dr. Gagandeep Kaur Gahlay, and the members applauded the Office of IQAC for timely submission of all the surveys/documents/reports to various agencies.

Prof. Renu Bhardwaj

Director cum Member Secretary IQAC

Director  
Internal Quality Assurance Cell  
Guru Nanak Dev University  
Amritsar-143005



## GURU NANAK DEV UNIVERSITY INTERNAL QUALITY ASSURANCE CELL (IQAC)

### Proceeding

A meeting was held in the Office of Worthy Vice Chancellor on **24<sup>th</sup> January 2020** at 11:00 am. Following members were present:

1. Prof. Jaspal Singh Sandhu, Vice Chancellor, Chairperson IQAC
2. Prof. Sarbjot Singh Behl, Dean Academic Affairs
3. Prof. Karanjeet Singh Kahlon (Registrar)
4. Prof. Hardeep Singh, Dean Students' Welfare
5. Prof. Geeta Hundal, Department of Chemistry
6. Prof. Manoj Kumar, Department of Chemistry
7. Prof. Sukhprit Singh, Department of Chemistry
8. Prof. Preet Mohinder Singh Bedi, Department of Pharmaceutical Science
9. Prof. Pratap Kumar Pati, Department of Biotechnology
10. Prof. Shweta Shenoy, MYAS GNDU Department of Sports Sciences and Medicine
11. Prof. Amandeep, Department of History
12. Prof. Kuldeep Kaur, Department of Punjab School of Economics, (Syndicate Member)
13. Dr. Tejwant Singh Kang, Assistant Director IQAC

At the outset, Director cum Member Secretary IQAC, Prof. Renu Bhardwaj welcomed esteemed Vice Chancellor Prof. Jaspal Singh Sandhu and all members of the Cell. The following Achievements/Activities of IQAC were discussed and approved:

#### A. Data filling and updation of various portals:

Data filling at following Portals;

1. NIRF 2020- Submitted
2. All India Survey on Higher Education (AISHE)- MHRD Portal- In progress
3. India Today 2020- In progress
4. QS-IGauge Rating 2020- In progress
5. AIU Portal- In progress

**B. Rankings/Ratings of the University:** Swachh Campus Ranking 2019- MHRD Guru Nanak Dev University got Second position among Government Universities

**C. Participation in Workshops:** Study in India (SII) at FICCI Higher Education Summit & Exhibition (HES) 27-29 November 2019 New Delhi

#### D. Grants:

1. Punjab Government released Rs 80,000 for conduct of AISHE activities
2. SII-International Hostel; Information submitted for grant of SII International Hostel

Prof. Renu Bhardwaj  
Director cum Member Secretary IQAC  
Director  
Internal Quality Assurance Cell  
Guru Nanak Dev University  
Amritsar-143005



## INTERNAL QUALITY ASSURANCE CELL

Guru Nanak Dev University, Amritsar – 143 005 (India)

(Established by the State Legislature Act No. 21 of 1969)

Accredited at 'A++' grade (highest level as per modified criteria) by NAAC and Conferred University with Potential for Excellence' status by UGC

Desk : 0183-2255603  
PABX : 0183-2258802-09 &  
2450601-14  
Extn. 3177  
Fax : 0183-2258819-20  
Mobile : 8146557234  
Email : iqac@gndu.ac.in

**Dr. Ashwani Luthra**  
Director

### Proceedings

A meeting of the IQAC committee was held in the Office of Worthy Vice Chancellor on **15<sup>th</sup> July 2020** at 11:00 am. Following members were present:

1. Prof. Jaspal Singh Sandhu, Vice Chancellor-Chairperson
2. Prof. Sarabjot Singh Behl, Dean Academic Affairs
3. Prof. Hardeep Singh, Dean Students' Welfare
4. Prof. Ashwani Luthra, Director IQAC-Member Secretary
5. Prof. Manoj Kumar, Department of Chemistry
6. Prof. Sukhprit Singh, Department of Chemistry
7. Prof. Preet Mohinder Singh Bedi, Department of Pharmaceutical Science
8. Prof. Pratap Kumar Pati, Department of Biotechnology
9. Prof. Amandeep, Department of History
10. Prof. Sudha Jatinder, Syndicate Member
11. Prof. Kapil Goel, (Nominee) Principal DAV College, Amritsar
12. Dr. Tejwant Singh Kang, Assistant Director IQAC
13. Dr. Gagandeep Kaur Gahlay, Assistant Director IQAC
14. Dr. Rekha Handa, Assistant Director IQAC
15. Dr. Aditya Sunkaria, Assistant Director IQAC

At the outset, Member Secretary IQAC Committee, Prof. Ashwani Luthra welcomed esteemed Vice Chancellor Prof. Jaspal Singh Sandhu and all the members of the Committee. Member Secretary apprised about the following activities and achievements of the IQAC for the period January 1 to June 30<sup>th</sup> 2020.

#### A. Data Filling for Various Portals:

Data was filled on the portals of the following agencies such as;

- 1) India Today 2020
- 2) QS-IGAUGE Rating 2020
- 3) All India Survey on Higher Education (AISHE)
- 4) The Week 2020
- 5) Study in India (SII) Portal: Scholarship, admission for session 2020-21

The results of the above are awaited.

#### B. Rankings/Ratings of the University:

The members were informed about the rankings/rating of the University in the following.

1. The University secured 51<sup>st</sup> rank in University ranking and 88<sup>st</sup> rank in overall ranking of NIRF-India Ranking 2020
2. In the Education World 2020 Rankings, the University secured 26<sup>th</sup> rank among Government Institutes.
3. In the Centre for World University Ranking (CWUP), the University stands among top 10 State Public Universities.



4. In the Nature Index (1<sup>st</sup> May 2019- 30<sup>th</sup> April 2020), the University secured a position among the top 4 Institutes in Punjab and top 10 in North India.

**C. Organisation of Seminar/Workshops:**

The members were informed that IQAC in collaboration with QS-IGAUGE organised a workshop on “Rating/Accreditation as a Tool for Quality Improvement” on 24<sup>th</sup> February 2020, which was attended by several teachers from various colleges of Punjab.

**D. Participation in Seminars/Workshops:**

The members were informed that Dr. Renu Bharadwaj and Dr. Pratap Kumar Patti attended the “Study in India (SII) Partner Institute” workshop under Study in India (SII) program as delegates of the University organized in New Delhi on 10<sup>th</sup> February 2020.

**E. Ongoing Activities:**

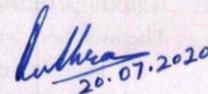
The members were also apprised of the following ongoing activities being undertaken by IQAC:

1. Compilation of the Annual Quality Assurance Report (AQAR) 2018-19.
2. Completion of Annual Report 2018.
3. Compilation of information for “Performance Audit on Outcome of Higher Education in Punjab”.
4. Compilation of the CARE Journal list for which the meeting is scheduled on 16<sup>th</sup> July 2020.
5. Organisation of a webinar on “Awareness about NAAC Assessment and Accreditation Process” to be held on 30<sup>th</sup> July 2020.
6. Preparation of the IQAC website.
7. Preparation of a comprehensive questionnaire for future use.
8. 506 foreign students have shown interest for admission in the various programs in the University for the 2020-21 academic year under the Study in India Program.
9. Constitution of the members for the Self Study Report for NAAC accreditation which is due in December 2021.

**F. The following Recommendations were made by the IQAC Committee:**

1. It was proposed by the IQAC Committee that the reporting time for the Annual Report of the University may be modified from calendar year (January – December) to academic year (July to June) to bring consistency with the Annual Quality Assurance Report (AQAR) of the University
2. The Committee also recommended the appointment of IQAC Teacher-in-charge for each department to aid in the process of data collection in line with the requirement of IQAC office.
3. It was decided that the comprehensive questionnaire, which is currently being prepared by IQAC team, should be circulated among members for their feedback before finalizing using it for data collection through different portals of the University

The meeting concluded with vote of thanks.

  
20.07.2020

Prof. Ashwani Luthra  
Member Secretary IQAC  
Director  
Internal Quality Assurance Cell  
Guru Nanak Dev University  
Amritsar-143005



**Annexure-IV**  
**Programme for which Syllabus Revision was Carried out during Academic Year 2019-20**

Sr. No.	Name of the Programme	Programme Code	Programme Specialization	Date of Revision
1	BTech	CYL	Textile Processing Technology	18.02.2019
2	MSc	CYL	Applied Chemistry (Pharma)	18.02.2019
3	MSc (HS) (Chemistry)	CYL	Chemistry	18.02.2019
4	MSc (Chemistry)	CYL	Chemistry	18.02.2019
5	MSc (HS) (Physics)	PHL	Physics	18.02.2019
6	MSc (Physics)	PHL	Physics	18.02.2019
7	MSc Mathamatics (FYIC)	MTL	Mathematics	18.02.2019
8	MSc Mathamatics	MTL	Mathematics	18.02.2019
9	BTech (4 years)	FTL	Food Technology	18.02.2019
10	MSc Food Technology	FTL	Food Technology	18.02.2019
11	BSc (HS) (Botany)	BSL	Botany	18.02.2019
12	MSc Botany	BSL	Botany	18.02.2019
13	MTech	BSL	Environmental Sciences & Technology	18.02.2019
14	MSc Environmental Sciences	BSL	Environmental Sciences	18.02.2019
15	BSc Medical Lab Technology	MBL	Medical Lab Technology	18.02.2019
16	MSc ( Specialization in Sports Biochemistry)	MBL	Molecular Biology & Biochemistry	18.02.2019
17	MSc Molecular Biology & Biochemistry	MBL	Molecular Biology & Biochemistry	18.02.2019
18	MSc (HS) Zoology (FYIC)	ZOL	Zoology	18.02.2019
19	MSc Zoology	ZOL	Zoology	18.02.2019
20	MSc Microbiology	MCL	Microbiology	18.02.2019
21	MSc Biotechnology	BTL	Biotechnology	18.02.2019
22	BSc (HS) Human Genetics	HGL	Human Genetics	18.02.2019
23	MSc Human Genetics	HGL	Human Genetics	18.02.2019
24	MSc (HS) Human Genetics	HGL	Human Genetics	18.02.2019
25	BPharma	PHL	Pharmacy	18.02.2019
26	MPharma	PHL	Pharmacy	18.02.2019
27	MA Political Science	POL	Political Science	18.02.2019
28	MA History	HIL	History	18.02.2019
29	MA Sociology	SOL	Sociology	18.02.2019
30	Bachelor of Library & Information Science(Hons)	LIB	Library & Information Science	18.02.2019
31	Master of Library & Information Science	LIB	Library & Information Science	18.02.2019



Sr. No.	Name of the Programme	Programme Code	Programme Specialization	Date of Revision
32	MA Psychology	PYL	Psychology	18.02.2019
33	BA (HS) in Social Sciences	SSL	Social Sciences	18.02.2019
34	MA (South Asian Studies)	SSL	Social Sciences	18.02.2019
35	BArch	ARL	Architecture	18.02.2019
36	MArch	ARL	Urban Design	18.02.2019
37	MTech	ARL	Construction Technology & Mangement	18.02.2019
38	BTech	GBL	Urban and Regional Planning	18.02.2019
39	MTech	GUL	Urban Planning	18.02.2019
40	Bachelor of Planning	HPL	Urban and Regional Planning	18.02.2019
41	Master of Planning	GIL	Transport Planning	18.02.2019
42	Master of Planning	GIL	Urban Planning	18.02.2019
43	Master of Planning	GIL	Infrastructure Planning	18.02.2019
44	MPA Music (Vocal)	MUL	Music	18.02.2019
45	MPA Music (Instrumental)	MUL	Music	18.02.2019
46	MCA (Three Years Course)	CSL	Computer Applications	18.02.2019
47	MCA (5 Years Integrated Course)	CSL	Computer Applications	18.02.2019
48	BTech	CEL	Computer Engineering	18.02.2019
49	BTech	CEL	Computer Science & Engineering	18.02.2019
50	MTech	CEL	Computer Science & Engineering	18.02.2019
51	BTech	ECL	Electronics & Computer Engineering	18.02.2019
52	BTech	ECL	Electronics & Communications Engineering	18.02.2019
53	MTech	ECL	Electronics & Communications Engineering	18.02.2019
54	Bachelor of Physiotherapy (BPT)	SPL	Physiotherapy	18.02.2019
55	Masters in Physiotherapy (Orthopaedic)	SPL	Physiotherapy	18.02.2019
56	MA Religious Studies	GNL	Religious Studies	18.02.2019
57	MA Philosophy	GNL	Philosophy	18.02.2019
58	MEd (Education)	EDL	Education	18.02.2019
59	MA (Education)	EDL	Educational Mangement & Leadership	18.02.2019
60	MA Education	EDL	Education	18.02.2019
61	MA Sanskrit	SKS	Sanskrit	18.02.2019
62	BA (Hons. School) Punjabi	PBL	Punjabi	18.02.2019
63	MA Punjabi	PBL	Punjabi	18.02.2019
64	MA English	ENG	English	18.02.2019
65	MA Hindi	HIN	Hindi	18.02.2019



Sr. No.	Name of the Programme	Programme Code	Programme Specialization	Date of Revision
66	MA Business Economics	EDL	Business Economics	18.02.2019
67	BSc (Hons. School) Economics	EDL	Economics	18.02.2019
68	MSc (Hons. School) Economics	EDL	Economics	18.02.2019
69	MCom (FYIC)	MGL	Commerce	18.02.2019
70	BCom (HS)	MGL	Commerce	18.02.2019
71	MBA	MGL	Finance	18.02.2019
72	MCom	MGL	Commerce	18.02.2019
73	MBA (FYIC)	MGL	Business Administration	18.02.2019
74	MBA	MGL	Business Administration	18.02.2019
75	MBA	MGL	Marketing Management	18.02.2019
76	MBA	MGL	Financial Analysis	18.02.2019
77	MBA	MGL	Human Resource Development	18.02.2019
78	BA LLB (FYIC)	LAW	Law	18.02.2019
79	LLM (One Year Course)	LAW	Law	18.02.2019
80	LLB (TYC)	LAW	Law	18.02.2019
81	BPED	PHE	Physical Education	18.02.2019
82	BPES	PHE	Physical Education and Sports	18.02.2019
83	MPED	PHE	Physical Education	18.02.2019
84	Master in Hospital Administration	SPL	Hospital Administration	18.02.2019
85	MPT	SPL	Sports Physiotherapy	18.02.2019
86	MSc	SPL	Sports Nutrition	18.02.2019
87	MSc	SPL	Exercise & Sports Psychology	18.02.2019
88	MA	SPL	Sports Psychology	18.02.2019
89	Bachelor of Tourism and Travel Management (BTTM)	MIL	Tourism and Hospitality	18.02.2019
90	Bachelor of Hotel Management and Catering Technology (BHMCT)	MIL	Tourism and Hospitality	18.02.2019
91	BTech	MEL	Mechanical Engineering	18.02.2019
92	BTech	CYL	Civil Engineering	18.02.2019
93	MTech	MEL	Mechanical Engineering	18.02.2019
94	BSc (HS)	AGL	Agriculture	18.02.2019
96	BA (HS)	JML	Journalism & Mass Communication	18.02.2019



**Annexure-V**

**Programmes/Courses focussed on Employability/ Entrepreneurship/Skill Development during the Academic Year (2019-20)**

Sr.No	Name of the Programme	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
1	BTech	Textile Processing Technology	18.02.2019	ARL	18.02.2019
2	MSc	Applied Chemistry (Pharma)	18.02.2019	ARL	18.02.2019
3	MSc (HS) (Chemistry)	Chemistry	18.02.2019	CYL	18.02.2019
4	MSc (Chemistry)	Chemistry	18.02.2019	CYL	18.02.2019
5	MSc (HS) (Physics)	Physics	18.02.2019	CYL	18.02.2019
6	MSc (Physics)	Physics	18.02.2019	CYL	18.02.2019
7	MSc Mathamatics (FYIC)	Mathematics	18.02.2019	CYL	18.02.2019
8	MSc Mathamatics	Mathematics	18.02.2019	CEL	18.02.2019
9	BTech (4 years)	Food Technology	18.02.2019	CEL	18.02.2019
10	MSc Food Technology	Food Technology	18.02.2019	CEL	18.02.2019
11	BSc (HS) (Botany)	Botany	18.02.2019	CSL	18.02.2019
12	MSc Botany	Botany	18.02.2019	CSL	18.02.2019
13	MTech	Environmental Sciences & Technology	18.02.2019	BTL	18.02.2019
14	MSc Environmental Sciences	Environmental Sciences	18.02.2019	BSL	18.02.2019
15	BSc Medical Lab Technology	Medical Lab Technology	18.02.2019	BSL	18.02.2019
16	MSc ( Specialization in Sports Biochemistry)	Molecular Biology & Biochemistry	18.02.2019	BSL	18.02.2019
17	MSc Molecular Biology & Biochemistry	Molecular Biology & Biochemistry	18.02.2019	HGL	18.02.2019
18	MSc (HS) Zoology (FYIC)	Zoology	18.02.2019	HGL	18.02.2019
19	MSc Zoology	Zoology	18.02.2019	HGL	18.02.2019
20	MSc Microbiology	Microbiology	18.02.2019	MCL	18.02.2019
21	MSc Biotechnology	Biotechnology	18.02.2019	EDL	18.02.2019
22	BSc (HS) Human Genetics	Human Genetics	18.02.2019	EDL	18.02.2019
23	MSc Human Genetics	Human Genetics	18.02.2019	ECL	18.02.2019
24	MSc (HS) Human Genetics	Human Genetics	18.02.2019	ECL	18.02.2019
25	BPharma	Pharmacy	18.02.2019	ENG	18.02.2019
26	MPharma	Pharmacy	18.02.2019	FTL	18.02.2019
27	MA Political Science	Political Science	18.02.2019	FTL	18.02.2019
28	MA History	History	18.02.2019	GNL	18.02.2019
29	MA Sociology	Sociology	18.02.2019	GNL	18.02.2019
30	Bachelor of Library & Information Science	Library & Information Science	18.02.2019	HPL	18.02.2019
31	Master of Library & Information Science	Library & Information Science	18.02.2019	GBL	18.02.2019



Sr.No	Name of the Programme	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
32	MA Psychology	Psychology	18.02.2019	GIL	18.02.2019
33	BA (HS) in Social Sciences	Social Sciences	18.02.2019	GIL	18.02.2019
34	MA (South Asian Studies)	Social Sciences	18.02.2019	GUL	18.02.2019
35	BArch	Architecture	18.02.2019	HIN	18.02.2019
36	MArch	Urban Design	18.02.2019	HIL	18.02.2019
37	MTech	Construction Technology & Mangement	18.02.2019	LAW	18.02.2019
38	BTech	Urban and Regional Planning	18.02.2019	LAW	18.02.2019
39	MTech	Urban Planning	18.02.2019	LAW	18.02.2019
40	Bachelor of Planning	Urban and Regional Planning	18.02.2019	LIB	18.02.2019
41	Master of Planning	Transport Planning	18.02.2019	LIB	18.02.2019
42	Master of Planning	Urban Planning	18.02.2019	MTL	18.02.2019
43	Master of Planning	Infrastructure Planning	18.02.2019	MTL	18.02.2019
44	MPA Music (Vocal)	Music	18.02.2019	MBL	18.02.2019
45	MPA Music (Instrumental)	Music	18.02.2019	MBL	18.02.2019
46	MCA (Three Years Course)	Computer Applications	18.02.2019	MUL	18.02.2019
47	MCA (5 Years Integrated Course)	Computer Applications	18.02.2019	MUL	18.02.2019
48	BTech	Computer Engineering	18.02.2019	PHL	18.02.2019
49	BTech	Computer Science & Engineering	18.02.2019	PHL	18.02.2019
50	MTech	Computer Science & Engineering	18.02.2019	PHE	18.02.2019
51	BTech	Electronics & Computer Engineering	18.02.2019	PHE	18.02.2019
52	BTech	Electronics & Communications Engineering	18.02.2019	PHE	18.02.2019
53	MTech	Electronics & Communications Engineering	18.02.2019	PHL	18.02.2019
54	Bachelor of Physiotherapy (BPT)	Physiotherapy	18.02.2019	PHL	18.02.2019
55	Masters in Physiotherapy (Orthopaedic)	Physiotherapy	18.02.2019	PHL	18.02.2019
56	MA Religious Studies	Religious Studies	18.02.2019	SPL	18.02.2019
57	MA Philosophy	Philosophy	18.02.2019	SPL	18.02.2019
58	MEd (Education)	Education	18.02.2019	POL	18.02.2019
59	MA (Education)	Educational Mangement & Leadership	18.02.2019	PYL	18.02.2019
60	MA Education	Education	18.02.2019	EDL	18.02.2019
61	MA Sanskrit	Sanskrit	18.02.2019	EDL	18.02.2019
62	BA (Hons. School) Punjabi	Punjabi	18.02.2019	EDL	18.02.2019
63	MA Punjabi	Punjabi	18.02.2019	SKS	18.02.2019
64	MA English	English	18.02.2019	PBL	18.02.2019
65	MA Hindi	Hindi	18.02.2019	PBL	18.02.2019



Sr.No	Name of the Programme	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
66	MA Business Economics	Business Economics	18.02.2019	SSL	18.02.2019
67	BSc (Hons. School) Economics	Economics	18.02.2019	SOL	18.02.2019
68	MSc (Hons. School) Economics	Economics	18.02.2019	MGL	18.02.2019
69	MCom (FYIC)	Commerce	18.02.2019	MGL	18.02.2019
70	BCom (HS)	Commerce	18.02.2019	MGL	18.02.2019
71	MBA	Finance	18.02.2019	MGL	18.02.2019
72	MCom	Commerce	18.02.2019	MGL	18.02.2019
73	MBA (FYIC)	Business Administration	18.02.2019	MGL	18.02.2019
74	MBA	Business Administration	18.02.2019	MGL	18.02.2019
75	MBA	Marketing Management	18.02.2019	MGL	18.02.2019
76	MBA	Financial Analysis	18.02.2019	MGL	18.02.2019
77	MBA	Human Resource Development	18.02.2019	MGL	18.02.2019
78	BA LLB (FYIC)	Law	18.02.2019	ZOL	18.02.2019
79	LLM (One Year Course)	Law	18.02.2019	ZOL	18.02.2019
80	LLB (TYC)	Law	18.02.2019	SPL	18.02.2019
81	BPEd	Physical Education	18.02.2019	SPL	18.02.2019
82	BPES	Physical Education and Sports	18.02.2019	SPL	18.02.2019
83	MPEd	Physical Education	18.02.2019	SPL	18.02.2019
84	Master in Hospital Administration	Hospital Administration	18.02.2019	SPL	18.02.2019
85	MPT	Sports Physiotherapy	18.02.2019	MIL	18.02.2019
86	MSc	Sports Nutrition	18.02.2019	MIL	18.02.2019
87	MSc	Exercise & Sports Psychology	18.02.2019	ARL	18.02.2019
88	MA	Sports Psychology	18.02.2019	MEL	18.02.2019
89	Bachelor of Tourism & Travel Mgt. (BTTM)	Tourism and Hospitality	18.02.2019	CYL	18.02.2019
90	Bachelor of Hotel Mgt. & Catering Tech. (BHMCT)	Tourism and Hospitality	18.02.2019	CYL	18.02.2019
91	BTech	Mechanical Engineering	18.02.2019	MEL	18.02.2019
92	BTech	Civil Engineering	18.02.2019	CEL	18.02.2019
93	MTech	Mechanical Engineering	18.02.2019	MEL	18.02.2019
94	BSc (HS)	Agriculture	18.02.2019	AGL	18.02.2019
96	BA (HS)	Journalism & Mass Communication	18.02.2019	JML	18.02.2019



**Annexure -VI**

**New Programmes/Courses Introduced during the Academic Year 2019-20**

<b>Sr.no</b>	<b>Programme/ Course</b>	<b>Programme Specialization</b>	<b>Date of Introduction</b>
1	Master of Planning	Transport Planning	18.02.2019
2	MA (South Asian Studies)	Social Sciences	18.02.2019
3	MTech	Construction Technology & Mangement	18.02.2019
4	MA (Education)	Educational Manegment & Leadership	18.02.2019
5	MA Persian	Urdu & Persian	18.02.2019
6	MA Russian	Foreign Languages	18.02.2019
7	MTech	Mechatronics Engg.	28.05.2019
8	MSc (USHS) Four Year Integrated Course	Economics	18.02.2019
9	MSc Mahematics (FYIC) (USHS) (CBEGS)	Mathematics	18.02.2019
10	MSc Chemistry (FYIC) (USHS) (CBEGS)	Chemistry	18.02.2019
11	MSc Physics (FYIC) (USHS) (CBEGS)	Physics	18.02.2019
12	MSc Chemistry (USHS) (CBEGS)	Chemistry	18.02.2019
13	MSc Physics (USHS) (CBEGS)	Physics	18.02.2019
14	MSc Zoology (FYIC) (USHS) (CBEGS)	Zoology	18.02.2019
15	MSc Zoology (USHS) (CBEGS)	Zoology	18.02.2019
16	MSc Human Gentic (FYIC) (USHS) (CBEGS)	Human Genetics	18.02.2019
17	MSc Human Gentic (USHS) (CBEGS)	Human Genetics	18.02.2019



**Annexure-VII**

**Value Added Courses Imparting Transferable and Life Skills Offered during the Year Academic (2019-20)**

Sr.No	Value Added Courses	Date of Introduction	Number of Students Enrolled
1	HISTORY OF ARCHITECTURE	January,2020 to June,2020	61
2	TOOLS AND TECHNIQUES IN BIOTECHNOLOGY	January,2020 to June,2020	40
3	CHEMISTRY IN DAILY LIFE	January,2020 to June,2020	35
4	INTERNET APPLICATIONS	January,2020 to June,2020	60
5	OPERATING SYSTEM	January,2020 to June,2020	65
6	INDIAN ECONOMIC ISSUES AND POLICIES	January,2020 to June,2020	25
7	INDIAN ECONOMIC PROBLEMS-II	January,2020 to June,2020	50
8	ASSESSMENT OF LEARNING	January,2020 to June,2020	83
9	DEVELOPMENT OF EDUCATION IN INDIA	January,2020 to June,2020	50
10	FUNDAMENTALS OF COMMUNICATION ENGINEERING	January,2020 to June,2020	16
11	INTRODUCTION TO FIBER OPTICS	January,2020 to June,2020	11
12	FOOD QUALITY AND FOOD SAFETY	January,2020 to June,2020	76
13	INTRODUCTION TO FOOD SCIENCE AND NUTRITION	January,2020 to June,2020	72
14	TECHNOLOGY OF PROCESSED FOODS	January,2020 to June,2020	70
15	ELEMENTARY FRENCH	January,2020 to June,2020	99
16	ELEMENTARY RUSSIAN	January,2020 to June,2020	39
17	PHILOSOPHY : INDIAN AND WESTERN	January,2020 to June,2020	154
18	UNDERSTANDING RELIGION IN THE MODERN TIMES	January,2020 to June,2020	148
19	REGIONAL PLANNING & RURAL DECELOPMENT	January,2020 to June,2020	15
20	GURU NANAK VISHESH ADHYAYAN	January,2020 to June,2020	80
21	HINDI SAHITYA KA PARICHYATATMAK ITIHAS	January,2020 to June,2020	43
22	HINDI SHABAD SANRACHNA	January,2020 to June,2020	80
23	HINDI UPNYAS (BHAGYAWATI)	January,2020 to June,2020	68
24	KATHAKAAR MUNSHI PREMCHAND	January,2020 to June,2020	80
25	NATAKKAR MOHAN RAKESH	January,2020 to June,2020	80
26	BASIC CONCEPTS IN HUMAN GENETICS	January,2020 to June,2020	43
27	INTRODUCTION TO HUMAN GENETICS	January,2020 to June,2020	38
28	BASIC CONCEPTS OF LAW-II	January,2020 to June,2020	58
29	BASIC CONCEPTS OF LAW-IV	January,2020 to June,2020	7
30	BASICS OF LIBRARIANSHIP	January,2020 to June,2020	40
31	CONCEPTS IN MICROBIAL GENETICS	January,2020 to June,2020	8



Sr.No	Value Added Courses	Date of Introduction	Number of Students Enrolled
32	MOLECULAR BIOLOGY AND GENETICS	January,2020 to June,2020	48
33	BASIC FUNDAMENTALS & PRACTICAL TRAINING IN MUSIC (INSTRUMENTAL)	January,2020 to June,2020	30
34	BASIC FUNDAMENTALS & PRACTICAL TRAINING IN MUSIC (VOCAL)	January,2020 to June,2020	29
35	MUSIC APPRECIATION & BASIC TRAINING IN MUSIC INSTRUMENTAL	January,2020 to June,2020	39
36	MUSIC APPRECIATION & BASIC TRAINING IN MUSIC VOCAL	January,2020 to June,2020	30
37	FUNDAMENTAL OF SPORTS PSYCHOLOGY	January,2020 to June,2020	30
38	BASIC AND FUNDAMENTAL PHARMACOLOGY	January,2020 to June,2020	31
39	BASICS OF HERBAL DRUG DEVELOPMENT	January,2020 to June,2020	40
40	PHYSICS IN EVERYDAY LIFE	January,2020 to June,2020	31
41	FUNDAMENTALS OF PHYSIOTHERAPY	January,2020 to June,2020	40
42	ISSUES IN CONTEMPORARY INTERNATIONAL POLITICS	January,2020 to June,2020	50
43	PERSPECTIVES AND PROCESSES OF INDIAN POLITY	January,2020 to June,2020	50
44	STRESS AND COPING	January,2020 to June,2020	75
45	ADHUNIK PUNJABI VARTAK	January,2020 to June,2020	16
46	PUNJABI BHASHA DA ITIHAAS	January,2020 to June,2020	49
47	PUNJABI LOKDHARA	January,2020 to June,2020	30
48	PUNJABI NOVEL	January,2020 to June,2020	54
49	HITOPADESH : A NITI GRANTH	January,2020 to June,2020	36
50	FUNCTIONAL MANAGEMENT	January,2020 to June,2020	34
51	ENTREPRENEURSHIP AND BUSINESS STRATEGY	January,2020 to June,2020	62
52	ORGANISATIONAL BEHAVIOUR	January,2020 to June,2020	59
53	FUNDAMENTALS OF BUSINESS MANAGEMENT	January,2020 to June,2020	120
54	URDU LANGUAGE	January,2020 to June,2020	34
55	URDU POETRY	January,2020 to June,2020	1
56	CONCEPTS OF ZOOLOGY	January,2020 to June,2020	50
57	IMPORTANT WILDLIFE PROJECTS IN INDIA	January,2020 to June,2020	40
58	RESIDENTIAL ARCHITECTURE	January,2020 to June,2020	30
59	SOCIO ECONOMIC ASPECTS OF URBAN ENVIRONMENT	January,2020 to June,2020	3
60	FUNDAMENTALS OF BIOTECHNOLOGY	July,2019 to December,2019	2
61	CHEMICAL DISASTERS	July,2019 to December,2019	6
62	GARMENT CARE	July,2019 to December,2019	4
63	GENERAL CHEMISTRY	July,2019 to December,2019	1
64	COMPUTER FUNDAMENTALS	July,2019 to December,2019	80
65	COMPUTER PROGRAMMING	July,2019 to December,2019	10



Sr.No	Value Added Courses	Date of Introduction	Number of Students Enrolled
66	ECONOMIC ANALYSIS	July,2019 to December,2019	41
67	INDIAN ECONOMY-I	July,2019 to December,2019	35
68	ESSENTIALS OF TEACHING	July,2019 to December,2019	50
69	INDIAN PHILOSOPHICAL THOUGHTS AND VALUES	July,2019 to December,2019	15
70	BASIC ELECTRICAL & ELECTRONICS	July,2019 to December,2019	30
71	CONSUMER ELECTRONICS	July,2019 to December,2019	7
72	FUNDAMENTALS OF WIRELESS & MOBILE COMMUNICATION	July,2019 to December,2019	10
73	FOOD HYGIENE AND SANITATION	July,2019 to December,2019	68
74	FOOD TRENDS AND CONSUMPTION	July,2019 to December,2019	14
75	INTRODUCTION TO FOOD PROCESSING	July,2019 to December,2019	70
76	ELEMENTARY FRENCH	July,2019 to December,2019	68
77	APPLIED ETHICS	July,2019 to December,2019	131
78	GURU NANAK DEV: LIFE AND TEACHINGS	July,2019 to December,2019	150
79	PRINCIPLES AND TECHNIQUES OF PLANNING	July,2019 to December,2019	0
80	GURU NANAK DEV : VISHESH ADHYAYAN	July,2019 to December,2019	43
81	HINDI KAHANI	July,2019 to December,2019	99
82	HINDI SAHITYA KA PRICHAYATMAK ITIHAAS	July,2019 to December,2019	7
83	HINDI VYAKARAN: SAMANAY PRICHAYA	July,2019 to December,2019	99
84	KABIR VISHESH ADHYAYAN	July,2019 to December,2019	45
85	PUNJAB KA HINDI UPNYAS (DHARTI DHAN NA APNA)	July,2019 to December,2019	4
86	INDIAN NATIONAL MOVEMENT (A.D. 1857-1947)	July,2019 to December,2019	14
87	HUMAN GENETICS : CONCEPTS AND APPLICATIONS	July,2019 to December,2019	16
88	INTRODUCTION TO HUMAN BIOLOGY	July,2019 to December,2019	31
89	BASIC CONCEPTS OF LAW -I	July,2019 to December,2019	17
90	BASIC CONCEPTS OF LAW -III	July,2019 to December,2019	2
91	EMERGING TRENDS IN LIBRARY AND INFORMATION SCIENCE	July,2019 to December,2019	4
92	NUMERICAL METHODS	July,2019 to December,2019	9
93	FUNDAMENTALS OF BIOCHEMISTRY	July,2019 to December,2019	1
94	BASIC FUNDAMENTALS & PRACTICAL TRAINING IN MUSIC INSTRUMENTAL	July,2019 to December,2019	18
95	BASIC FUNDAMENTALS & PRACTICAL TRAINING IN MUSIC VOCAL	July,2019 to December,2019	21
96	MUSIC APPRECIATION & BASIC TRAINING IN MUSIC INSTRUMENTAL	July,2019 to December,2019	30
97	MUSIC APPRECIATION & BASIC TRAINING IN MUSIC VOCAL	July,2019 to December,2019	30
98	BASICS OF EXERCISE PHYSIOLOGY AND NUTRITION	July,2019 to December,2019	30
99	BASICS OF NATURAL DRUG	July,2019 to December,2019	8



Sr.No	Value Added Courses	Date of Introduction	Number of Students Enrolled
100	DRUG DESIGN AND DRUG DEVELOPMENT	July,2019 to December,2019	3
101	PHARMACEUTICAL CHEMISTRY-I: ORGANIC CHEMISTRY	July,2019 to December,2019	17
102	GENERAL PHYSICS-I	July,2019 to December,2019	9
103	NONCONVENTIONAL ENERGY RESOURCES	July,2019 to December,2019	4
104	FUNDAMENTALS OF PHYSIOTHERAPY	July,2019 to December,2019	39
105	INDIA IN GLOBAL POLITICS	July,2019 to December,2019	26
106	INDIAN CONSTITUTION AND POLITICAL SYSTEM	July,2019 to December,2019	50
107	INDIAN GOVERNMENT AND POLITICS	July,2019 to December,2019	19
108	PSYCHOLOGICAL PROCESSES	July,2019 to December,2019	44
109	GURMAT KAAV	July,2019 to December,2019	21
110	KISSA KAAV	July,2019 to December,2019	50
111	PUNJABI KAHANI	July,2019 to December,2019	49
112	PUNJABI VIAKARAN	July,2019 to December,2019	27
113	SABYACHAAR ATE PUNJABI SABYACHAAR	July,2019 to December,2019	8
114	SUFI KAAV	July,2019 to December,2019	13
115	PANCHATANTRA : A NITI GRANTH	July,2019 to December,2019	48
116	BUSINESS COMMUNICATION	July,2019 to December,2019	30
117	BUSINESS ENVIRONMENT	July,2019 to December,2019	36
118	BUSINESS LAWS	July,2019 to December,2019	51
119	PRINCIPLES AND PRACTICES OF MANAGEMENT	July,2019 to December,2019	29
120	BASICS OF INVESTMENT PLANNING	July,2019 to December,2019	8
121	BASICS OF STOCK MARKET	July,2019 to December,2019	3
122	PERSIAN LANGUAGE	July,2019 to December,2019	10
123	URDU LANGUAGE	July,2019 to December,2019	39
124	URDU POETRY	July,2019 to December,2019	1
125	ANIMAL DIVERSITY	July,2019 to December,2019	5
126	CONCEPTS OF ENVIRONMENTAL BIOLOGY	July,2019 to December,2019	24



### Annexure-VIII

#### Field Projects/Internships undertaken during 2019-20

Sr.No	Project/Programme Title	Programme Specialization	Number of Students Enrolled for Field Projects/ Internship
1	BArch	Architecture	397
2	MSc	Botanical Science & Environmental Sciences	89
3	BSc, MSc & MSc(HS)	Chemistry	45
4	BTech	Civil Engineering	15
5	BTech (CSE) & BTech (CE)	Computer Science & Engineering	196
6	BTech (ESE) & BTech (CCE)	Electronics and Communications Engineering	110
7	MA & MEd	Education	44
8	BCom & MCom	University School of Financial Studies	58
9	BTech & MSc	Food Science & Technology	78
10	BSc & MSc(HS)	Human Genetics	9
11	BLib & MLib	Library & Information Science	40
12	BTech	Mechanical Engineering	13
13	MSc & MA	MYAS-Department Sports Medicine	54
14	BPharma & MPharma	Pharmaceutical Sciences	54
15	BPT & MPT	Physiotherapy	49
16	BTech, Bachelor of Planning & Master of Planning	Guru Ram Das School of Planning	71
17	MA	Sociology	14



**Annexure-IX**  
**Demand Ratio during the Academic Year 2019-20**

Sr.No	Name of the Programme	Programme Specialization	Number of Seats Available	Number of Applications Received	Students Enrolled
1	BArch	Architecture	82	185	82
2	MArch	Urban Design	8	12	6
3	MSc	Applied Chemistry (Pharma)	150	71	71
4	BTech	Textile Processing Technology	50	11	11
5	BSc (HS) (Chemistry)	Chemistry	300	385	358
6	M.Sc. (USHS)	Chemistry	50	61	59
7	MSc (HS) (Chemistry)	Chemistry	100	43	43
8	MSc (Chemistry)	Chemistry	75	435	77
9	BTech	Computer Engineering	60	1692	46
10	BTech	Computer Science and Engineering	240	988	224
11	MTech	Computer Science and Engineering	30	32	16
12	MCA	Computer Applications	60	152	60
13	MCA (FYIC)	Computer Applications	60	1512	65
14	MSc (Biotechnology)	Biotechnology	29	88	65
15	BSc (HS)(Botany)	Botany	40	140	25
16	MSc (Botany)	Botany	60	334	62
17	MSc (Environmental Sciences)	Environmental Sciences	30	74	31
18	MSc (USHS)	Human Genetics	30	12	10
20	MSc (Human Genetics)	Human Genetics	50	75	25
21	MSc (HS) (Human Genetics)	Human Genetics	60	10	44
22	MSc (Microbiology)	Microbiology	60	162	53
23	MEd (Education)	Education	50	136	27
24	MA (Education)	Education	10	6	4
25	BTech (ECE)	Electronics and Communications Engineering	120	43	224
26	MTech (ECE)	Electronics and Communications Engineering	10	15	16
27	MA (English)	English	50	129	48
28	BTech	Food Science & Technology	40	26	37
29	MSc (Food Technology)	Food Science & Technology	40	182	40
30	MA (Philosophy)	Philosophy	14	4	0



Sr.No	Name of the Programme	Programme Specialization	Number of Seats Available	Number of Applications Received	Students Enrolled
31	MA (Religious Studies)	Religious Studies	14	18	13
32	Bachelor of Planning	Urban and Regional Planning	20	21	10
34	Master of Planning	Infrastructure Planning	15	39	20
35	Master of Planning	Urban Planning	23	72	24
36	Master of Planning	Transport	20	23	13
37	MA (Hindi)	Hindi	20	10	7
38	MA (History)	History	30	43	28
39	LLB (TYC)	Law	120	112	98
40	BA LLB (FYIC)	Law	120	174	115
41	LLM	Law	40	231	36
42	BLib & Information Science	Library & Information Science	20	22	11
43	MLib & Information Science	Library & Information Science	20	15	9
44	BSc (HS) (Mathematics)	Mathematics	100	120	97
45	MSc (Mathematics)	Mathematics	60	220	59
46	BSc (Medical Lab. Technology)	Medical Lab. Technology	40	52	21
47	MSc (Sports Biochemistry)	Molecular Biology & Biochemistry	16	3	2
48	MSc (Molecular Biology & Biochemistry)	Molecular Biology & Biochemistry	50	82	45
49	MPA (Vocal)	Music	20	31	14
50	MPA (Instrumental)	Music	20	8	2
51	BPharm	Pharmacy	60	120	57
52	MPharm	Pharmacy	26	28	10
53	BPES	Physical Education and Sports	70	128	69
54	BPEd	Physical Education	120	119	68
55	MPEd	Physical Education	80	114	76
57	MSc (USHS)	Physics	50	61	40
58	MSc (HS) (Physics)	Physics	75	45	75
59	MSc (Physics)	Physics	60	322	58
60	BPT	Physiotherapy	60	245	61
61	MPT	Orthopaedic	16	64	17
62	MA (Political Science)	Political science	60	91	57
63	MA (Psychology)	Psychology	53	122	53
64	BSc (HS) (Economics)	Economics	80	80	79



Sr.No	Name of the Programme	Programme Specialization	Number of Seats Available	Number of Applications Received	Students Enrolled
65	MSc (HS) (Economics)	Economics	80	56	46
66	MA	Business Economics	30	14	13
67	MA (Sanskrit)	Sanskrit	15	16	11
68	BA (HS) (Punjabi)	Punjabi	30	40	30
69	MA (Punjabi)	Punjabi	50	69	50
70	BA (HS) (Social Sciences)	Social Sciences	140	385	139
71	MA (Social Sciences)	Social Sciences	10	14	10
72	MA (Sociology)	Sociology	24	42	24
73	MBA	Financial Analysis	60	420(Combined Test)	60
74	MBA	Marketing Management	60	420(Combined Test)	56
75	MBA	Business Administration	120	420(Combined Test)	115
76	MBA	Human Resource Development	60	420(Combined Test)	38
77	MBA (FYIC)	Business Administration	100	246	101
78	BCom (HS)	Commerce	120	1000	115
79	MBA	Finance	70	573	64
80	MCom	Commerce	120	145	91
81	MCom (FYIC)	Commerce	60	1000	59
82	MSc (HS) (Zoology) (FYIC)	Zoology	25	1100	20
83	MSc (Zoology)	Zoology	60	525	58
84	Master in Hospital Administration	Hospital Administration	30	27	13
85	MPT	Sports Physiotherapy	27	143	27
86	MSc	Sports & Nutrition	16	10	4
87	MSc	Exercise & Sports Psychology	16	7	4
88	MA	Sports Psychology	16	28	12
89	BTech	Civil Engineering	60	28	43
90	MTech (Mechatronics Engineering)	Mechanical Engineering	20	17	17
91	BTech	Mechanical Engineering	60	45	45
92	Bachelor of Tourism & Travel Management	Tourism and Hospitality	20	18	15
93	Bachelor of Hotel Management & Catering Technology	Tourism and Hospitality	65	69	64
94	BSc	Agriculture	41	50	37
95	BA (HS)	Journalism and Mass Communication	35	65	35

**Annexure-X****Honours and Recognition Received by Teachers (Received Awards, Recognition, Fellowships at State, National, International Level from Government, Recognised Bodies during the Academic Year (2019-20))**

Sr. No.	Year of Award	Name of Full Time Teachers Receiving Awards from State Level, National Level, International Level	Designation	Name of the Award, Fellowship, Received from Government or Recognized Bodies
1	2020	Dr. Gurcharan Kaur	Professor	BK Bacchawat Life time Achievement Award
2	2019	Dr. Jatinder Kaur	Associate Professor	Best Women Young Scientist Award in Biological Sciences - 2019 (Educational Excellence Awards in Higher Education (2018-2019))
3	2019	Dr. Manpreet Singh Bhatti	Associate Professor	Lifetime Achievement Award, Marquis Who Who, USA
4	2019	Dr. Manpreet Singh Bhatti	Associate Professor	Member, Principal Scientific Adviser (PSA) Consultative Group on Water
5	2019	Dr. Manpreet Singh Bhatti	Associate Professor	Member, Technical Committee, Punjab State Wetland Authority
6	2019	Dr. Manpreet Singh Bhatti	Associate Professor	Academic Editor, PLOS One
7	2019	Dr. Manpreet Singh Bhatti	Associate Professor	INSPIRE Fellowship to Aditi Sugha
8	2020	Dr. Manpreet Singh Bhatti	Associate Professor	Fellow National Environmental Science Academy
9	2020	Dr. Manpreet Singh Bhatti	Associate Professor	Fellow (F-1267503), The Institution of Engineers
10	2019	Sachin Kumar	Assistant Professor	Best poster Award at 3rd International Conference on Condensed Matter and Applied Physics
11	2020	Dr. Vandana Bhalla	Associate Professor	Indian national sciences Academy teacher award
12	2020	Dr. Varinder Kaur	Assistant Professor	PEARL Foundation Educational Excellence Awards
13	2020	Dr. Venus Singh Mithu	Assistant Professor	Manfred Eigen Postdoctoral Fellowship
14	2019	Dr. Prabhsimran Singh	Assistant Professor	IFIP Travel Grant
15	2019	Dr. Sumneet Kaur	Assistant Professor	23rd World Conference on Applied Science, Engineering and Technology - Melbourne Australia
16	2019	Dr. Sumneet Kaur	Assistant Professor	7th International Conference on Applied Science, Engineering and Technology
17	2019	Dr. Maninder Kaur	Assistant Professor	Awarded second prize for oral presentation at National conference on New Horizon in Food Processing Technology and Nutrition
18	2019	Dr. Amritpal Kaur	Assistant Professor	India Research excellence-Citation
19	2019	Dr. Amritpal Kaur	Assistant Professor	Prof M P Khare memorial Award
20	2020	Dr. Mohan Kumar	Associate Professor	Teachers Training Programme, Goethe Institute
21	2019	Dr. Mohubat Singh	Assistant Professor	Vichar Goshti Rohani Rahit, Baba Sucha Singh Gurmat Sangeet Academy
22	2019	Dr. Mohubat Singh	Assistant Professor	Sammelan Jagat Gur Baba, Sri Guru Nanak Dev ji Inter Religious Foudation
23	2019	Dr. Sunil	Assistant Professor	Sahityaratan, Vishwa Hindi Sahitya Sansthan, Paryagraj
24	2019	Dr. Sunil	Assistant Professor	Vilaxna Samaj Sarthi Samman



Sr. No.	Year of Award	Name of Full Time Teachers Receiving Awards from State Level, National Level, International Level	Designation	Name of the Award, Fellowship, Received from Government or Recognized Bodies
25	2020	Dr. Sunil	Assistant Professor	Saksharta Prahari Samman
26	2020	Dr. Sunil	Assistant Professor	Iconic Personality Award, Purwar Achievers Foundation
27	2020	Dr. Sunil	Assistant Professor	Kalam Vibhuti Samman
28	2019	Dr. T.D. Narang	Professor	Prestigious Scientist Award, International Award Committee
29	2019	Dr. Gagandeep Kaur Gahlay	Assistant Professor	Indo-US Fellowship for Women in STEMM
30	2019	Dr. Rajesh Sharma	Assistant Professor	Salaam-e-Himmat, Great Sports and Culture Club India
31	2019	Dr. Rajesh Sharma	Assistant Professor	Award of Excellence, Rotary Club RI District, Amritsar
32	2019	Dr. Rajesh Sharma	Assistant Professor	Nation Builder Award, Rotary RI District, Amritsar
33	2019	Dr. Rajesh Sharma	Assistant Professor	Guest of Honour Award, Ik Shaam Punjabiyat de Naam , Cultural Event Virsha Vihar, Amritsar
34	2019	Dr. Rajesh Sharma	Assistant Professor	Special Honour, Dr. Raj Kumar Verka, Padam Shri Puran Wadali, Amritsar
35	2019	Dr. Rajbir Bhatti	Associate Professor	Associate Editor, Frontiers in Pharmacology
36	2019	Dr. Rajbir Bhatti	Associate Professor	Travel award to PhD, International Society for Neurochemistry
37	2019	Prof. Subheet Kumar Jain	Professor	Harmanpreet Singh (Ph.D.) awarded International travel support from CSIR and keystone Symposium for attending Delivering Therapeutics Across Biological Barriers (E1), Dublin, Ireland in
38	2019	Dr. Aman Mahajan	Assistant Professor	International collaboration/ Exchange Programme, INSA
39	2019	Dr. Swati Mehta	Assistant Professor	ISEF-KFAS
40	2019	Dr. Raminder Kaur	Professor	Satwinder kaur uppal Yadgiri sanman
41	2019	Dr.Darya	Associate Professor	Ekam sahit sanman
42	2020	Dr.Darya	Associate Professor	Gyani heera singh dard puraskar
43	2020	Rachana Sharma	Assistant Professor	Certification of Appreciation, DATRI- Dr Nezh Cereb
44	2019	Dr. Vikram	Associate Professor	Amaravathi Research Academy
45	2020	Dr. Vikram	Associate Professor	ESN Research Group
46	2020	Dr. Pavleen Kaur	Associate Professor	Best Paper Award, IMS Ghaziabad
47	2019	Dr. Syed Raihan Hasan Rizvi	Assistant Professor	Uttar Pradesh Urdu Academy Award (Tajziyat Bayaad-E- Hasan Mosanna)
48	2019	Dr Pujja Ohri	Associate Professor	Fellow NSI ,IARI

**Annexure-XI****Number of Days from the Date of Semester-End/ Year-End Examination till the Declaration of Results during the Academic Year (2019-20)**

Sr.No	Name of the Programme	Programme Code	Semester/ Year	Last date of the Last Semester-End/ Year-End Examination	Date of Declaration of Semester- End/ Year End Examination
1	BSc (HS) Chemistry	CYL	May-20	01.10.2020	06.11.2020
2	MSc	CYL	May-20	14.10.2020	20.11.2020
3	MSc (HS) (Chemistry)	CYL	May-20	05.10.2020	23.11.2020
4	MSc (Chemistry)	CYL	May-20	06.10.2020	27.10.2020
5	BSc (HS) Physics	PHL	May-20	02.10.2020	03.11.2020
6	MSc (HS) (Physics)	PHL	May-20	28.09.2020	12.11.2020
7	MSc (Physics)	PHL	May-20	30.09.2020	13.11.2020
8	MSc Mathamatics (FYIC)	MTL	May-20	05.10.2020	23.11.2020
9	MSc Mathamatics	MTL	May-20	06.10.2020	27.10.2020
10	BTech (4 years)	FTL	May-20	No Examination Scheduled due to Covid -19	06.11.2020
11	MSc Food Technology	FTL	May-20	05.10.2020	31.12.2020
12	MSc Botany	BSL	May-20	18.09.2020	24.09.2020
13	MSc Environmental Sciences	BSL	May-20	18.09.2020	24.09.2020
14	MSc ( Specialization in Sports Biochemistry)	MBL	May-20	09.10.2020	04.12.2020
15	MSc Molecular Biology & Biochemistry	MBL	May-20	09.10.2020	04.12.2020
16	MSc Zoology	ZOL	May-20	01.01.2020	10.12.2020
17	MSc Microbiology	MCL	May-20	05.10.2020	18.11.2020
18	MSc Biotechnology	BTL	May-20	29.09.2020	27.11.2020
19	BSc (HS) Human Genetics	HGL	May-20	05.10.2020	28.10.2020
20	MSc Human Genetics	HGL	May-20	No Examination Scheduled due to Covid -19	23.07.2020
21	MSc (HS) Human Genetics	HGL	May-20	03.10.2020	06.11.2020
22	BPharma	PHL	May-20	05.10.2020	27.10.2020
23	MPharma	PHL	May-20	05.11.2020	17.12.2020
24	MA Political Science	POL	May-20	01.10.2020	17.11.2020
25	MA History	HIL	May-20	03.10.2020	06.11.2020



Sr.No	Name of the Programme	Programme Code	Semester/ Year	Last date of the Last Semester- End/ Year-End Examination	Date of Declaration of Semester- End/ Year End Examination
26	MA Sociology	SOL	May-20	01.10.2020	09.11.2020
27	Bachelor of Library & Information Science(Hons)	LIB	May-20	08.10.2020	09.11.2020
28	Master of Library & Information Science	LIB	May-20	08.10.2020	09.11.2020
29	MA Psychology	PYL	May-20	26.10.2020	01.12.2020
30	BA (HS) in Social Sciences	SSL	May-20	25.09.2020	26.10.2020
31	BArch	ARL	May-20	20.06.2020	09.09.2020
32	MArch	ARL	May-20	25.06.2020	13.10.2020
33	BTech	GBL	May-20	03.10.2020	11.11.2020
34	Bachelor of Planning	HPL	May-20	End Semester Examination no conducted as per decision of University due to Covid -19	19.07.2020
35	Master of Planning (Urban)	GIL	May-20	05.10.2020	11.11.2020
36	Master of Planning (Infrastruture)	GIL	May-20	05.10.2020	11.11.2020
37	Master of Planning (Transport)	GIL	May-20	End Semester Examination no conducted as per decision of University due to Covid -19	10.07.2020
38	MPA Music (Vocal)	MUL	May-20	08.10.2020	28.01.2021
39	MPA Music (Instrumental)	MUL	May-20	08.10.2020	28.01.2021
40	MCA (Three Years Course)	CSL	May-20	No Examination Scheduled due to Covid -19	July,2020
41	MCA (5 Years Integrated Course)	CSL	May-20	No Examination Scheduled due to Covid -19	July,2020
42	BTech	CEL	May-20	29.05.2020	16.06.2020
43	MTech	CEL	May-20	22.09.2020	23.11.2020
44	BTech	ECL	May-20	29.05.2020	1607.202
45	MTech	ECL	May-20	07.07.2020	28.07.2020
46	Bachelor of Physiotherapy (BPT)	SPL	May-20	10.10.2020	04.11.2020
47	Masters in Physiotherapy (Orthopaedic)	SPL	May-20	28.09.2020	23.10.2020
48	MA Religious Studies	GNL	May-20	07.10.2020	10.11.2020
49	MA Philosophy	GNL	May-20	07.10.2020	10.11.2020



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Sr.No	Name of the Programme	Programme Code	Semester/ Year	Last date of the Last Semester- End/ Year-End Examination	Date of Declaration of Semester- End/ Year End Examination
50	MEd (Education)	EDL	May-20	15.07.2020	Result not Declared
51	MA (Education)	EDL	May-20	13.07.2020	Result not Declared
52	MA Sanskrit	SKS	May-20	09.10.2020	18.11.2020
53	BA (Hons. School) Punjabi	PBL	May-20	01.10.2020	28.10.2020
54	MA Punjabi	PBL	May-20	05.10.2020	09.11.2020
55	MA English	ENG	May-20	08.10.2020	04.12.2020
56	MA Hindi	HIN	May-20	09.10.2020	24.11.2020
57	MA Business Economics	EDL	May-20	07.10.2020	27.11.2020
58	BSc (Hons. School) Economics	EDL	May-20	09.10.2020	26.10.2020
59	MSc (Hons. School) Economics	EDL	May-20	07.10.2020	09.11.2020
60	MCom (FYIC)	MGL	May-20	08.10.2020	02.12.2020
61	BCom (HS)	MGL	May-20	08.10.2020	26.11.2020
62	MBA	MGL	May-20	08.10.2020	09.11.2020
63	MCom	MGL	May-20	05.10.2020	27.10.2020
64	MBA (FYIC)	MGL	May-20	08.10.2020	09.11.2020
65	MBA	MGL	May-20	08.10.2020	02.12.2020
66	MBA	MGL	May-20	08.10.2020	23.11.2020
67	MBA	MGL	May-20	08.10.2020	26.11.2020
68	MBA	MGL	May-20	08.10.2020	09.11.2020
69	BA LLB (FYIC)	LAW	May-20	05.10.2020	27.10.2020
70	LLM (One Year Course)	LAW	May-20	09.10.2020	Result Awaited
71	LLB (TYC)	LAW	May-20	09.10.2020	29.10.2020
72	BPEd	PHE	May-20	05.10.2020	28.12.2020
73	BPES	PHE	May-20	03.10.2020	10.02.2021
74	MPed	PHE	May-20	30.09.2020	15.12.2020
75	Master in Hospital Administration	SPL	May-20	01.10.2020	23.10.2020
76	MPT	SPL	May-20	30.09.2020	28.10.2020
77	MSc	SPL	May-20	01.10.2020	23.10.2020
78	MSc	SPL	May-20	01.10.2020	23.10.2020
79	MA	SPL	May-20	01.10.2020	23.10.2020
80	BTech	MEL	May-20	09.05.2020	17.10.2020
81	BTech	CYL	May-20	14.05.2020	19.07.2020
82	BSc (HS)	AGL	May-20	07.05.2020	15.07.2020



**Annexure-XII**  
**Pass Percentage of Students for Academic Year (2019-20)**

Sr.no	Programme Code	Program Name	Programme Specialization	Number of Students appeared in the final year examination	Number of students passed in final semester\ year examination	Pass Percentage
1	PBL	B.A. (Hons. School) Punjabi, 6th-Semester	Punjabi	18	17	94.44
2	SSL	B.A. (Hons.) Social Sciences, 6th Semester	Social Science	69	65	94.2
3	LAW	B.A. LL.B. (Five Years Course), 6th Semester	Law	82	82	100
4	LAW	B.A. LL.B. (Hons.)-FYIC, 10th Semester	Law	100	93	93
5	EDL	B.Sc (Hons.School) Economics, 6th-Semester	Economics	46	46	100
6	CYL	B.Sc. (Hons.School) Chemistry, 6th Semester	Chemistry	71	71	100
7	PHL	B.Sc.(Honours School) Physics, 6th Semester	Physics	56	55	98.21
8	HGL	B.Sc.(Hons.School)Human Genetics, 6th Semester	Human Genetics	22	22	100
9	ECL	B.Tech (Electronics & Comm. Engg.)-8th Semester	Electronics & Comm.	97	92	94.85
10	CEL	B.Tech. (Computer Science & Engg.)-8th Semester	Computer Science & Engg.	196	192	97.96
11	FTL	B.Tech. (Food Technology)- 8th Semester	Food Technology	41	41	100
12	HPL	B.Tech. (Urban & Regional Planning)-8th Semester	Urban & Regional Planning	18	18	100
13	ARL	Bachelor of Architecture-10th Semester	Achitecture	76	76	100
14	LAW	Bachelor of Laws (Three Year Course ), 6th Semester	Law	73	66	90.41
15	CHL	Bachelor of Pharmacy, 8th Semester	Pharmacy	37	36	97.3
16	MIL	Bachelor of Tourism & Travel Management, 8th Semester	Tourism & Travel Mgmt.	12	12	100
17	CSL	Master of Computer Applications (FYIC), 6th Semester	Computer Science	47	46	97.87
18	CSL	Master of Computer Applications(TYC), 6th-Semester	Computer Science	65	65	100
19	MGL	Masters of Business Administration (FYIC), 10th-Semester	Business Mgmt.	31	31	100
20	MGL	Masters of Business Administration (FYIC), 6th-Semester	Business Mgmt.	86	85	98.84
21	LIB	Bachelor of Library and Information Science (Hons.), Semester-II	Library and Information Science	10	10	100
22	EDL	M.A. (Business Economics), 4th Semester	Business Economics	13	13	100
23	MGL	M.B.A. (Financial Analysis), 4th Semester	Financial Analysis	55	55	100
24	MGL	M.B.A. (Marketing Management), 4th Semester	Marketing	46	46	100
25	MUL	M.P.A. Music (Instrumental), 4th Semester	Instrumental	11	11	100
26	MUL	M.P.A. Music (Vocal), 4th Semester	Vocal	15	14	93.33
27	FTL	M.Sc. (Food Technology), 4th Semester	Food Technology	34	34	100



Sr.no	Programme Code	Program Name	Programme Specialization	Number of Students appeared in the final year examination	Number of students passed in final semester\ year examination	Pass Percentage
28	CYL	M.Sc. (Hons.School) Chemistry, 4th Semester	Chemistry	41	41	100
29	HGL	M.Sc. (Honours School) Human Genetics, 4th Semester	Human Genetics	10	10	100
30	EDL	M.Sc. (Hons. School) Economics, 4th-Semester	Economics	64	64	100
31	PHL	M.Sc. (Hons. School) Physics, 4th-Semester	Physics	40	40	100
32	CYL	M.Sc. Applied Chemistry (Pharmaceuticals), 4th Semester	Pharmaceuticals	90	90	100
33	BTL	M.Sc. Biotechnology, 4th Semester	Biotechnology	24	24	100
34	BSL	M.Sc. Botany, 4th Semester	Botony	60	60	100
35	CYL	M.Sc. Chemistry, 4th Semester	Chemistry	134	134	100
36	BSL	M.Sc. Environmental Sciences, 4th Semester	Environmental Sciences	25	25	100
37	HGL	M.Sc. Human Genetics, 4th Semester	Human Genetics	28	28	100
38	MTL	M.Sc. Mathematics, 4th Semester	Mathematics	78	78	100
39	MCL	M.Sc. Microbiology, 4th Semester	Microbiology	49	49	100
40	MBL	M.Sc. Molecular Biology & Biochemistry, 4th Semester	Molecular Biology & Biochemistry	37	37	100
41	PHL	M.Sc. Physics, 4th Semester	Physics	61	61	100
42	ZOL	M.Sc. Zoology, 4th Semester	Zoology	55	55	100
43	CEL	M.Tech. (Computer Science & Engineering) Two Year Course, 4th Semester	Computer Science	25	25	100
44	ECL	M.Tech. (ECE*) Specialization (Communication Systems), 4th Semester	Communication Systems	8	8	100
45	ARL	Master of Architecture (Urban Design), 4th Semester	Urban Design	3	3	100
46	ENG	Master of Arts in English, 4th Semester	English	44	44	100
47	HIN	Master of Arts in Hindi, 4th Semester	Hindi	26	24	92.31
48	HIS	Master of Arts in History, 4th Semester	History	23	23	100
49	GNL	Master of Arts in Philosophy, 4th-Semester	Philosophy	4	4	100
50	POL	Master of Arts in Political Science, 4th Semester	Political Science	41	41	100
51	PYL	Master of Arts in Psychology, 4th Semester	Psychology	94	94	100
52	PBL	Master of Arts in Punjabi, 4th Semester	Punjabi	43	43	100
53	GNL	Master of Arts in Religious Studies, 4th Semester	Religious Studies	12	12	100
54	SKS	Master of Arts in Sanskrit, 4th Semester	Sanskrit	8	8	100
55	SOL	Master of Arts in Sociology, 4th Semester	Sociology	12	12	100



Sr.no	Programme Code	Program Name	Programme Specialization	Number of Students appeared in the final year examination	Number of students passed in final semester\ year examination	Pass Percentage
56	MGL	Master of Business Administration, 4th-Semester	Business Mgmt.	121	121	100
57	MGL	Master of Commerce, 4th-Semester	Commerce	110	110	100
58	LIB	Master of Library & Information Science, 2nd Semester	Library and Information Science	9	9	100
59	SQL	M.Sc. (Sports Nutrition), Semester - IV	Sports Nutrition	6	6	100
60	SQL	M.A. (Sports Psychology), Semester - IV	Sports Psychology	2	2	100
61	SQL	M.Sc. (Exercise & Sports Physiology), Semester - IV	Exercise & Sports Physiology	4	4	100
62	SQL	M.P.T. (Sports Physiotherapy), Semester - IV	Sports Physiotherapy	25	25	100
63	SPL	Masters in Physiotherapy (Orthopedics), Semester - IV	Orthopedics	32	30	93.75
64	GUL	Master of Planning (Urban), Semester - IV	Urban	46	44	95.65
65	SQL	Masters in Hospital Administration, Semester - IV	Hospital Administration	17	17	100
66	MGL	M.B.A. (human Resource Development), Semester - IV	Human Resource Development	25	25	100
67	MGL	Master of Business Administration (Finance), Semester - IV	Finance	58	58	100
68	CHL	Master of Pharmacy, Semester - IV	Pharmacy	17	17	100
69	GUL	Master of Planning (Infrastructure), Semester - IV	Infrastructure	15	14	93.33
70	PHE	BPES	Physical Education	14	14	100.00
71	PHE	BPED	Physical Education	83	83	100.00
72	PHE	MPEd	Physical Education	65	65	100.00
73	LAW	LLM	Law	36	36	100.00
74	LAW	LLB	Law	82	82	100.00
75	SPL	Bachelor of Physiotherapy (BPT)	Physiotherapy	49	49	100.00
76	SPL	MPT	Orthopedics	32	32	100.00
77	CYL	MSc	Applied Chemistry(Pharmaceuticals)	90	90	100.00
78	EDL	MA (Education)	Education	5	5	100.00
79	EDL	MEd (Education)	Education	23	23	100.00
80	MIL	MBA	Hospital Administration	31	31	100.00
81	ARL	MArch	Urban Design	3	3	100.00

**Annexure-XIII****Teachers Awarded National/International Fellowship for Advanced Studies/ Research during the Academic Year (2019-20)****National**

Sr. no	Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
1	National	Dr. Gurcharan Kaur	BK Bacchawat Life time Achievement Award	2020	Indian Academy of Neurosciences
2	National	Dr. Jatinder Kaur	Best Women Young Scientist Award in Biological Sciences - 2019 (Educational Excellence Awards in Higher Education (2018-2019))	2019	PEARL (A Foundation For Educational Excellence)
3	National	Dr. Manpreet Singh Bhatti	Member, Principal Scientific Adviser (PSA) Consultative Group on Water	2019	Govt. of India
4	National	Dr. Manpreet Singh Bhatti	Member, Technical Committee, Punjab State Wetland Authority	2019	Govt. of India
5	National	Dr. Manpreet Singh Bhatti	INSPIRE Fellowship to Aditi Sugha	2019	DST, Govt. of India
6	National	Dr. Manpreet Singh Bhatti	Fellow	2020	National Environmental Science Academy, New Delhi
7	National	Dr. Manpreet Singh Bhatti	Fellow (F-1267503)	2020	The Institution of Engineers (India)
8	National	Sachin Kumar	Best poster Award at 3rd International Conference on Condensed Matter and Applied Physics	2019	Department of Physics, Gov.Engg College Bikaner.
9	National	Dr. Vandana Bhalla	Indian national sciences Academy teacher award	2020	INSA
10	National	Dr. Varinder Kaur	Young Engineer Award	2020	PEARL Foundation Educational Excellence Awards
11	National	Dr. Sumneet Kaur	7th International Conference on Applied Science, Engineering and Technology	2019	ICASET
12	National	Dr. Maninder Kaur	Awarded second prize for oral presentation at National conference on- New Horizon in Food Processing Technology and Nutritional	2019	Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur
13	National	Dr. Amritpal Kaur	India Research excellence-Citation	2019	Web Of Science Group
14	National	Dr. Amritpal Kaur	Prof M P Khare memorial Award	2019	Prof M P Khare memorial Award
15	National	Dr. Mohan Kumar	Teachers Training Programme	2020	Goethe-Institute, New Delhi



Sr. no	Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
16	National	Dr. Mohubat Singh	Vichar Goshti Rohani Rahit	2019	Baba Sucha Singh Gurmat Sangeet Academy, Jandiala Guru, Amritsar, 11-12 May 2019
17	National	Dr. Mohubat Singh	Sammelan Jagat Gur Baba	2019	Sri Guru Nanak Dev Ji Inter Religious Foundation, Chandigarh, 21 April, 2019
18	National	Dr. Sunil	Sahityaratan	2019	Vishwa Hindi Sahitya Sansthan, Paryagraj
19	National	Dr. Sunil	Vilaxna Samaj Sarthi Samman	2019	Vilaxna Ek Sarthak Pahal Samiti, Ajaib (Rohtak)
20	National	Dr. Sunil	Saksharta Prahari Samman	2020	Dr Yadvendernath Memorial Trust
21	National	Dr. Sunil	Iconic Personality Award	2020	Purwar Achievers Foundation, Delhi
22	National	Dr. Sunil	Kalam Vibhuti Samman	2020	Indian National Journalist Federation, Prayagraj
23	National	Dr. T.D. Narang	Prestigious Scientist Award	2019	International Award Committee
24	National	Dr. Rajesh Sharma	Salaam-e-Himmat	2019	Great Sports and Culture Club India
25	National	Dr. Rajesh Sharma	Award of Excellence	2019	Rotary Club RI distt 3070, ASR
26	National	Dr. Rajesh Sharma	Nation Builder Award	2019	Rotary international distt 3070
27	National	Dr. Rajesh Sharma	Guest of Honour Award	2019	Ik shaam Punjabiyat de Naam, cultural event, virsa vihal, ASR.
28	National	Dr. Rajesh Sharma	Special Honour	2019	Dr. Raj Kumar Verka, Padam shri Puran wadali, ASR
29	National	Dr. Rajbir Bhatti	Associate Editor	2019	Frontiers in Pharmacology
30	National	Dr. Rajbir Bhatti	Travel award to PhD	2019	International Society for Neurochemistry
31	National	Dr. Aman Mahajan	International collaboration/ Exchange Programme	2019	INSA
32	National	Dr. Swati Mehta	ISEF-KFAS	2019	KFAS
33	National	Dr. Raminder Kaur	Satwinder kaur uppal Yadgiri sanman	2019	Avtar singh uppal Ate Parvachn Adara
34	National	Dr. Darya	Ekam sahit sanman	2019	Ekam sahit manch , amritsar
35	National	Dr. Darya	Gyani heera singh dard puraskar	2020	Great sports cultural club, India (regd)



Sr. no	Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
36	National	Rachana Sharma	Certification of Appreciation	2020	DATRI - Dr Nezh Cereb
37	National	Dr. Vikram	Best Researcher	2019	Amaravathi Research Academy
38	National	Dr. Vikram	Award	2020	ESN Research Group
39	National	Dr. Pavleen Kaur	Best Paper Award	2020	IMS, Ghaziabad
40	National	Dr. Syed Raihan Hasan Rizvi	Uttar Pradesh Urdu Academy Award (Tajziyat Bayaad-E-Hasan Mosanna	2019	Uttar Pradesh Urdu Academy
41	National	Dr Puja Ohri	Fellow	2019	NSI, IARI New Delhi

#### International

Sr. no	Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
1	International	Dr. Manpreet Singh Bhatti	Lifetime Achievement Award	2019	Marquis Who Who, USA
2	International	Dr. Manpreet Singh Bhatti	Academic Editor, PLOS One	2019	Public Library of Science, USA
3	International	Dr. Venus Singh Mithu	Manfred Eigen Postdoctoral Fellowship	2020	Max Planck Society, Germany
4	International	Dr. Prabhsimran Singh	IFIP Travel Grant	2019	IFIP
5	International	Dr. Sumneet Kaur	23rd World Conference on Applied Science, Engineering and Technology - Melbourne Australia	2019	WCASET
6	International	Dr. Gagandeep Kaur Gahlay	Indo-US Fellowship for Women in STEMM	2019	Indo-US Science and Technology Forum



#### Annexure XIV

#### Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and Other Fellows in the Institution Enrolled during the Academic Year (2019-20)

Sr. No.	Name of Research Fellowship	Duration in Day of the Fellowship	Funding Agency	No. of Students
1	Post-Doctoral (Dr. Kothari Post-Doctoral Fellowship)	730	UGC	1
2	SRF	1095	ICMR	4
3	SRF	1095	MOFPI	1
4	SRF	730	CSIR	2
5	JRF	1095	UGC	48
6	JRF	730	CSIR	6
7	JRF	186	DBT	2
8	JRF	730	MOFPI	1
9	MANF	1825	UGC	7
10	ICMR-JRF	730	ICMR	3
11	RGNF for SC	1095	UGC	5
12	RUSA 2.0	730	Ministry of Human Resource Development (MHRD)	7
13	INSPIRE	1825	DST (INSPIRE)	4
14	DST-SERB Project	1825	DST-SERB Govt. of India	1
15	Project Fellow	730	University-Industrial Linkage Project	2
16	DST-Purse Project	1825	DST-Purse	7
17	Awarded Prime Ministership Fellowship	730	PMF	2
18	UGC-BSR	1825	UGC	6
19	Agri-Innovative Fellow	186	PSCST	1
20	CISR	730	UGC	1
21	NFSC	1825	UGC	4
22	DST-JRF	730	DST Sponsored Research Project	1



## Annexure-XV

## Research Funds Sanctioned and Received from Various Agencies, Industry and Other Organisations Academic Year 2019-20

Sr.No	Nature of Project	Duration in Day	Name of the funding agency	Total Grant Sanctioned (Rupees in Lakhs)	Amount Received during the year
1	Elucidating the Mechanism of Interaction of Calmodulin with a sorghium Glycine-Rich RNA- Binding Protein- Dr. Prabhjeet Singh, Deptt. of Biotechnology	1095	SERB	49.80	26.12
2	Magnetically Driven Ferroelectricity and Magneto electric Coupling in Bulk and Nano Fibrous Mats of ReFeO <sub>3</sub> -PbTiO <sub>3</sub> Solid Solutions- Dr. Anupinder Singh, Deptt. of Physics	1095	SERB	34.48	18.72
3	Synthesis of $\pi$ -Conjugated Chromophores and materials science related applications- Dr. Kamaljit Singh, Deptt. of Chemistry	1095	SERB	39.16	15.78
4	Electromagnetic non linear waves in multicomponent space Plasmas- Dr. N.P.S. Saini, Deptt. of Physics	1095	SERB	18.26	6.15
5	Targeting Alzheimers Disease cascade: Rational Design, Synthesis and Biological studies of New molecules against $\beta$ -Secretase, $\gamma$ -Secretase, Acetyl Choline Esterase and serine/threonine Kinase- Dr. Palwinder Singh, Deptt. of Chemistry	1095	SERB	44.80	18.33
6	Neurocognitive correlates of childhood and adolescent obesity search for potential bio markers and interventions- Dr. Gurcharan Kaur, Deptt. of Biotechnology	1095	DST	57.11	20.56
7	Novel concepts for developing efficient cellulolytic cocktail for hydrolysis of bio-refinery relevant pretreated lignocellulosics by Dr.B.S.Chadha, Deptt of Microbiology	1095	DBT	105.68	38.54
8	The Issue of Female infanticide/foeticide among the religious groups of the Punjab	365	ICSSR	3.00	2.10
9	Green Banking for Sustainable development - studies of banking sector in Punjab	730	ICSSR	5.00	2.00
10	Luminescent and Magnetic Coordination Polymers of d and f Block metal Ions Employing Fully Substituted Pyridine Carboxamides	1095	CSIR	4.83	4.83
11	Organocatalytic Enantioselective Construction of Quaternary Stereocenters: Access to Biologically Relevant Molecules	1095	CSIR	10.68	10.68
12	Development of Substrate Analogues for Altering the Specificity of Cyclooxygenase-2: A New Approach for Managing Inflammation	1095	CSIR	10.68	10.68
13	Active materials: A Search for New Solid State Emitters	1095	CSIR	10.68	10.68
14	Identification and Characterization of Salt-Induced Cyclophilins from a Stress Tolerant Penicillium Strain and their Implications in Stress Tolerance	1095	CSIR	10.53	10.53
15	Secondary Agriculture Entrepreneurial Network in Punjab - Joint Partnership - for Six Month	180	PSCST	1.80	1.80

**Annexure-XVI****Awards for Innovation Won by Institution/Teachers/Research scholars/Students during the Academic Year 2018-19**

Sr.no	Title of the innovation	Name of awarded	Awarding Agency	Date of award	Category
1	Identification and Characterization of Salt-induced Cyclophilins from a Stress Tolerant Penicillium strain and their Implications in Stress Tolerance	Prof. Prabhjeet Singh	CSIR	2019-2022	Professor
2	Elucidating the Mechanism of Interaction of Calmodulin with a Sorghum Glycine-Rich RNA-Binding Protein	Prof. Prabhjeet Singh	DST-SERB	2019-2022	Professor
5	Winner of best out of waste competition	Research Scholar	Guru Nanak Dev University.Asr	2019	Research Scholar
6	Best poster award (2 <sup>nd</sup> )	Jaskaran Kaur	International conference on “Environmental analysis India” Organized by SELECTBI	2019	Research Scholar
7	Travel Grant Award	Jaskaran Kaur	Awarded with 450 GBP by SEGHas a financial assistance to participate and present her paper (poster presentation)	2019	Research Scholar
8	IPSC Research Student Sponsored Award	Mudassir Ahmad Bhat	SRM Institute of Science and Technology, Chennai, India.	2019	Research Scholar
9	Best paper award (oral presentation) and a cash prize of Rs 2,500/-	Astha Bhatia	Chitkara University Doctoral Consortium (CUDC-2019), organized by Chitkara University, Punjab, India.	2019	Research Scholar
10	Best Poster award	Soubam Indra Kumar Singh	Ministry of Science & Technology Govt. of India and Ministry of Earth Sciences Govt. of India,Culcutta.	2019	Research Scholar
11	Best poster Award (2 <sup>nd</sup> prize)	Kritika Pandit	Golden Jubilee National Symposium on Current Interventions to plants and microbes for environmental and Agricultural Sustainability (CIPME-2019)	2019	Research Scholar



Sr.no	Title of the innovation	Name of awarded	Awarding Agency	Date of award	Category
12	INSA Teacher Award	Dr. Vandana Bhalla	Indian National Science Academy	2020	Associate Professor
13	Best poster presentation award	Puneet Kaur	National science on crystallography 47, Bhabhi Atomic Research Center, Mumbai	2019	Research Scholar
14	Young Scientist Award	Mandeep Kaur	Punjab Science Congress, Sangrur	2020	Research Scholar
15	Best poster presentation award	Jyoti	FIST-2020	2020	Research Scholar
16	Best Oral Presentation at National Conference on New Horizon in Food Processing Technology & Nutrition.	Dr. Maninder Kaur	SLIET, Longowal	2019	Assistant Professor
17	India Research Excellence-Citation Award in Agricultural Sciences	Dr. Amritpal Kaur	Clarivate Analytics	2019	Assistant Professor
18	Minor Research Project	Dr. Harneet Kaur	ICSSR, New Delhi	2019	Assistant Professor



**Anneuxre-XVII**  
**Research Publications in the Journal Notified on UGC Website during the Academic**  
**Year 2019-20**

Sr. No.	Department	No. of Publication	Average Impact Factor, if any
1	Agriculture	4	-
2	Botanical & Environmental Sciences	3	-
3	Chemistry	1	-
4	Computer Science	1	-
5	Department of Education	21	-
6	English	3	-
8	Food Science & Technology	2	-
9	Guru Nanak Studies	3	-
10	Guru Ramdas School of Planning	4	-
11	Hindi	25	-
12	Library & Information Science	4	-
13	Microbiology	1	-
14	Molecular Biology & Biochemistry	1	-
15	Music	5	-
16	MYAS-GNDU Department of Sports Sciences and Medicine	2	-
17	Pharmaceutical Sciences	5	-
18	Psychology	19	-
19	Punjab School of Economics	10	-
20	Sanskrit, Pali & Prakrit	8	-
21	School of Social Sciences	6	-
22	Sociology	5	-
23	University Business School	21	-
24	University School of Financial Studies	10	-
25	Urdu & Persian	12	-
26	School of Punjabi Studies	11	-
27	Physics	1	-
28	Political Science	1	-
29	Mathematics	3	-
30	Zoology	6	-



**INTERNATIONAL**

<b>Sr. No.</b>	<b>Department</b>	<b>No. of Publication</b>	<b>Average Impact Factor, if any</b>
1	Agriculture	5	-
2	Architecture	5	-
3	Biotechnology	20	-
4	Botanical & Environmental Sciences	145	-
5	Chemistry	195	-
6	Civil Engineering (UIT)	6	-
7	Computer Engineering & Technology	47	-
8	Computer Science	19	-
9	Department of Education	38	-
10	Department of Physiotherapy	15	-
11	Electronics Technology	80	-
12	English	1	-
13	Food Science & Technology	81	-
14	Guru Nanak Studies	3	-
15	Guru Ramdas School of Planning	5	-
16	Hindi	9	-
17	History	2	-
18	Hotel Management & Tourism	4	-
19	Human Genetics	37	-
20	Mathematics	26	-
21	Mechanical Engineering (UIT)	16	-
22	Microbiology	17	-
23	Molecular Biology & Biochemistry	40	-
24	Music	13	-
25	MYAS-GNDU Department of Sports Sciences and Medicine	19	-
26	Pharmaceutical Sciences	75	-
27	Physical Education	16	-
28	Physics	138	-
29	Psychology	9	-
30	Punjab School of Economics	10	-
31	Sanskrit, Pali & Prakrit	3	-
32	School of Punjabi Studies	7	-
33	School of Social Sciences	6	-
34	Sociology	2	-
35	University Business School	36	-
36	University School of Financial Studies	28	-
37	Zoology	47	-



**Annexure-XVIII**

**Books and Chapters in Edited Volumes / Books Published and Papers in National/  
International Conference Proceedings per Teacher during the Academic Year 2019-20**

Sr.No	Department	No. of Publications
1	Architecture	5
2	Botanical & Environmental Sciences	148
3	Chemistry	196
4	University School of Financial Studies	38
5	Punjab School of Economics	20
6	English	4
7	Guru Nanak Studies	6
8	History	2
9	Library & Information Science	4
10	Music	18
11	Pharmaceutical Sciences	80
12	Physics	139
13	Guru Ramdas School of Planning	9
14	Psychology	28
15	Physiotherapy	15
16	University Business School	57
17	Computer Science	20
18	Computer Engineering & Technology	47
19	Hindi	34
20	Mathematics	29
21	School of Punjabi Studies	18
22	Urdu & Persian	12
23	Tourism and Hospitality	4
24	Biotechnology	20
25	Food Science & Technology	83
26	Political Science	1
27	Sanskrit, Pali & Prakrit	11
28	School of Social Sciences	12
29	Sociology	7
30	Zoology	53
31	Mechanical Engineering (UIT)	16
32	Agriculture	9
33	Microbiology	18
34	MYAS-GNDU Department of Sports Sciences and Medicine	21
35	Civil Engineering (UIT)	6
36	Electronics Technology	80
37	Human Genetics	37
38	Physical Education	16



**Annexure-XIX**  
**Bibliometrics of the Publications during the Last Academic Year Based on Average Citation Index in Scopus/ Web of Science or PubMed/ Indian Citation Index 2019-20**

Sr. No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	Citation Index	Number of citations excluding self citation
1	Kanwar P.	Pubertal development and problem behaviours in Indian adolescents	International Journal of Adolescence and Youth	2020	-	-
2	Saini M., Chahal K.K., Verma R., Singh A.	Customer reviews as the measure of software quality	IET Software	2020	-	-
3	Lowdon J.W., Diliën H., Singla P., Peeters M., Cleij T.J., van Grinsven B., Eersels K.	MIPs for commercial application in low-cost sensors and assays – An overview of the current status quo	Sensors and Actuators, B: Chemical	2020	6	-
4	Shalini, Kumar S., Gendrot M., Fonta I., Mosnier J., Cele N., Awolade P., Singh P., Pradines B., Kumar V.	Amide Tethered 4-Aminoquinoline-naphthalimide Hybrids: A New Class of Possible Dual Function Antiplasmodials	ACS Medicinal Chemistry Letters	2020	2	-
5	Singh H., Chinna G.S., Singh A.	Integrated weed management in processing potato ( <i>Solanum tuberosum</i> L.) using straw mulching and herbicides	Agricultural Research Journal	2020	-	-
6	Rani Y., Kaur K., Sharma M., Kalia N.	In silico analysis of SNPs in human phosphofructokinase, muscle (PFKM) gene: An apparent therapeutic target of aerobic glycolysis and cancer	Gene Reports	2020	-	-
7	Sharma V., Bala M.	An Improved Task Allocation Strategy in Cloud using Modified K-means Clustering Technique	Egyptian Informatics Journal	2020	1	-
8	Gahlay G.K., Rajput N.	The enigmatic sperm proteins in mammalian fertilization: An overview	Biology of Reproduction	2020	-	-
9	Singh M., Singh M.L., Singh G., Kaur H., Priyanka, Kaur S.	Modeling and performance evaluation of underwater wireless optical communication system in the presence of different sized air bubbles	Optical and Quantum Electronics	2020	2	-
10	Kaur N., Arora D.S.	Prospecting the antimicrobial and antibiofilm potential of <i>Chaetomium globosum</i> an endophytic fungus from <i>Moringa oleifera</i>	AMB Express	2020	-	-
11	Kaur N., Arora D.S., Kalia N., Kaur M.	Bioactive potential of endophytic fungus <i>Chaetomium globosum</i> and GC-MS analysis of its responsible components	Scientific Reports	2020	1	-
12	Khajuria A., Ohri P.	Polyamines induced nematode stress tolerance in <i>Solanum lycopersicum</i> through altered physico-chemical attributes	Physiological and Molecular Plant Pathology	2020	-	-



Sr. No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	Citation Index	Number of citations excluding self citation
13	Kaur N., Kaur M., Mahajan M., Jain S.K.	Development, characterization and evaluation of nanocarrier based formulations of antipsoriatic drug "acitretin" for skin targeting	Journal of Drug Delivery Science and Technology	2020	1	-
14	Kaur J., Singh H.	Fabrication of composite material based nanogenerator for electricity generation enhancement of food waste by-product	Materials Chemistry and Physics	2020		-
15	Singh P.	Synthesis of novel benzocoronene tetracarboxdiimides for fluorescent imaging of latent fingerprints	Journal of Photochemistry and Photobiology A: Chemistry	2020	2	-
16	Singh S., Sharma S., Singh R.C., Sharma S.	Hydrothermally synthesized MoS <sub>2</sub> -multi-walled carbon nanotube composite as a novel room-temperature ammonia sensing platform	Applied Surface Science	2020	10	-
17	Chopra N., Chopra G., Kaur D.	Modeling the protein-nucleic acid base interactions through hydrogen-bonded complexes of N-heterocyclic analogs of Indene with amino acid side-chain mimics	Structural Chemistry	2020		-
18	Brahmi N., Singh P., Sohal M., Sawhney R.S.	Psychological trauma among the healthcare professionals dealing with COVID-19	Asian Journal of Psychiatry	2020	5	-
19	Kaur M., Kaur B., Kaur J., Kaur A., Bhatti R., Singh P.	Role of water in cyclooxygenase catalysis and design of anti-inflammatory agents targeting two sites of the enzyme	Scientific Reports	2020		-
20	Kaur N., Bhullar V., Singh D.P., Mahajan A.	Bimetallic Implanted Plasmonic Photoanodes for TiO <sub>2</sub> Sensitized Third Generation Solar Cells	Scientific Reports	2020	4	-
21	Chander H., Singh K.P.	Subject mapping of Punjabi language books: A bibliometric study	Annals of Library and Information Studies	2020	-	-
22	Sharma M., Kumar V., Mahey S., Bhardwaj R., Thukral A.K.	Antagonistic effects of EDTA against biochemical toxicity induced by Cr(VI) in <i>Hordeum vulgare</i> L. seedlings	Physiology and Molecular Biology of Plants	2020	-	-
23	Kour A., Sambyal V., Guleria K., Singh N.R., Uppal M.S., Manjari M., Sudan M.	In silico pathway analysis based on chromosomal instability in breast cancer patients	BMC Medical Genomics	2020	-	-
24	Shakthi Murugan K.H., Sharma A., Malhotra J.	Performance analysis of 80 Gbps Ro-FSO system by incorporating hybrid WDM-MDM scheme	Optical and Quantum Electronics	2020	-	-
25	Jain M., Kaur S.	(p,N)-Policy for Unreliable Server Bulk Queue with Bernoulli Feedback	International Journal of Applied and Computational Mathematics	2020	1	-
26	Sharma A., Bajaj P., Bhandari A., Kaur G.	From ayurvedic folk medicine to preclinical neurotherapeutic role of a miraculous herb, <i>Tinospora cordifolia</i>	Neurochemistry International	2020	-	-
27	Dar O.I., Sharma S., Singh K., Sharma A., Bhardwaj R., Kaur A.	Biomarkers for the toxicity of sublethal concentrations of triclosan to the early life stages of carps	Scientific Reports	2020	-	-



Sr. No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	Citation Index	Number of citations excluding self citation
28	Gauttam P., Singh B., Kaur J.	COVID-19 and Chinese Global Health Diplomacy: Geopolitical Opportunity for China's Hegemony?	Millennial Asia	2020	-	-
29	Kaur N., Sagar A., Sharma P., Ashish, Pati P.K.	Structural insights into rice SalTol QTL located SALT protein	Scientific Reports	2020	-	-
30	Thakur S., Thakur V., Kaur A., Singh L.	Synthesis and the study of structural, thermal and optical properties of (100-x)Bi <sub>2</sub> O <sub>3</sub> -x(BaO-TiO <sub>2</sub> ) glass system	Optik	2020	1	-
31	Kaur A., Dar Z.I., Singh N., Wasan A., Kumar S., Kaur P.	The five-level $\Lambda$ - $\Xi$ system as an optical switch under different wavelength mismatching regimes, including one due to Rydberg transition	Optik	2020		-
32	Singh B., Kaur N., Kumar P., Hallan V., Pati P.K.	Reactive oxygen species generating and scavenging systems play critical role in conferring leaf spot disease resistance in <i>Withania somnifera</i> (L.) Dunal	Industrial Crops and Products	2020	3	-
33	Shivani, Kaur I., Chemmanghattu K., Kaur P., Singh K.	Non-linear optical behavior of benzothiazole based chromophores: Second harmonic generation	Dyes and Pigments	2020	-	-
34	Datta R., Kaur A., Saraf I., Singh I.P., Kaur S.	Secondary Metabolites of <i>Alpinia galanga</i> Induce toxic Effects in Polyphagous Lepidopteran Pest, <i>Spodoptera litura</i> (Fabricius) [Sekundäre Metaboliten von <i>Alpinia galanga</i> induzieren toxische Wirkungen bei <i>Spodoptera litura</i> (Fabricius)]	Gesunde Pflanzen	2020	-	-
35	Karwasra B.L., Kaur M., Gill B.S.	Impact of ultrasonication on functional and structural properties of Indian wheat ( <i>Triticum aestivum</i> L.) cultivar starches	International Journal of Biological Macromolecules	2020	2	-
36	Kaur M., Sood S.K.	Hydro-meteorological hazards and role of ICT during 2010-2019: A scientometric analysis	Earth Science Informatics	2020		-
37	Kaur P., Khanna A., Fábán M.	Effects of annealing temperature on structural and photoluminescence properties of Eu, Dy and Sm doped CaWO <sub>4</sub> nanoparticles	Ceramics International	2020	2	-
38	Sambyal V., Kaur S., Manjari M., Uppal M.S., Singh N.R., Sudan M., Guleria K.	Linkage disequilibrium and haplotypes of five TP53 polymorphisms in oesophageal cancer patients	Journal of Genetics	2020		-
39	Singh P., Singh S., Sohal M., Dwivedi Y.K., Kahlon K.S., Sawhney R.S.	Psychological fear and anxiety caused by COVID-19: Insights from Twitter analytics	Asian Journal of Psychiatry	2020	4	-



Sr. No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	Citation Index	Number of citations excluding self citation
40	Kang L.S., Kaur G.	Personal Cognitive Factors Affecting Career Aspirations of Women Working in Financial Sector in India	Vision	2020	1	-
41	Sethi I., Sharma V., Sharma I., Singh G., Bhat G.R., Bhanwer A.J.S., Sharma S., Rai E.	Telomere Maintenance Genes are associated with Type 2 Diabetes Susceptibility in Northwest Indian Population Group	Scientific Reports	2020	2	-
42	Kalia N., Singh J., Rauniyar A.K., Kaur M.	A meta-analysis of mannose-binding lectin gene polymorphisms with the risk of recurrent vulvovaginal infections	Scientific Reports	2020	1	-
43	Manokamna, Paul S., Singh A., Singh K.L., Singh A.P.	Structural, thermal, electrical and dielectric properties of La <sub>1-x</sub> Sr <sub>x</sub> Mn <sub>0.50</sub> Fe <sub>0.50</sub> O <sub>3</sub> {0.10 ≤ x ≤ 0.40} cathode material for solid oxide fuel cells	Asian Journal of Chemistry	2020	-	-
44	Bansal S., Aggarwal M., Gill T.S.	Cylindrical and spherical ion acoustic shock waves with two temperature superthermal electrons in dusty plasma	European Physical Journal D	2020	-	-
45	Kumar N., Kumar A., Sahoo S.C., Chimni S.S.	Candida antarctica lipase-B-catalyzed kinetic resolution of 1,3-dialkyl-3-hydroxymethyl oxindoles	Chirality	2020	-	-
46	Nazir S., Simnani S., Sahoo B.K., Mishra R., Sharma T., Masood S.	Monitoring geothermal springs and groundwater of Pir Panjal, Jammu and Kashmir, for radon contamination	Journal of Radioanalytical and Nuclear Chemistry	2020	2	-
47	Kaushal R., Thakur A., Bhatia A., Arora S., Nehra K.	Synthesis, characterization, DNA-binding and biological studies of novel titanium (IV) complexes	Journal of Chemical Sciences	2020	-	-
48	Singh M., Malhotra J., Dhasarathan V.	A high-speed single-channel inter-satellite optical wireless communication link incorporating spectrum-efficient orthogonal modulation scheme	Microwave and Optical Technology Letters	2020	-	-
49	Kumar S., Saini A., Legac J., Rosenthal P.J., Raj R., Kumar V.	Amalgamating Isatin/Indole/Nitroimidazole with 7-chloroquinolines via azide-alkyne cycloaddition: Synthesis, anti-plasmodial, and cytotoxic evaluation	Chemical Biology and Drug Design	2020	2	-
50	Kumar Y., Pal J., Malhi P.S., Kumar R.	Enhanced electrical conductivity in Zr-Doped (La <sub>0.7</sub> Ba <sub>0.3</sub> )(Mn <sub>0.5</sub> Fe <sub>0.5</sub> )O <sub>3</sub> solid solutions	Journal of Advanced Dielectrics	2020	-	-
51	Sood H., Kumar Y., Gupta V.K., Arora D.S.	Bioprospecting the antimicrobial, antibiofilm and antiproliferative activity of Symplocos racemosa Roxb. Bark phytoconstituents along with their biosafety evaluation and detection of antimicrobial components by GC-MS	BMC Pharmacology and Toxicology	2020	-	-
52	Rattan A., Kapoor D., Kapoor N., Bhardwaj R., Sharma A.	Brassinosteroids Regulate Functional Components of Antioxidative Defense System in Salt Stressed Maize Seedlings	Journal of Plant Growth Regulation	2020	8	-
53	Wu Y.-J., Yu S.-T., Lai K.-C., Chhabra A., Chang H.-Y., Huang K.-C.	Two-level utilization-based processor allocation for scheduling moldable jobs	Journal of Supercomputing	2020	-	-



Sr. No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	Citation Index	Number of citations excluding self citation
54	Singh S., Jyoti, Arora B., Sahoo B.K., Yu Y.-M.	Magic wavelengths for optical-lattice based CS and RB active clocks	Atoms	2020		-
55	Kiran K., Mahey S., Sharma A., Kumar V., Sharma A., Arora S., Bharadwaj R., Kumar R.	Post-infectional changes associated with the progression of leaf spot disease in <i>Calotropis procera</i> Aiton	Physiological and Molecular Plant Pathology	2020	1	-
56	Pandey N.K., Singh S.K., Gulati M., Kumar B., Kapoor B., Ghosh D., Kumar R., Khursheed R., Awasthi A., Kuppusamy G., Wadhwa S., Satija S., Dureja H., Jain S.K., Chellappan D.K., Anand K., Mehta M., Dua K.	Overcoming the dissolution rate, gastrointestinal permeability and oral bioavailability of glimepiride and simvastatin co-delivered in the form of nanosuspension and solid self-nanoemulsifying drug delivery system: A comparative study	Journal of Drug Delivery Science and Technology	2020	1	-
57	Kaur J., Kumar R., Vohra R., Sawhney R.S.	Borospherene molecular junction-based sensor for detecting radium and radon in water	Journal of Materials Research	2020	-	-
58	Singh K., Saini N.S.	Breather Structures and Peregrine Solitons in a Polarized Space Dusty Plasma	Frontiers in Physics	2020	-	-
59	Bamola P., Singh B., Bhoumik A., Sharma M., Dwivedi C., Singh, M., Dalapati G.K., Sharma H.	Mixed-Phase TiO <sub>2</sub> Nanotube-Nanorod Hybrid Arrays for Memory-Based Resistive Switching Devices	ACS Applied Nano Materials	2020	-	-
60	Khanna A., Kaur A., Hirdesh, Tyagi S., Funnell N.P., Bull C.L.	In situ high pressure neutron diffraction and Raman spectroscopy of 20BaO-80TeO <sub>2</sub> glass	RSC Advances	2020	-	-
61	Kaur H., Kumar M., Bhalla V.	A photocatalytic ensemble HP-T@Au-Fe <sub>3</sub> O <sub>4</sub> : Synergistic and balanced operation in Kumada and Heck coupling reactions	Green Chemistry	2020	-	-
62	Kumar S., Kaur N., Mithu V.S.	Amphiphilic ionic liquid induced fusion of phospholipid liposomes	Physical Chemistry Chemical Physics	2020	2	-
63	Kaur R., Shiekh B.A., Banipal P.K., Banipal T.S.	Unraveling the binding and micellization behavior of dioctylsulfosuccinate Sodium Salt with vitamin B1 and B6: A physiochemical and computational study	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2020	-	-
64	Sharma B., Saha S.T., Perumal S., Gu L., Ebenezer O., Singh P., Kaur M., Kumar V.	Design, Synthesis, Antiproliferative Evaluation, and Molecular Docking Studies of N-(3-Hydroxyindole)-Appended $\beta$ -Carbolines/Tetrahydro- $\beta$ -Carbolines Targeting Triple-Negative and Non-Triple-Negative Breast Cancer	ACS Omega	2020	-	-



Sr. No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	Citation Index	Number of citations excluding self citation
65	Rani A., Johansen M.D., Roquet-Banères F., Kremer L., Awolade P., Ebenezer O., Singh P., Sumanjit, Kumar V.	Design and synthesis of 4-Aminoquinoline-isoindoline-dione-isoniazid triads as potential anti-mycobacterials	Bioorganic and Medicinal Chemistry Letters	2020	2	-
66	Kaur S., Grewal V.	A novel approach for particle swarm optimization-based clustering with dual sink mobility in wireless sensor network	International Journal of Communication Systems	2020	4	-
67	Singh R., Kesavan A.K., Landi M., Kaur S., Thakur S., Zheng B., Bhardwaj R., Sharma A.	5-aminolevulinic acid regulates Krebs cycle, antioxidative system and gene expression in Brassica juncea L. to confer tolerance against lead toxicity	Journal of Biotechnology	2020	3	-
68	Prajapati G.K., Gupta Y.K., John B.V., Joshi B.N., Kaur H., Kumar N., Danu L.S., Mukhopadhyay S., Dubey S., Jain S.R., Biswas D.C., Nayak B.K.	Temperature and isospin dependence of the level-density parameter in the $A \approx 110$ mass region	Physical Review C	2020	1	-
69	Dadwal S., Kumar M., Bhalla V.	"Metal-Free" Nanoassemblies of AIEE-ICT-Active Pyrazine Derivative: Efficient Photoredox System for the Synthesis of Benzimidazoles	Journal of Organic Chemistry	2020	-	-
70	Sohal M.K., Gasso S., Singh R.C., Mahajan A.	Influence of erbium doping on electrical properties and thermal sensitivity of tin oxide based temperature sensor	AIP Conference Proceedings	2020	-	-
71	Gupta N., Khanna A.	Thermal characteristics and short-range structure in $TiO_2TeO_2$ and $Bi_2O_3-TeO_2$ glasses: A comparative study	AIP Conference Proceedings	2020	-	-
72	Singh S., Sharma S.	Ammonia sensor using $MoS_2$ nanostructures synthesized via bottom-up approach	AIP Conference Proceedings	2020	-	-
73	Kaur R., Khanna A.	Structural and thermal properties of magnesium tellurite glasses	AIP Conference Proceedings	2020	-	-
74	Kaur J., Jain R.K., Khanna A.	Effects of oblique angle deposition on surface wettability of Sn metal thin films	AIP Conference Proceedings	2020	-	-
75	Hirdesh, Khanna A.	Thermal, structural and photoluminescence properties of $Eu^{3+}/Er^{3+}$ doped $Li_2O-TeO_2$ glasses	AIP Conference Proceedings	2020	-	-
76	Kaur N., Mahajan A., Singh D.P.	Up-converting rare earth phosphor yttrium doped $TiO_2$ material for dye sensitized solar cells application	AIP Conference Proceedings	2020	-	-
77	Wajhal S., Shinde A.B., Krishna P.S.R., Khanna A.	Evidence of strong correlation between local structures in glass and crystalline phase of lanthanum tellurite system	AIP Conference Proceedings	2020	-	-



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78	Navjyoti, Saxena V., Bhattacharya S., Singh A., Mahajan A., Muthe K.P.	Ambient-air fabrication with inorganic/polymer hole transport layer: Towards low cost perovskite solar cells	AIP Conference Proceedings	2020	-	-
79	Bhullar V., Mahajan A., Bedi R.K.	Electrospun 1D TiO <sub>2</sub> nanorods for enhancing the performance of dye sensitized solar cells	AIP Conference Proceedings	2020	-	-
80	Mewada R., Navjyoti, Saxena V., Choudhury S., Mahajan A., Singh A., Muthe K.P.	Low temperature processable crystalline WO <sub>3</sub> langmuir-blodgett ultra-thin film as blocking layer in solar cells application	AIP Conference Proceedings	2020	-	-
81	Kaur P., Khanna A., Singh M.N., Sinha A.K.	Investigation of structural and optical characteristics of CaWO <sub>4</sub> and BaWO <sub>4</sub> nanoparticles	AIP Conference Proceedings	2020	-	-
82	Kaur H., Sood S.K.	A Smart Disaster Management Framework for Wildfire Detection and Prediction	Computer Journal	2020	1	-
83	Kaur A., Sood S.K.	Artificial Intelligence-Based Model for Drought Prediction and Forecasting	Computer Journal	2020	1	-
84	Aggarwal N., Narang S.B.	Magnetic characterization of Nickel-Zinc spinel ferrites along with their microwave characterization in Ku band	Journal of Magnetism and Magnetic Materials	2020	6	-
85	Singh H., Bala M., Bamber S.S.	Augmenting network lifetime for heterogenous WSN assisted IoT using mobile agent	Wireless Networks	2020	2	-
86	Verma P., Sood S.K., Kaur H.	Corrigendum to 'A Fog-Cloud based cyber physical system for Ulcerative Colitis diagnosis and stage classification and management' [Journal Microprocessor and Microsystems, 72 (2020) /102929] (Microprocessors and Microsystems (2020) 72, (S0141933119302273), (10.1016/j.micpro.2019.102929))	Microprocessors and Microsystems	2020	-	-
87	Kumari M., Sharma R., Sheetal A.	Performance analysis of high speed backward compatible TWDM-PON with hybrid WDM-OCDMA PON using different OCDMA codes	Optical and Quantum Electronics	2020	-	-
88	Minhas A.S., Sharma N., Singh G., Kankar P.K., Singh S.	Improvement in classification accuracy and computational speed in bearing fault diagnosis using multiscale fuzzy entropy	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2020	1	-
89	Kaur A., Singh N., Bhatti M.S., Bhatti R.	Optimization of extraction conditions of Angelica archangelica extract and activity evaluation in experimental fibromyalgia	Journal of Food Science	2020	-	-
90	Kaur R., Khanna A., Fábíán M.	Neutron diffraction investigation of strontium tellurite glass, anti-glass and crystalline phases	Phase Transitions	2020	-	-



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91	Singh B., Kumar A., Singh H., Kaur S., Kaur S., Singh Buttar H., Arora S., Singh B.	Zingerone produces antidiabetic effects and attenuates diabetic nephropathy by reducing oxidative stress and overexpression of NF- $\kappa$ B, TNF- $\alpha$ , and COX-2 proteins in rats	Journal of Functional Foods	2020	1	-
92	Dowarah J., Marak B.N., Lalhruaizela B.N., Sran B.S., Singh V.P.	Design, Synthesis, In Silico Analysis, and Structural Study of 4,6-Dimethyl-2-(3-(p-tolyloxy)propoxy)nicotinonitrile Fleximer	Crystal Research and Technology	2020	1	-
93	Guleria S., Joshi R., Singh D., Kumar S.	Identification of host factors limiting the overexpression of recombinant Cu, Zn superoxide dismutase in Escherichia coli	Biotechnology Letters	2020	1	-
94	Sharma M., Sharma S., Singh G.	Remote monitoring of physical and mental state of 2019-nCoV victims using social internet of things, fog and soft computing techniques	Computer Methods and Programs in Biomedicine	2020	4	-
95	Lobana T.S., Kaushal M., Bala R., Nim L., Paul K., Arora D.S., Bhatia A., Arora S., Jasinski J.P.	Di-2-pyridylketone-N1-substituted thiosemicarbazone derivatives of copper(II): Biosafe antimicrobial potential and high anticancer activity against immortalized L6 rat skeletal muscle cells	Journal of Inorganic Biochemistry	2020	-	-
96	Duhan M., Kumar N., Gupta A., Singh A., Kaur H.	Enhanced room temperature ferromagnetism in Cr and Fe co-doped SnO <sub>2</sub> nanoparticles synthesized by sol-gel method	Vacuum	2020	1	-
97	Punia S., Sandhu K.S., Dhull S.B., Kaur M., Siroha A.K.	Kinetic, rheological and thermal studies of flaxseed ( <i>Linum usitatissimum</i> L.) oil and its utilization	Journal of Food Science and Technology	2020	-	-
98	Kaur H., Singh L., Chibale K., Singh K.	Structure elaboration of isoniazid: synthesis, in silico molecular docking and antimycobacterial activity of isoniazid-pyrimidine conjugates	Molecular Diversity	2020	1	-
99	Singh M., Malhotra J., Atieh A., Kakati D., Vigneswaran D.	Investigation of 340-Gbps terrestrial FSO link incorporating spectral-efficient DP-QPSK-PolSK hybrid modulation scheme	Optical Engineering	2020	1	-
100	Prasher P., Singh B., Singh K.	Novel Use of Trypan Blue Dye to Stain Fungus in Corneal Scrapings in Eye Clinics	Cornea	2020	-	-
101	Jan S., Singh R., Bhardwaj R., Ahmad P., Kapoor D.	Plant growth regulators: a sustainable approach to combat pesticide toxicity	3 Biotech	2020	-	-
102	Singla P., Garg S., Bhatti R., Peeters M., Singh O., Mahajan R.K.	Solubilization of hydrophobic drugs clozapine and oxcarbazepine in the lower and higher molecular weight pluronic mixed micelles-a physicochemical, In vitro release and In vitro anti-oxidant study	Journal of Molecular Liquids	2020	3	-
103	Nain V., Kaur M., Sandhu K.S., Thory R., Sinhmar A.	Development, characterization, and biocompatibility of zinc oxide coupled starch nanocomposites from different botanical sources	International Journal of Biological Macromolecules	2020	2	-



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104	Boukhalov D.W., Zhidkov I.S., Kukhareenko A.I., Cholakh S.O., Jain R.K., Khanna A., Kurmaev E.Z.	X-ray photoelectron spectra and electronic structure of Mo doped V2O5	Thin Solid Films	2020		-
105	Alam P., Kohli S.K., Al Balawi T., Altalayan F.H., Alam P., Ashraf M., Bhardwaj R., Ahmad P.	Foliar application of 24-epibrassinolide improves growth, ascorbate-glutathione cycle, and glyoxalase system in brown mustard ( <i>Brassica juncea</i> (L.) Czern.) under cadmium toxicity	Plants	2020	2	-
106	Sivakumar P., Boopathi C.S., Sumithra M.G., Singh M., Malhotra J., Grover A.	Ultra-high capacity long-haul PDM-16-QAM-based WDM-FSO transmission system using coherent detection and digital signal processing	Optical and Quantum Electronics	2020		-
107	Yadav R., Bhatti M.S., Kansal S.K., Das L., Gilhotra V., Sugha A., Hingmire D., Yadav S., Tandon A., Bhatti R., Goel A., Mandal T.K.	Comparison of ambient air pollution levels of Amritsar during foggy conditions with that of five major north Indian cities: multivariate analysis and air mass back trajectories	SN Applied Sciences	2020	1	-
108	Singh C., Nikolic M.V., Narang S.B., Sombra A.S.B., Zhou D., Trukhanov S., Panina L., Singh J., Trukhanov A.	Complex permittivity and complex permeability characteristics of Co-Ti doped barium strontium hexaferrite/paraffin wax composites for application in microwave devices	Applied Physics A: Materials Science and Processing	2020	-	-
109	Prasher P., Sharma M., Aljabali A.A.A., Gupta G., Negi P., Kapoor D.N., Singh I., Zacconi F.C., de Jesus Andreoli Pinto T., da Silva M.W., Bakshi H.A., Chellappan D.K., Tambuwala M.M., Dua K.	Hybrid molecules based on 1,3,5-triazine as potential therapeutics: A focused review	Drug Development Research	2020	2	-
110	Singh H., Kaur K., Singh M., Kaur G., Singh P.	Plant Cyclophilins: Multifaceted Proteins With Versatile Roles	Frontiers in Plant Science	2020	1	-
111	Pan D., Arora B., Yu Y.-M., Sahoo B.K., Chen J.	Optical-lattice-based Cs active clock with a continual superradiant lasing signal	Physical Review A	2020		-
112	Singh G.P., Singh J., Kaur P., Kaur S., Arora D., Kaur R., Singh D.P.	Comparison of structural, physical and optical properties of Na2O-B2O3 and Li2O-B2O3 glasses to find an advantageous host for CeO2 based optical and photonic applications	Journal of Non-Crystalline Solids	2020	2	-
113	Kohli N., Hastir A., Kumari M., Singh R.C.	Hydrothermally synthesized heterostructures of In2O3/MWCNT as acetone gas sensor	Sensors and Actuators, A: Physical	2020	1	-



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114	Singh A., Sharma S., Arora S., Attri S., Kaur P., Kaur Gulati H., Bhagat K., Kumar N., Singh H., Vir Singh J., Mohinder Singh Bedi P.	New coumarin-benzotriazole based hybrid molecules as inhibitors of acetylcholinesterase and amyloid aggregation	Bioorganic and Medicinal Chemistry Letters	2020	-	-
115	Kaur P., Kaur S., Kriti, Arora D., Vashishtha P., Gupta G., Chen C.-L., Dong C.-L., Asokan K., Singh D.P.	Excitation induced enhancement of spectral response and energy transfer mechanisms in Fe/Sm modified ZnO phosphors	Journal of Applied Physics	2020	-	-
116	Kalsi T., Mitra H., Roy T.K., Godara S.K., Kumar P.	Comprehensive Analysis of Band Gap and Nanotwinning in Cd1- xMgx QDs	Crystal Growth and Design	2020	-	-
117	Priya B., Malhotra J.	An intelligent user-RAT association for 5G enabled Smart Grid	2020 IEEE International Conference on Computing, Power and Communication Technologies, GUCON 2020	2020	-	-
118	Singh J.V., Bedi P.M.S., Singh H., Sharma S.	Xanthine oxidase inhibitors: patent landscape and clinical development (2015–2020)	Expert Opinion on Therapeutic Patents	2020	3	-
119	Suri K., Singh B., Kaur A., Yadav M.P., Singh N.	Influence of microwave roasting on chemical composition, oxidative stability and fatty acid composition of flaxseed ( <i>Linum usitatissimum</i> L.) oil	Food Chemistry	2020	6	-
120	Samiksha, Sohal S.K.	In vitro screening of peptidase inhibitory activity in some plants of North India	Heliyon	2020		-
121	Kumar M., Mahajan R., Saini H.S.	Evaluating metabolic potential of <i>Thauera</i> sp. M9 for the transformation of 4-chloroaniline (4-CA)	Biocatalysis and Agricultural Biotechnology	2020	3	-
122	Saini V., Kaur T., Kalotra S., Kaur G.	The neuroplasticity marker PSA-NCAM: Insights into new therapeutic avenues for promoting neuroregeneration	Pharmacological Research	2020	1	-
123	Samiksha, Singh D., Kesavan A.K., Sohal S.K.	Deterioration of digestive physiology of <i>Bactrocera cucurbitae</i> larvae by trypsin inhibitor purified from seeds of <i>Mucuna pruriens</i>	Pesticide Biochemistry and Physiology	2020		-
124	Kaur P., Kaur A., Singh S., Thakur S., Singh L.	Comprehensive analysis of crystal structure, optical and luminescent behavior of Fe doped MgO nanophosphors	Optik	2020		-
125	Singh L., Kaur A., Garg S., Singh A.P., Bhatti R.	Protective Effect of Esculetin, Natural Coumarin in Mice Model of Fibromyalgia: Targeting Pro-Inflammatory Cytokines and MAO-A	Neurochemical Research	2020	1	-



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126	Dhillon B., Sodhi N.S., Gandotra S., Kaur S., Jaiswal S.	Physico-chemical and textural (sensorial and electromyographic) evaluation of idlis formulated with brown rice and pearl millet flours	Journal of Food Measurement and Characterization	2020	1	-
127	Gulati N., Kaur P.D.	A game theoretic approach for conflict resolution in argumentation enabled social IoT networks	Ad Hoc Networks	2020	1	-
128	Grover A., Sheetal A.	A 2 × 40 Gbps Mode Division Multiplexing Based Inter-satellite Optical Wireless Communication (IsOWC) System	Wireless Personal Communications	2020	-	-
129	Trehan S., Singh N., Kaur A.	Diversity and relationship among grain, flour and starch characteristics of Indian Himalayan colored corn accessions	Journal of Food Science and Technology	2020	-	-
130	Ablyaz T.R., Shlykov E.S., Muratov K.R., Mahajan A., Singh G., Devgan S., Sidhu S.S.	Surface characterization and tribological performance analysis of electric discharge machined duplex stainless steel	Micromachines	2020	5	-
131	Arora K., Singh G., Karthikeyan S., Kang T.S.	One-pot sustainable preparation of sunlight active ZnS@graphene nano-composites using a Zn containing surface active ionic liquid	Nanoscale Advances	2020	1	-
132	Kaur P., Singh K.J., Thakur S., Kurudirek M.	Investigation of a competent non-toxic Bi <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O-CeO <sub>2</sub> -MoO <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glass system for nuclear radiation security applications	Journal of Non-Crystalline Solids	2020	8	-
133	Kumar A., Kumar S., Chae P.S.	A novel anthrapyridone diamine-based probe for selective and distinctive Cu <sup>2+</sup> and Hg <sup>2+</sup> sensing in aqueous solution; utility as molecular logic gates	Dyes and Pigments	2020	9	-
134	Kaur M., Singh K., Jain S.K.	Luliconazole vesicular based gel formulations for its enhanced topical delivery	Journal of Liposome Research	2020	7	-
135	Kaur K., Kaur M.	Determinants of Diffusion and Adoption of ATM cum Debit Cards in Indian Banking Sector	Global Business Review	2020	1	-
136	Kaur P., Kumar R., Davessar S., Khanna A.	Structural and optical characterization of Er-doped CaMoO <sub>4</sub> down-converting phosphors	Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials	2020	2	-
137	Sharma R., Sharma S., Kumar P., Thangaraj R., Asokan K., Mian M.	Influence of phase transformation on structure-property relationship in quaternary In <sub>10</sub> Sb <sub>10</sub> Ag <sub>10</sub> Se <sub>70</sub> chalcogenide films	Journal of Materials Science: Materials in Electronics	2020	-	-
138	Punia S., Sandhu K.S., Kaur M.	Quantification of phenolic acids and antioxidant potential of wheat rusks as influenced by partial replacement with barley flour	Journal of Food Science and Technology	2020	2	-



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139	Singh H., Singh R., kaur S., Arora R., Mannan R., Buttar H.S., Arora S., Singh B.	Protective role of Phyllanthus fraternus in alloxan-induced diabetes in rats	Journal of Ayurveda and Integrative Medicine	2020	2	-
140	Bhongale S.R., Ingavale H.R., Shinde T.J., Pubby K., Bindra Narang S., Vasambekar P.N.	X-Band Microwave Absorption in Nd <sup>3+</sup> -Substituted Mg-Cd Spinel Ferrites Synthesized under Microwave Sintering	IEEE Transactions on Magnetics	2020	1	-
141	Jomaa M.Y., Altaf M., Ahmad S., Bhatia G., Singh J., Altuwaijri S., Isab A.A.	Correction to: Synthesis, characterization and theoretical calculations of (1,2-diaminocyclohexane)(1,3-diaminopropane) gold(III) chloride complexes: in vitro cytotoxic evaluations against human cancer cell lines (BioMetals, (2015), 28, (827–844), 10.1007/s10534-015-9869-1)	BioMetals	2020		-
142	Balasarawathi M., Singh M., Malhotra J., Dhasarathan V.	A high-speed radio-over-free-space optics link using wavelength division multiplexing-mode division multiplexing-multibeam technique	Computers and Electrical Engineering	2020	2	-
143	Singh S., Parmar K.S., Makkhan S.J.S., Kaur J., Peshoria S., Kumar J.	Study of ARIMA and least square support vector machine (LS-SVM) models for the prediction of SARS-CoV-2 confirmed cases in the most affected countries	Chaos, Solitons and Fractals	2020	12	-
144	Singhal A., Shukla R., Kankar P.K., Dubey S., Singh S., Pachori R.B.	Comparing the capabilities of transfer learning models to detect skin lesion in humans	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2020	2	-
145	Kumar V., Sharma A., Pandita S., Bhardwaj R., Thukral A.K., Cerda A.	A review of ecological risk assessment and associated health risks with heavy metals in sediment from India	International Journal of Sediment Research	2020	6	-
146	Das A., Singh D., Kaur A., Saini C.P., Kanjilal D., Balasubramanian C., Ghosh J., Ahuja R.	Temperature-Dependent Cationic Doping-Driven Phonon Dynamics Investigation in CdO Thin Films Using Raman Spectroscopy	Journal of Physical Chemistry C	2020	-	-
147	Sumathi K., Balasarawathi M., Boopathi C.S., Singh M., Malhotra J., Dhasarathan V.	Design of 3.84 Tbps hybrid WDM–PDM based inter-satellite optical wireless communication (IsOWC) system using spectral efficient orthogonal modulation scheme	Journal of Ambient Intelligence and Humanized Computing	2020	2	-
148	Arora K., Karthikeyan S., Shiekh B.A., Kaur M., Singh H., Bhadu G.R., Kang T.S.	In situ preparation of a nanocomposite comprising graphene and $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanospindles for the photo-degradation of antibiotics under visible light	New Journal of Chemistry	2020	1	-



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149	Singh S., Deb J., Sarkar U., Sharma S.	MoSe <sub>2</sub> Crystalline Nanosheets for Room-Temperature Ammonia Sensing	ACS Applied Nano Materials	2020	4	-
150	Kaur K., Singh N., Dhawan R.K.	Potential role of EphrinA2 receptors in postconditioning induced cardioprotection in rats	European Journal of Pharmacology	2020	-	-
151	Chawla A., Singh A., Babu P.D., Singh M.	Analysis of phase segregation using rietveld refinement in and magnetic properties of Mn doped BCT solid solutions	Physica B: Condensed Matter	2020	2	-
152	Raheja Y., Kaur B., Falco M., Tsang A., Chadha B.S.	Secretome analysis of Talaromyces emersonii reveals distinct CAZymes profile and enhanced cellulase production through response surface methodology	Industrial Crops and Products	2020	2	-
153	Sharma V., Kaur M., Sandhu K.S., Godara S.K.	Effect of cross-linking on physico-chemical, thermal, pasting, in vitro digestibility and film forming properties of Faba bean (Vicia faba L.) starch	International Journal of Biological Macromolecules	2020	1	-
154	Dhull S.B., Sandhu K.S., Punia S., Kaur M., Chawla P., Malik A.	Functional, thermal and rheological behavior of fenugreek (Trigonella foenum-graecum L.) gums from different cultivars: A comparative study	International Journal of Biological Macromolecules	2020	4	-
155	Siddiqi R.A., Singh T.P., Rani M., Sogi D.S., Bhat M.A.	Diversity in Grain, Flour, Amino Acid Composition, Protein Profiling, and Proportion of Total Flour Proteins of Different Wheat Cultivars of North India	Frontiers in Nutrition	2020	2	-
156	Bains V., Kaur H., Badaruddoza B.	Association analysis of polymorphisms in LEP (rs7799039 and rs2167270) and LEPR (rs1137101) gene towards the development of type 2 diabetes in North Indian Punjabi population	Gene	2020	1	-
157	Singh J., Singh R.C.	Structural, optical, dielectric and transport properties of ball mill synthesized ZnO-V <sub>2</sub> O <sub>5</sub> nano-composites	Journal of Molecular Structure	2020	3	-
158	Kaur P., Khanna A., Singh M.N., Sinha A.K.	Structural and optical characterization of Eu and Dy doped CaWO <sub>4</sub> nanoparticles for white light emission	Journal of Alloys and Compounds	2020	6	-
159	Deol H., Singh G., Kumar M., Bhalla V.	Phenazine-Based Donor Acceptor Systems as Organic Photocatalysts for "metal-free" C-N/C-C Cross-Coupling	Journal of Organic Chemistry	2020	-	-
160	Kaur S., Kaur M.	Behavioral intentions of heritage tourists: Influential variables on recommendations to visit	Journal of Heritage Tourism	2020	1	-
161	Kaur S., Pandit K., Chandel M., Kaur S.	Antiproliferative and apoptogenic effects of Cassia fistula L. n-hexane fraction against human cervical cancer (HeLa) cells	Environmental Science and Pollution Research	2020	2	-
162	Singh A., Singh G., Kaur P.	Comparison of CERES-Wheat and infocrop model to predict the phenology and yield of wheat	Indian Journal of Ecology	2020	-	-



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163	Sharma H., Singh D., Mahant A., Sohal S.K., Kesavan A.K., Samiksha	Development of mitochondrial replacement therapy: A review	Heliyon	2020	-	-
164	Singh D., Kaur L., Anand N., Singh G., Dhawan R.K., Kaur N.	Role of nanoemulsion for safe and cost-effective delivery of amphotericin b	International Journal of Applied Pharmaceutics	2020	-	-
165	Singh S., Singh J., Kandoria A., Quadar J., Bhat S.A., Chowdhary A.B., Vig A.P.	Bioconversion of different organic waste into fortified vermicompost with the help of earthworm: A comprehensive review	International Journal of Recycling of Organic Waste in Agriculture	2020	-	-
166	Mahajan A., Sidhu S.S., Devgan S.	Examination of hemocompatibility and corrosion resistance of electrical discharge-treated duplex stainless steel (DSS-2205) for biomedical applications	Applied Physics A: Materials Science and Processing	2020	3	-
167	Singh J., Narang T.D.	Convex linear metric spaces are normable	Journal of Analysis	2020		-
168	Arora N., Singh B.	Determinants of oversubscription of SME IPOs in India: evidence from quantile regression	Asia-Pacific Journal of Business Administration	2020	1	-
169	Kaur R., Singh D., Kesavan A.K., Kaur R.	Molecular characterization and antimicrobial susceptibility of bacterial isolates present in tap water of public toilets	International Health	2020	2	-
170	Kaur S., Sonali S.	India fights COVID-19	Psychological Trauma: Theory, Research, Practice, and Policy	2020	2	-
171	Gulati H.K., Bhagat K., Singh A., Kumar N., Kaur A., Sharma A., Heer S., Singh H., Singh J.V., Bedi P.M.S.	Design, synthesis and biological evaluation of novel indolinedione-coumarin hybrids as xanthine oxidase inhibitors	Medicinal Chemistry Research	2020	2	-
172	Grover L.K., Kaur A.	An Improved Regression Type Estimator of Population Mean with Two Auxiliary Variables in Stratified Double Sampling	Journal of Statistical Theory and Practice	2020		-
173	Kaur R., Khanna A.	Photoluminescence and thermal properties of trivalent ion-doped lanthanum tellurite anti-glass and glass composite samples	Journal of Luminescence	2020	1	-
174	Singh H., Sharma A.K., Gupta M., Singh A.P., Kaur G.	Tinospora cordifolia attenuates high fat diet-induced obesity and associated hepatic and renal dysfunctions in rats	PharmaNutrition	2020	4	-
175	Singh P., Kumar K., Kaur N., Kaur S., Kaur S.	Perylene diimide dye threaded with dual-react able sites for detection of H <sub>2</sub> S and Hg <sup>2+</sup> : Diagnostic kit and cell imaging	Dyes and Pigments	2020	6	-
176	Saini M., Verma R., Singh A., Chahal K.K.	Investigating diversity and impact of the popularity metrics for ranking software packages	Journal of Software: Evolution and Process	2020	2	-



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177	Grover L.K., Kaur A.	Corrected estimator of sensitive population proportion using unknown repeated trials in the unrelated question randomized response model	Biometrical Journal	2020	-	-
178	Dhillon P., Singh K., Kaur K.	The benefits of probiotic interventions in maternal-fetal health: An appraise review	PharmaNutrition	2020	-	-
179	Singh A., Mukhtar H.M., Kaur H., Kaur L.	Investigation of antiplasmodial efficacy of lupeol and ursolic acid isolated from Ficus benjamina leaves extract	Natural Product Research	2020	1	-
180	Dutt S., Singh S., Mahajan A., Arora B., Sahoo B.K.	Van der Waals coefficients of the multi-layered MoS <sub>2</sub> with alkali metals	Physica Scripta	2020	-	-
181	Kaur A., Pati P.K., Pati A.M., Nagpal A.K.	Physico-chemical characterization and topological analysis of pathogenesis-related proteins from Arabidopsis thaliana and Oryza sativa using in-silico approaches	PLoS ONE	2020	-	-
182	Pathak N., Agarwal P.C., Gill T.S., Kaur S.	Characteristics of spatiotemporal dynamics of a quadruple Gaussian laser beam in a relativistic ponderomotive magnetized plasma	Journal of the Optical Society of America B: Optical Physics	2020	1	-
183	Jain R.K., Kaur J., Khanna A., Chawla A.K.	Growth and characterization of hydrophobic anti-reflection CaF <sub>2</sub> films	Journal of Materials Science: Materials in Electronics	2020	-	-
184	Prasher P., Sharma M.	N-acetylgalactosaminyltransferase: A potential target for colorectal adenocarcinoma	Future Medicinal Chemistry	2020	1	-
185	Singh D., Mahajan S., Singh G., Razdan K.	Applications of molecular dynamic simulations in lipid-based drug delivery system	Assay and Drug Development Technologies	2020	-	-
186	Sharma S., Singh R., Kaur R.	In Silico Characterization of a Unique Plant-Like "Loopful" GH19 Chitinase from Newly Isolated Chitinophaga sp. YS-16	Current Microbiology	2020	1	-
187	Dhull S.B., Kaur M., Sandhu K.S.	Antioxidant characterization and in vitro DNA damage protection potential of some Indian fenugreek (Trigonella foenum-graecum) cultivars: effect of solvents	Journal of Food Science and Technology	2020	2	-
188	Poonia N., Lather V., Narang J.K., Beg S., Pandita D.	Resveratrol-loaded folate targeted lipoprotein-mimetic nanoparticles with improved cytotoxicity, antioxidant activity and pharmacokinetic profile	Materials Science and Engineering C	2020	2	-
189	Kinger M., Sharma J., Kumar M., Bala R., Kumar V., Prakash V.	Synthetic Emergence in N-Arylimidazoles: A Review	Indian Journal of Heterocyclic Chemistry	2020	-	-
190	Monga S., Kaur H., Jain S.R.	Analysis of pairing phase transition in S <sub>n</sub> -isotopes within semiclassical approach	International Journal of Modern Physics E	2020	1	-



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191	Sharma N., Khanna K., Manhas R.K., Bhardwaj R., Ohri P., Alkahtani J., Alwahibi M.S., Ahmad P.	Insights into the role of streptomyces hydrogenans as the plant growth promoter, photosynthetic pigment enhancer and biocontrol agent against meloidogyne incognita in solanum lycopersicum seedlings	Plants	2020	1	-
192	Singh G., Sandhu H.S., Srinivas Y., Matharoo K., Bhanwer A.J.S.	Genetic portrait of North-West Indian population based on X chromosome Alu insertion markers	International Journal of Legal Medicine	2020	1	-
193	Singh H., Singh J., Singh S.K., Singh N., Paul S., Sohal H.S., Gupta U., Jain S.K.	Vitamin E TPGS based palatable, oxidatively and physically stable emulsion of microalgae DHA oil for infants, children and food fortification	Journal of Dispersion Science and Technology	2020	3	-
194	Rahim M.S., Mishra A., Katyal M., Thakur S., Sharma M., Kumar P., Parveen A., Jaiswal V., Singh N., Kumar V., Gupta R.K., Sharma H., Roy J.	Marker-trait association identified candidate starch biosynthesis pathway genes for starch and amylose-lipid complex gelatinization in wheat (Triticum aestivum L.)	Euphytica	2020	1	-
195	Gupta V., Mehta P., Kumar A., Chaudhary M., Diyundi S.C., Sehajpal P.K., Thangaraj K., Rajender S.	c.29C>T polymorphism in the TGF-β1 gene correlates with increased risk of End Stage Renal Disease: original study and meta-analysis	Meta Gene	2020		-
196	Kumar A., Kaur V., Pandit K., Tuli H.S., Sak K., Jain S.K., Kaur S.	Antioxidant Phytoconstituents From Onosma bracteata Wall. (Boraginaceae) Ameliorate the CCl4 Induced Hepatic Damage: In Vivo Study in Male Wistar Rats	Frontiers in Pharmacology	2020		-
197	Dhaliwal S.S., Taneja P.K., Singh J., Bhatti S.S., Singh R.	Cadmium Accumulation Potential of Brassica Species Grown in Metal Spiked Loamy Sand Soil	Soil and Sediment Contamination	2020	4	-
198	Sharma P., Kumar M., Bhalla V.	“Metal-free” fluorescent supramolecular assemblies for distinct detection of organophosphate/organochlorine pesticides	ACS Omega	2020	2	-
199	Gilhotra V., Yadav R., Bhatti M.S.	Diminution of fluoride from groundwater using electrocoagulation: Process optimization and role of arsenic interference	Desalination and Water Treatment	2020		-
200	Panchal N., Kaur M., Tharmatt A., Thakur S., Jain S.K.	Development, Characterization and Evaluation of Parenteral Formulation of Diclofenac Sodium	AAPS PharmSciTech	2020	-	-
201	Punia A., Singh Chauhan N., Kaur S., Kaur Sohal S.	Effect of ellagic acid on the larvae of Spodoptera litura (Lepidoptera:Noctuidae) and its parasitoid Bracon hebetor (Hymenoptera: Braconidae)	Journal of Asia-Pacific Entomology	2020	1	-
202	Kaur J., Singh H.	Fabrication and analysis of piezoelectricity in 0D, 1D and 2D Zinc Oxide nanostructures	Ceramics International	2020	3	-



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203	Sharma M., Manhas R.K.	Purification and characterization of salvianolic acid B from <i>Streptomyces</i> sp. M4 possessing antifungal activity against fungal phytopathogens	Microbiological Research	2020	4	-
204	Priyanka, Singh M.L., Gill H.S., Singh M., Kaur S.	An Experimental Evaluation of Link Outage Due to Beam Wander in a Turbulent FSO Link	Wireless Personal Communications	2020	1	-
205	Dhillon B., Choudhary G., Sodhi N.S.	A study on physicochemical, antioxidant and microbial properties of germinated wheat flour and its utilization in breads	Journal of Food Science and Technology	2020	2	-
206	Kaur P.D., Sharma P.	IC-SMART: IoTCloud enabled Seamless Monitoring for Alzheimer Diagnosis and Rehabilitation SysTem	Journal of Ambient Intelligence and Humanized Computing	2020	1	-
207	Bhalla A., Kang L.S.	The Role of Personality in Influencing Work–Family Balance Experience: A Study of Indian Journalists	Global Business Review	2020		-
208	Dave V., Singh S., Vakharia V.	Diagnosis of bearing faults using multi fusion signal processing techniques and mutual information	Indian Journal of Engineering and Materials Sciences	2020		-
209	Shukla N., Arora B., Sharma L., Srivastava R.	Two-dipole and three-dipole dispersion coefficients for interaction of alkaline-earth-metal atoms with alkaline-earth-metal atoms and alkaline-earth-metal ions	Physical Review A	2020	1	-
210	Sahil, Sood S.K.	Erratum: A scientometric review of global research on smart disaster management (IEEE Transactions on Engineering Management DOI: 10.1109/TEM.2020.2972288)	IEEE Transactions on Engineering Management	2020	-	-
211	Thakur S., Singh H., Singh A., Kaur S., Sharma A., Singh S.K., kaur S., Kaur G., Jain S.K.	Thermosensitive injectable hydrogel containing carboplatin loaded nanoparticles: A dual approach for sustained and localized delivery with improved safety and therapeutic efficacy	Journal of Drug Delivery Science and Technology	2020	4	-
212	Brar K.K., Espirito Santo M.C., Pellegrini V.O.A., deAzevedo E.R., Guimaraes F.E.C., Polikarpov I., Chadha B.S.	Enhanced hydrolysis of hydrothermally and autohydrolytically treated sugarcane bagasse and understanding the structural changes leading to improved saccharification	Biomass and Bioenergy	2020	2	-
213	Verma S., Mahadevan S., Pahwa C., Singh A.P., Narang S.B., Aggarwal N., Sharma P.	Improved Magnetic and Microwave Properties of La-Substituted Barium Hexaferrite Screen-Printed Thick Films	Journal of Superconductivity and Novel Magnetism	2020		-
214	Bansal S., Aggarwal M., Gill T.S.	Nonplanar ion acoustic waves in dusty plasma with two temperature electrons: Application to Saturn's e ring	Physics of Plasmas	2020	2	-
215	Pramanik A., Das S., Khanna G.L.	Differential effects of performance-enhancing drugs 'Methamphetamine' and 'hCG' on ex-vivo cultured primary blood mononuclear cells of male athletes	Pharmacological Reports	2020		-



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216	Bhatia A., Arora S., Nagpal A., Singh B.	Screening of rhizomes of Rheum emodi Wall. Ex. Meissen for antimutagenic potential employing Ames assay	Nucleus (India)	2020		-
217	Tandon L., Thakur P., Singh K., Khullar P., Ahluwalia G.K., Bakshi M.S.	Photophysical behavior of heme group: Unfolding of hemoglobin and myoglobin in the presence of Gemini surfactants of different molecular architectures	International Journal of Biological Macromolecules	2020	4	-
218	Dilbaghi N., Ahuja M., Bernela M., Kumar S., Bhardwaj P., Kaur H.	Synthesis and characterization of novel amphiphilic tamarind seed xyloglucan-octenyl succinic anhydride conjugate	Journal of Polymer Research	2020	1	-
219	Walia S., Mukhia S., Bhatt V., Kumar R., Kumar R.	Variability in chemical composition and antimicrobial activity of Tagetes minuta L. essential oil collected from different locations of Himalaya	Industrial Crops and Products	2020	8	-
220	Kumar A., Kumar A., Dogra R., Manhas M., Sharma S., Singh N., Kumar R.	Effect of europium concentration on gamma ray exposed thermoluminescence behaviour of LiF: Sm <sup>3+</sup> , Dy <sup>3+</sup> , Eu <sup>3+</sup> nanophosphor	Optik	2020	1	-
221	Chander H., Singh K.P.	Frontline publishers of punjabi language books: A bibliometric study	DESIDOC Journal of Library and Information Technology	2020		-
222	Singh P., Sharma P., Kaur N., Mittal L.S., Kumar K.	Perylene diimides: Will they flourish as reaction-based probes?	Analytical Methods	2020	4	-
223	Kumar J., Ahmad A., Rizvi M.A., Ganie M.A., Khajuria C., Shah B.A.	Photoredox-Mediated Synthesis of Functionalized Sulfoxides from Terminal Alkynes	Organic Letters	2020	2	-
224	Bhalla A., Modi G., Yadav P., Kumar P., Bari S.S., Hundal G.	Stereoselective C-3 alkylation of trans-3-phenylsulfonyl- $\beta$ -lactams with organic halides to access C-3 substituted $\beta$ -lactams using sulfonyl moiety as an activating group	Tetrahedron Letters	2020		-
225	Kaur R., Khanna A., González-Barrusio M., González F.	Structural, thermal and optical characterization of co-existing glass and anti-glass phases of xLa <sub>2</sub> O <sub>3</sub> -(100-x)TeO <sub>2</sub> and 2TiO <sub>2</sub> -xLa <sub>2</sub> O <sub>3</sub> -(98-x)TeO <sub>2</sub> systems	Journal of Non-Crystalline Solids	2020	2	-
226	Kaur H., Aggarwal N., Sood A.K., Banipal T.S.	Analysis of micellar, thermodynamic and structural parameters of gemini surfactants in aqueous solutions of vitamins	Journal of Molecular Liquids	2020	1	-
227	Dhiman S., Kumar G., Luxami V., Singh P., Kumar S.	A stilbazolium dye-based chromogenic and red-fluorescent probe for recognition of 2,4,6-trinitrophenol in water	New Journal of Chemistry	2020	1	-



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228	Sharma B., Gu L., Pillay R.P., Cele N., Awolade P., Singh P., Kaur M., Kumar V.	Design, synthesis, and anti-proliferative evaluation of 1: H - 1,2,3-triazole grafted tetrahydro- $\beta$ -carboline-chalcone/ferrocenylchalcone conjugates in estrogen responsive and triple negative breast cancer cells	New Journal of Chemistry	2020	3	-
229	Kaur J., Kaur B.P., Chimni S.S.	Recent advances in the catalytic synthesis of 3-aminooxindoles: An update	Organic and Biomolecular Chemistry	2020	4	-
230	Sran B.S., Sharma S., Pointillart F., Cador O., Hundal G.	Field-Induced Single Molecular Magnetism and Photoluminescence in Rare Cocrystals of Isomorphic Lanthanide(III) Coordination Compounds with Fully Substituted Pyridine-4-carboxamide Ligand	Inorganic Chemistry	2020	4	-
231	Kaur H., Kahlon K.S.	Measuring the complexity of migration transition: an attempt using metrics	Journal of Experimental and Theoretical Artificial Intelligence	2020	-	-
232	Kaur V., Kumar M., Kumar A., Kaur S.	Butea monosperma (Lam.) Taub. Bark fractions protect against free radicals and induce apoptosis in MCF-7 breast cancer cells via cell-cycle arrest and ROS-mediated pathway	Drug and Chemical Toxicology	2020	3	-
233	Rani S., Marwaha A., Marwaha S., Bindra S., Chavali M., Reddy P.N.	Characterization and measurement of nanostructured copper-based electromagnetic wave absorber	Electromagnetics	2020	-	-
234	Singh A., Singh G., Bedi P.M.S.	Thiophene derivatives: A potent multitargeted pharmacological scaffold	Journal of Heterocyclic Chemistry	2020	5	-
235	Mahey S., Kumar R., Sharma M., Kumar V., Bhardwaj R.	A critical review on toxicity of cobalt and its bioremediation strategies	SN Applied Sciences	2020	4	-
236	Hans R., Kaur H.	Feature Selection Using Metaheuristic Algorithms: Concept, Applications and Population Based Comparison	2020 International Conference on Computational Performance Evaluation, ComPE 2020	2020	-	-
237	Jayachandran J.	The Media Coverage of Drugs and Alcohol in Punjab during COVID-19 Pandemic	Asian Politics and Policy	2020	-	-
238	Kaur J., Singh H., Singh A.	Fabrication and investigation of zinc oxide nanoflowers-based piezoelectric nanogenerator	IET Circuits, Devices and Systems	2020	2	-
239	Chauhan N.S., Punia A., Sohal S.K.	Insecticidal effects of phenolic compounds on the development of polyphagous spodoptera litura larvae	Allelopathy Journal	2020	-	-
240	Vohra R., Sawhney R.S., Kaur J., Kumar R.	Adenine based molecular junction as biosensor for detection of toxic phosgene gas	Journal of Molecular Modeling	2020	-	-



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241	Dhiman P., Arora S.	A conceptual framework for identifying key employee branding dimensions: A study of hospitality industry	Journal of Innovation and Knowledge	2020	1	-
242	Kumari A., Kaur R.	A review on morpho-physiological traits of plants under phthalates stress and insights into their uptake and translocation	Plant Growth Regulation	2020	2	-
243	Agrawal D., Kaur B., Kaur Brar K., Chadha B.S.	An innovative approach of priming lignocellulosics with lytic polysaccharide mono-oxygenases prior to saccharification with glycosyl hydrolases can economize second generation ethanol process	Bioresource Technology	2020	2	-
244	Singh J., Bahel S.	(BaxMg <sub>1-x</sub> ) (Ti <sub>0.95</sub> Sn <sub>0.05</sub> )O <sub>3</sub> (x = 0.025, 0.05, 0.075 and 0.1) solid solutions as effective Ku-band (12.4–18 GHz) shielders	Ceramics International	2020	2	-
245	Kaur H., Sood S.K.	Soft-computing-centric framework for wildfire monitoring, prediction and forecasting	Soft Computing	2020		-
246	Priya B., Malhotra J.	5GAuNetS: an autonomous 5G network selection framework for Industry 4.0	Soft Computing	2020	2	-
247	Singh H., Singh S., Singh A.	Punjabi adaptation of WHO's global physical activity questionnaire (GPAQ) in gurmukhi script: A validity and reliability study	Medico-Legal Update	2020	1	-
248	Singh H., Singh A.	Factors influencing web accessibility of corporate information: Indian evidence	International Journal of e-Business Research	2020	-	-
249	Datta R., Kaur A., Saraf I., Kaur M., Singh I.P., Chadha P., Kaur S.	Assessment of genotoxic and biochemical effects of purified compounds of <i>Alpinia galanga</i> on a polyphagous lepidopteran pest <i>Spodoptera litura</i> (Fabricius)	Phytoparasitica	2020		-
250	Sharma M., Sharma S.	The Rising Number of COVID-19 Cases Reflecting Growing Search Trend and Concern of People: A Google Trend Analysis of Eight Major Countries	Journal of Medical Systems	2020	2	-
251	Kaur A., Sudhakara Reddy M., Pati P.K., Kumar A.	Over-expression of Osmotin (OsmWS) gene of <i>Withania somnifera</i> in potato cultivar 'Kufri Chipsona 1' imparts resistance to <i>Alternaria solani</i>	Plant Cell, Tissue and Organ Culture	2020	2	-
252	Chawla A., Verma S., Godara S., Bhadu G.R., Singh A., Singh M.	Understanding Phase Segregation Using Rietveld Analysis and the Dielectric, Ferroelectric Properties of Ba(1-x)CaxTiO <sub>3</sub> Solid Solutions	Journal of Electronic Materials	2020	3	-
253	Prasher P., Baghra D., Singh D., Thakur S., Gill N.K., Kesavan A.K.	Molecular identification and phylogenetic relationship of Demodex mites based on mitochondrial 16S rDNA	Tropical Parasitology	2020	1	-



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254	Thakur A., Nehra K., Arora S., Kaushal R.	Synthesis, characterization, DNA-interactions, antioxidant, antimicrobial and anticancer studies of mixed-ligand titanocene dichloride complexes	International Journal of Pharmaceutical Research	2020	-	-
255	Bansal S., Aggarwal M., Gill T.S.	Planar and Nonplanar Electron-Acoustic Solitary Waves in the Presence of Positrons	Plasma Physics Reports	2020	-	-
256	Kabra A., Salekar K., Kalanekar T., Salekar K.	Effect of jack knife stretching versus proprioceptive neuromuscular facilitation (Hold relax) stretching technique in asymptomatic individuals with hamstring tightness: A randomized clinical trial	Indian Journal of Forensic Medicine and Toxicology	2020	-	-
257	Nazir S., Simnani S., Mishra R., Sharma T., Masood S.	Simultaneous measurements of radon, thoron and their progeny for inhalation dose assessment in indoors of Srinagar, J&K, India	Journal of Radioanalytical and Nuclear Chemistry	2020	4	-
258	Punia S., Sandhu K.S., Dhull S.B., Siroha A.K., Purewal S.S., Kaur M., Kidwai M.K.	Oat starch: Physico-chemical, morphological, rheological characteristics and its applications - A review	International Journal of Biological Macromolecules	2020	9	-
259	Grover A., Sheetal A., Dhasarathan V.	Performance analysis of mode division multiplexing based free space optics system incorporating on-off keying and polarization shift keying under dynamic environmental conditions	Wireless Networks	2020	5	-
260	Carol T T.T., Mohammed J., Bhargava R., Khan S., Mishra S., Godara S.K., Srivastava A.K.	Crystal structure refinement, optical properties, dielectric response, and impedance spectroscopy of Ni <sup>2+</sup> -Co <sup>2+</sup> substituted bismuth copper titanate (BCTO)	Materials Chemistry and Physics	2020	1	-
261	Sivakumar P., Singh M., Malhotra J., Dhasarathan V.	Performance analysis of 160 Gbit/s single-channel PDM-QPSK based inter-satellite optical wireless communication (IsOWC) system	Wireless Networks	2020	1	-
262	Gautam V., Sharma A., Arora S., Bhardwaj R., Ahmad A., Ahamad B., Ahmad P.	In-vitro antioxidant, antimutagenic and cancer cell growth inhibition activities of Rhododendron arboreum leaves and flowers	Saudi Journal of Biological Sciences	2020	-	-
263	Kaur A., Garg S., Shiekh B.A., Singh N., Singh P., Bhatti R.	In Silico Studies and in Vivo MAO Inhibitory Activity of Coumarins Isolated from Angelica archangelica Extract: An Approach toward Antidepressant Activity	ACS Omega	2020	2	-
264	Kumar A., Mukhia S., Kumar N., Acharya V., Kumar S., Kumar R.	A Broad Temperature Active Lipase Purified From a Psychrotrophic Bacterium of Sikkim Himalaya With Potential Application in Detergent Formulation	Frontiers in Bioengineering and Biotechnology	2020	4	-



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265	Kaur S., Arora S.	Role of perceived risk in online banking and its impact on behavioral intention: trust as a moderator	Journal of Asia Business Studies	2020	6	-
266	Thakker H.T., Dave V., Vakharia V., Singh S.	Fault Diagnosis of Ball Bearing Using Hilbert Huang Transform and LASSO Feature Ranking Technique	IOP Conference Series: Materials Science and Engineering	2020	1	-
267	Arora N., Singh B.	The long-run performance of SME IPOs in India: empirical evidence from Indian stock market	Journal of Asia Business Studies	2020		-
268	Sharma B., Gujral H.S.	Modifying the dough mixing behavior, protein & starch digestibility and antinutritional profile of minor millets by sprouting	International Journal of Biological Macromolecules	2020	5	-
269	Kaur P., Kriti, Rahul, Kaur S., Kandasami A., Singh D.P.	Synchrotron-based VUV excitation-induced ultrahigh quality cool white light luminescence from Sm-doped ZnO	Optics Letters	2020	2	-
270	Bhatia I.S., Randhawa D.K.K.	Something more than graphene-Futuristic two-dimensional nanomaterials	Current Science	2020	2	-
271	Singh R., Bahel S., Narang S.B.	Structural, dielectric, reflection and optical characteristics of the rare-earth (Yb, Er, Dy and Eu) substituted M-phase $Li_{1+x}Nb_{1-x}Ti_x+4yO_3$ solid solutions	Journal of Alloys and Compounds	2020		-
272	Chawla A., Singh A., Babu P.D., Singh M.	Magnetic ion oxidation state dependent magnetoelectric coupling strength in Fe doped BCT ceramics	RSC Advances	2020	1	-
273	Bhatia A., Makkar B.	Stage of development of a country and CSR disclosure – the latent driving forces	International Journal of Law and Management	2020	1	-
274	Kaur R.P.	Impact of Industry on the Forest Resources	Journal of Physics: Conference Series	2020	-	-
275	Thakur S., Kaur P.	Comparative Analysis of Neutron, Proton, Alpha and Beta Radiation Shielding Parameters of PES and PVDC	Journal of Physics: Conference Series	2020	-	-
276	Kaur P., Singh K.J., Thakur S.	Gamma-ray, Neutron and Beta Radiation Shielding Properties of $Bi_2O_3-Li_2O-MnO_2-B_2O_3$ Glasses	Journal of Physics: Conference Series	2020	-	-
277	Singh P., Singh N.	Step-up multiple comparison procedure for comparing several normal variances	Communications in Statistics: Simulation and Computation	2020	-	-
278	Godara S.K., Kaur S., Kaur V., Sood A.K., Singh M., Pushkarna I., Bhadu G.R., Chaudhari J.C.	Effect of co-substitution of $Zn^{2+}/Zr^{4+}$ on Surface Morphology, Structure and Magnetic Properties of $BaZn_xZr_xFe_{12-2x}O_{19}$	Journal of Physics: Conference Series	2020	-	-
279	Kaur P., Khanna A., Kaur N., Nayar P., Chen B.	Synthesis and structural characterization of alumina nanoparticles	Phase Transitions	2020	2	-



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280	Getso R.S., Mohammed J., Tchouank Tekou Carol T., Mukhtar G., Halilu N., Sharma S., Srivastava A.K., Prasad N., Ahmad M., Basandrai D.	Structural and Dielectric Properties of Cr <sup>3+</sup> -Cu <sup>2+</sup> Substituted Cobalt Ferrites	Journal of Physics: Conference Series	2020	1	-
281	Bhatia A., Mahendru M.	Is Institutional Environment the Only Force Behind Corporate Social Responsibility Disclosure? An Insight into Indian Companies	Indian Journal of Corporate Governance	2020		-
282	Kaur A., Singh B., Kaur A., Singh N.	Changes in chemical properties and oxidative stability of refined vegetable oils during short-term deep-frying cycles	Journal of Food Processing and Preservation	2020	3	-
283	Singh B., Singh J.P., Kaur A., Singh N.	Phenolic composition, antioxidant potential and health benefits of citrus peel	Food Research International	2020	31	-
284	Singh B., Singh J., Singh J.P., Kaur A., Singh N.	Phenolic compounds in potato ( <i>Solanum tuberosum</i> L.) peel and their health-promoting activities	International Journal of Food Science and Technology	2020	4	-
285	Singh K.D., Sood S.K.	5G ready optical fog-assisted cyber-physical system for IoT applications	IET Cyber-Physical Systems: Theory and Applications	2020	8	-
286	Sharma V., Kumar R., Arora N., Singh S., Sharma N., Anand A., Jain S.K., Sharma S.	Effect of heat treatment on thermal and mechanical stability of NaOH-doped xanthan gum-based hydrogels	Journal of Solid State Electrochemistry	2020	1	-
287	Kaur M., Malhotra J., Kaur P.D.	A VANET-IoT based Accident Detection and Management System for the Emergency Rescue Services in a Smart City	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)	2020	2	-
288	Bala K., Kaur P.D.	Impact of Post Cloud Computing Paradigms on IoT	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)	2020	1	-
289	Arora N., Kaur P.D.	Augmenting Banking and FinTech with Intelligent Internet of Things Technology	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)	2020		-
290	Dogra M., Kaur J.	Capital Adequacy Compliance: Adoption of Basel I, II and III	SCMS Journal of Indian Management	2020		-
291	Rana S.B., Kaur H.	Design and fabrication of hexagonal antenna for wireless applications	International Journal of Information Technology (Singapore)	2020	1	-



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292	Chhabra A., Singh G., Kahlon K.S.	QoS-aware energy-efficient task scheduling on HPC cloud infrastructures using swarm-intelligence meta-heuristics	Computers, Materials and Continua	2020	1	-
293	Kaur H., Sood S.K.	Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting	IEEE Systems Journal	2020	1	-
294	Kaur I., Sharma M., Kaur S., Kaur A.	Ultra-sensitive electrochemical sensors based on self-assembled chelating dithiol on gold electrode for trace level detection of copper(II) ions	Sensors and Actuators, B: Chemical	2020	5	-
295	Kaur H., Gill B.S.	Comparative evaluation of physicochemical, nutritional and molecular interactions of flours from different cereals as affected by germination duration	Journal of Food Measurement and Characterization	2020	5	-
296	Kaur R., Banipal P.K., Banipal T.S.	Binding ability of sodium valproate with cationic surfactants and effect on micellization: calorimetric, surface tension, light scattering and spectroscopic approach	Journal of Thermal Analysis and Calorimetry	2020		-
297	Kaur N., Sood S.K., Verma P.	Cloud resource management using 3Vs of Internet of Big data streams	Computing	2020	1	-
298	Qidwai A., Annu, Nabi B., Kotta S., Narang J.K., Baboota S., Ali J.	Role of nanocarriers in photodynamic therapy	Photodiagnosis and Photodynamic Therapy	2020	3	-
299	Dogra P., Sharma R.R., Kaushal A.	Impact of online financial advertisements on Indian consumer's attitude: Moderating effect of perceived product innovativeness	Finance India	2020		-
300	Sharma S., Kumar S., Khajuria A., Ohri P., Kaur R., Kaur R.	Biocontrol potential of chitinases produced by newly isolated Chitinophaga sp. S167	World Journal of Microbiology and Biotechnology	2020	4	-
301	Sohal M.K., Mahajan A., Gasso S., Nahirmiak S.V., Dontsova T.A., Singh R.C.	Rare earth-tuned oxygen vacancies in gadolinium-doped tin oxide for selective detection of volatile organic compounds	Journal of Materials Science: Materials in Electronics	2020	1	-
302	Sharma S., Sharma M., Singh G.	A chaotic and stressed environment for 2019-nCoV suspected, infected and other people in India: Fear of mass destruction and causality	Asian Journal of Psychiatry	2020	13	-
303	Singh D., Singh A.P., Singh D., Kesavan A.K., Arora S., Tiwary A.K., Bedi N.	Enhanced oral bioavailability and anti-diabetic activity of canagliflozin through a spray dried lipid based oral delivery: a novel paradigm	DARU, Journal of Pharmaceutical Sciences	2020	1	-
304	Kaur H., Sood S.K., Bhatia M.	Cloud-assisted green IoT-enabled comprehensive framework for wildfire monitoring	Cluster Computing	2020	3	-



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305	Singh A., Baghel U.S., Sinha M., Ashawat M.S.	Quantitative analysis of rosuvastatin calcium in bulk and solid pharmaceutical dosage forms using green and rapid fourier-transform infrared spectroscopic method	Indian Journal of Pharmaceutical Sciences	2020		-
306	Prakash V., Kumari A., Kaur H., Kumar M., Gupta S., Bala R.	Chemical constituents and biological activities of genus picrorhiza: An update	Indian Journal of Pharmaceutical Sciences	2020	-	-
307	Grover A., Sheetal A., Dhasarathan V.	Enhanced performance analysis of a hybrid spectrum sliced-wavelength division multiplexing-mode division multiplexing-orthogonal frequency division multiplexing based radio-over-free space optics	Transactions on Emerging Telecommunications Technologies	2020	2	-
308	Sharma E., Gulati A., Gulati A.	Statistical optimization of culture conditions of mesophilic gamma-glutamyl transpeptidase from Bacillus altitudinis IHB B1644	3 Biotech	2020		-
309	Saxena N., Agrawal H., Barick K.C., Ray D., Aswal V.K., Singh A., Yadav U.C.S., Dube C.L.	Thermal and microwave synthesized SPIONs: Energy effects on the efficiency of nano drug carriers	Materials Science and Engineering C	2020	2	-
310	Agrawal D., Basotra N., Balan V., Tsang A., Chadha B.S.	Discovery and Expression of Thermostable LPMOs from Thermophilic Fungi for Producing Efficient Lignocellulolytic Enzyme Cocktails	Applied Biochemistry and Biotechnology	2020	5	-
311	Kumar R., Prasad C., Namtak S., Kirti V., Azam R., Sharma A.	Aquatic plant diversity and physicochemical characteristics of headwater stream Bal Ganga, Garhwal Himalaya	Environment, Development and Sustainability	2020	-	-
312	Singh S., Parmar K.S., Kumar J., Makkhan S.J.S.	Development of new hybrid model of discrete wavelet decomposition and autoregressive integrated moving average (ARIMA) models in application to one month forecast the casualties cases of COVID-19	Chaos, Solitons and Fractals	2020	24	-
313	Sharma A., Kumar V., Shahzad B., Ramakrishnan M., Singh Sidhu G.P., Bali A.S., Handa N., Kapoor D., Yadav P., Khanna K., Bakshi P., Rehman A., Kohli S.K., Khan E.A., Parihar R.D., Yuan H., Thukral A.K., Bhardwaj R., Zheng B.	Photosynthetic Response of Plants Under Different Abiotic Stresses: A Review	Journal of Plant Growth Regulation	2020	49	-
314	Kaur M., Chadha P., Kaur S., Kaur A., Kaur R.	Schizophyllum commune induced oxidative stress and immunosuppressive activity in Spodoptera litura	BMC Microbiology	2020	1	-



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315	Singh J., Kumar S.	A Generalization of Bevelacqua's Irreducibility Criterion	American Mathematical Monthly	2020		-
316	Dhillon I.S., Singh D., Chahal H.S.	Physico-Chemical Properties of Soil as Influenced by Integrated Nutrient Management in Onion ( <i>Allium cepa</i> L.) Crop	Indian Journal of Agricultural Research	2020		-
317	Kaur P., Bindra Narang S., Bahel S.	Complex permittivity, complex permeability and reflection loss of Co-Zr substituted La-Sr hexaferrites in 18–40 GHz frequency range	Journal of Magnetism and Magnetic Materials	2020	4	-
318	Kaur A., Jaiswal N., Raj R., Kumar B., Kapur S., Kumar D., Gahlay G.K., Mithu V.S.	Characterization of Cu <sup>2+</sup> and Zn <sup>2+</sup> binding sites in SUMO1 and its impact on protein stability	International Journal of Biological Macromolecules	2020	1	-
319	Singh S., Sharma A., Khajuria K., Singh J., Vig A.P.	Soil properties changes earthworm diversity indices in different agro-ecosystem	BMC Ecology	2020	4	-
320	Singh G., Kaur M., Singh D., Kesavan A.K., Kang T.S.	Antimicrobial Colloidal Complexes of Lysozyme with Bio-Based Surface Active Ionic Liquids in Aqueous Medium	Journal of Physical Chemistry B	2020	1	-
321	Kaur H., Singh B.P., Singh H., Kumar A., Nagpal A.K.	Gene content in solanaceous chloroplast genomes	Plant Cell Biotechnology and Molecular Biology	2020		-
322	Sharma P., Rashid M., Kaur S.	Novel enterocin E20c purified from <i>Enterococcus hirae</i> 20c synergised with $\beta$ -lactams and ciprofloxacin against <i>Salmonella enterica</i>	Microbial Cell Factories	2020	2	-
323	Bhatti S.S., Kumar V., Kumar A., Kirby J.K., Gouzos J., Correll R., Singh J., Sambyal V., Nagpal A.K.	Potential carcinogenic and non-carcinogenic health hazards of metal(loid)s in food grains	Environmental Science and Pollution Research	2020	-	-
324	Singh K.D., Sood S.K.	Optical fog-assisted cyber-physical system for intelligent surveillance in the education system	Computer Applications in Engineering Education	2020	4	-
325	Sharma S., Singh S., Singh R.C., Sharma S.	Structural transformation and room temperature ammonia sensing properties of TiS <sub>2</sub> nanostructures	SN Applied Sciences	2020	2	-
326	Singh M., Sheetal A., Singh H., Sawhney R.S., Kaur J.	Animal Hair-Based Triboelectric Nanogenerator (TENG): A Substitute for the Positive Polymer Layer in TENG	Journal of Electronic Materials	2020	3	-
327	Kaur S.	Effect of Religiosity and Moral Identity Internalization on Prosocial Behaviour	Journal of Human Values	2020		-
328	Vohra R., Sawhney R.S., Singh K.P.	Contemplating charge transport by modeling of DNA nucleobases based nano structures	Current Applied Physics	2020		-
329	Kaur R., Kaur J., Kaur M., Kalotra V., Chadha P., Kaur A., Kaur A.	An endophytic <i>Penicillium oxalicum</i> isolated from <i>Citrus limon</i> possesses antioxidant and genoprotective potential	Journal of Applied Microbiology	2020	2	-



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330	Kaur I., Shivani, Kaur P., Singh K.	2-(2'-Hydroxyphenyl)benzothiazole derivatives: Emission and color tuning	Dyes and Pigments	2020	4	-
331	Bains V., Kaur H., Badaruddoza	Association study of the single-nucleotide polymorphisms -3971G/A and +276G/T in the adiponectin gene with type 2 diabetes in a North Indian Punjabi population	Annals of Human Genetics	2020		-
332	Kaur A., Sood S.K.	Deep learning based drought assessment and prediction framework	Ecological Informatics	2020	1	-
333	Pubby K., Vijay Babu K., Bindra Narang S.	Magnetic, elastic, dielectric, microwave absorption and optical characterization of cobalt-substituted nickel spinel ferrites	Materials Science and Engineering B: Solid-State Materials for Advanced Technology	2020	15	-
334	Dar O.I., Sharma S., Singh K., Sharma A., Bhardwaj R., Kaur A.	Biochemical markers for prolongation of the acute stress of triclosan in the early life stages of four food fishes	Chemosphere	2020	2	-
335	Astanina M., Sheremet M., Mahabaleshwar U.S., Singh J.	Effect of porous medium and copper heat sink on cooling of heat-generating element	Energies	2020	1	-
336	Pal J., Kumar S., Kaur S., Malhi P.S., Kumar Y., Singh M., Singh A.	Study of the magnetic, electrical and magneto-dielectric properties and dielectric relaxation in 0.8BiFeO <sub>3</sub> -0.2Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> solid solution	Solid State Sciences	2020	3	-
337	Dhasarathan V., Singh M., Malhotra J.	Development of high-speed FSO transmission link for the implementation of 5G and Internet of Things	Wireless Networks	2020	10	-
338	Sharma S., Rabbani S.A., Narang J.K., Hyder Pottoo F., Ali J., Kumar S., Baboota S.	Role of Rutin Nanoemulsion in Ameliorating Oxidative Stress: Pharmacokinetic and Pharmacodynamics Studies	Chemistry and Physics of Lipids	2020	13	-
339	Tchouank Tekou Carol T., Mohammed J., Basandrai D., Godara S.K., Bhadu G.R., Mishra S., Aggarwal N., Narang S.B., Srivastava A.K.	X-band shielding of electromagnetic interference (EMI) by Co <sub>2</sub> Y barium hexaferrite, bismuth copper titanate (BCTO), and polyaniline (PANI) composite	Journal of Magnetism and Magnetic Materials	2020	7	-
340	Malathy S., Singh M., Malhotra J., Vasudevan B., Dhasarathan V.	Modeling and performance investigation of 4 × 20 Gbps underwater optical wireless communication link incorporating space division multiplexing of Hermite Gaussian modes	Optical and Quantum Electronics	2020	1	-
341	Sharma M., Banipal P.K., Banipal T.S.	Hydration characteristics, structural effects and the taste quality of some polyhydroxy compounds in aqueous solutions of nicotinic acid (vitamin B3) at (288.15–318.15) K	Food Chemistry	2020	1	-
342	Shalini, Pankaj, Saha S.T., Kaur M., Oluwakemi E., Awolade P., Singh P., Kumar V.	Synthesis and: In vitro anti-proliferative evaluation of naphthalimide-chalcone/pyrazoline conjugates as potential SERMs with computational validation	RSC Advances	2020	3	-



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343	Sabharwal N., Kaur H., Kaur A.	A Study of dimensions of brand equity of female buying behavior of cosmetic products	International Journal of Advanced Science and Technology	2020	-	-
344	Vashisht A., Gahlay G.K.	Using miRNAs as diagnostic biomarkers for male infertility: Opportunities and challenges	Molecular Human Reproduction	2020	4	-
345	Kaur P., Singh K.J., Kaur S., Kaur S., Singh A.P.	Sol-gel derived strontium-doped SiO <sub>2</sub> -CaO-MgO-P <sub>2</sub> O <sub>5</sub> bioceramics for faster growth of bone like hydroxyapatite and their in vitro study for orthopedic applications	Materials Chemistry and Physics	2020	2	-
346	Kaur N., Khanna A., Fábíán M., Dutt S.	Structural and electrical characterization of semiconducting xCuO-(100-x)TeO <sub>2</sub> glasses	Journal of Non-Crystalline Solids	2020	5	-
347	Mohammed J., Tchouank Tekou Carol T., Mukhtar G., Kumar V., Bhadu G.R., Godara S.K., Maji P.K., Srivastava A.K.	Phase structure evolution, crystal structure refinement, morphology, and electro-optical properties of heat-treated Ca <sub>0.9</sub> Ni <sub>0.1</sub> Cu <sub>2.9</sub> La <sub>0.1</sub> Ti <sub>4</sub> O <sub>12</sub>	Ceramics International	2020	3	-
348	Kaur J., Sawhney R.S., Singh H., Singh M.	Electricity nanogenerator from egg shell membrane: A natural waste bioproduct	International Journal of Green Energy	2020	4	-
349	Bhatia A., Kaur G.	De-escalation in the Progression of Trillion Dollar Economy: An Empirical Assessment of Indian Corporate Sector	Journal of Asia-Pacific Business	2020		-
350	Gupta N., Khanna A., Hirdesh, Dippel A.-C., Gutowski O.	Structure of bismuth tellurite and bismuth niobium tellurite glasses and Bi <sub>2</sub> Te <sub>4</sub> O <sub>11</sub> anti-glass by high energy X-ray diffraction	RSC Advances	2020	5	-
351	Ghosh D., Singh S.K., Khursheed R., Pandey N.K., Kumar B., Kumar R., Kumari Y., Kaur G., Clarisse A., Awasthi A., Gulati M., Jain S.K., Porwal O., Bayrakdar E., Sheet M., Gowthamarajan K., Gupta S., Corrie L., Gunjal P., Gupta R.K., Singh T.G., Sinha S.	Impact of solidification on micromeritic properties and dissolution rate of self-nanoemulsifying delivery system loaded with docosahexaenoic acid	Drug Development and Industrial Pharmacy	2020	7	-
352	Kaur H.K.S.	Type-ii fuzzy membership-based traffic congestion control for urban areas	International Journal of Scientific and Technology Research	2020	-	-
353	Bhinder S., Kaur A., Singh B., Yadav M.P., Singh N.	Proximate composition, amino acid profile, pasting and process characteristics of flour from different Tartary buckwheat varieties	Food Research International	2020	12	-



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354	Kaur A., Sharma S., Saini M.	Code clone detection using machine learning techniques: A systematic literature review	International Journal of Open Source Software and Processes	2020	-	-
355	Kaur K., Gill B.S.	Sensory, physical and nutritional qualities of cookies and pinnis prepared from brown rice and wheat flour	Plant Archives	2020		-
356	Sharma P., Kaur S., Kaur S., Singh P.	Near-IR oxime-based solvatochromic perylene diimide probe as a chemosensor for Pd species and Cu <sup>2+</sup> ions in water and live cells	Photochemical and Photobiological Sciences	2020	3	-
357	Kaur N., Arora D.S., Kalia N., Kaur M.	Antibiofilm, antiproliferative, antioxidant and antimutagenic activities of an endophytic fungus <i>Aspergillus fumigatus</i> from <i>Moringa oleifera</i>	Molecular Biology Reports	2020	3	-
358	Sikri G., Sawhney R.S.	First principle approach to elucidate transport properties through l-glutamic acid-based molecular devices using symmetrical electrodes	Journal of Molecular Modeling	2020		-
359	Singh M., Malhotra J.	A high-speed long-haul wavelength division multiplexing-based inter-satellite optical wireless communication link using spectral-efficient 2-D orthogonal modulation scheme	International Journal of Communication Systems	2020	6	-
360	Ghumman A., Singh N., Kaur A.	Influence of sprouting on phenolic composition and starch characteristics of lentil and horse gram	International Journal of Food Science and Technology	2020		-
361	Sharma R., Kaur R.	Diallyl phthalate-triggered oxidative stress in <i>Spirodela polyrhiza</i> L. Schleiden: physiological effects and role of antioxidant defence system	International Journal of Environmental Science and Technology	2020	2	-
362	Sharma G., Kalra S.	Advanced lightweight multi-factor remote user authentication scheme for cloud-IoT applications	Journal of Ambient Intelligence and Humanized Computing	2020	5	-
363	Goyal S., Singh I.R., Vanita V.	Novel mutation in MKKS/BBS6 linked with arRP and polydactyly in a family of North Indian origin	Clinical and Experimental Ophthalmology	2020	-	-
364	Singh P., Dwivedi Y.K., Kahlon K.S., Pathania A., Sawhney R.S.	Can twitter analytics predict election outcome? An insight from 2017 Punjab assembly elections	Government Information Quarterly	2020	12	-
365	Aggarwal M., Goyal V., Kashyap R., Kumar H., Gill T.S.	Spatiotemporal evolution of Gaussian laser pulse in weakly relativistic magnetized cold quantum plasma	Optik	2020	1	-
366	Kohli S.K., Bhardwaj A., Bhardwaj V., Sharma A., Kalia N., Landi M., Bhardwaj R.	Therapeutic potential of brassinosteroids in biomedical and clinical research	Biomolecules	2020	2	-
367	Singh P., Dwivedi Y.K., Kahlon K.S., Sawhney R.S., Alalwan A.A., Rana N.P.	Smart Monitoring and Controlling of Government Policies Using Social Media and Cloud Computing	Information Systems Frontiers	2020	21	-



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368	Arora I., Kumar P., Sathiaraj T.S., Thangaraj R.	Structure, optical and electrical properties of sol-gel derived $Zn_{1.5+x}Sn_{1.5-x}O_4$ nanostructured films for optoelectronic applications	Thin Solid Films	2020	5	-
369	Sondhi S.P., Er., Sandhu V., Goyal S.	Identification and analysis of the impact of organizational support on the work-life balance of the employees in punjab state power corporation limited	International Journal of Advanced Science and Technology	2020		-
370	Gaurav M., Mr., Sandhu V., Kaur S.	Impact of GST on impulsive buying behavior of consumer on FMCG (fast moving consumer goods)	International Journal of Advanced Science and Technology	2020		-
371	Kaur M., Nakra R., Arora B., Li C.-B., Sahoo B.K.	Accurate determination of energy levels, hyperfine structure constants, lifetimes and dipole polarizabilities of triply ionized tin isotopes	Journal of Physics B: Atomic, Molecular and Optical Physics	2020	1	-
372	Singh P., Sharma P.	Nano cuboids: Impact of 8-hydroxyquinoline on tryptophan properties and its applications	Tetrahedron Letters	2020	1	-
373	Arora N., Singh B.	Corporate governance and underpricing of small and medium enterprises IPOs in India	Corporate Governance (Bingley)	2020	2	-
374	Kuila B., Sharma P., Mahajan D., Singh P., Bhargava G.	Rhodium-catalysed chemo- and regio-selective [3 + 2+2] cycloadditions of bis(methylenecyclopropanes) and alkynes: Synthesis of spirocyclic 5–7 condensed cycloheptenes	Synthetic Communications	2020	-	-
375	Kaur L., Deol H., Kumar M., Bhalla V.	Integrating CuO–Fe <sub>2</sub> O <sub>3</sub> Nanocomposites and Supramolecular Assemblies of Phenazine for Visible-Light Photoredox Catalysis	Chemistry - An Asian Journal	2020	-	-
376	Sarin N., Singh K.J., Kaur H., Kaur R., Singh J.	Preliminary studies of the effect of doping of chromium oxide in SiO <sub>2</sub> -CaO-P <sub>2</sub> O <sub>5</sub> bioceramics for bone regeneration applications	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2020	1	-
377	Minhas A.S., Singh G., Singh J., Kankar P.K., Singh S.	A novel method to classify bearing faults by integrating standard deviation to refined composite multi-scale fuzzy entropy	Measurement: Journal of the International Measurement Confederation	2020	9	-
378	Bhatia A., Singh Buttar H., Arora R., Singh B., Singh A., Kaur S., Arora S.	Antiproliferative Effects of Roylea cinerea (D. Don) Baillon Leaves in Immortalized L6 Rat Skeletal Muscle Cell Line: Role of Reactive Oxygen Species Mediated Pathway	Frontiers in Pharmacology	2020		-
379	Singh J., Bahel S.	Synthesis of single phase MgTiO <sub>3</sub> and influence of Sn <sup>4+</sup> substitution on its structural, dielectric and electrical properties	Journal of Alloys and Compounds	2020	6	-



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380	Kaur A., Sood S.K.	Cloud-Fog based framework for drought prediction and forecasting using artificial neural network and genetic algorithm	Journal of Experimental and Theoretical Artificial Intelligence	2020	6	-
381	Dogra N., Sharma M., Sharma A., Keshavarzi A., Minakshi, Bhardwaj R., Thukral A.K., Kumar V.	Pollution assessment and spatial distribution of roadside agricultural soils: a case study from India	International Journal of Environmental Health Research	2020	16	-
382	Kumari S., Bhinder S., Singh B., Kaur A., Singh N.	Effect of buckwheat incorporation on batter fermentation, rheology, phenolic, amino acid composition and textural properties of idli	LWT	2020	2	-
383	Sharma M., Chadha P., Sharma P.	DNA alterations in blood cells of Channa punctatus after acute exposure to 4-Nonylphenol	Indian Journal of Animal Sciences	2020		-
384	Kaur P., Singh J.	Price formation in Indian gold market: Analysing the role of gold Exchange Traded Funds (ETFs) against spot and futures markets	IIMB Management Review	2020		-
385	Parmar Y., Ghuman M.K., Mann B.J.S.	The Match-up Between Celebrity Associations and Product Type	Journal of Creative Communications	2020	2	-
386	Bhatia I.S., Randhawa D.K.K.	Verilog-A modeling of a silicene-based p-n junction logic device: simulation and applications	Journal of Computational Electronics	2020	3	-
387	Singh M., Malhotra J.	Modeling and Performance Analysis of 400 Gbps CO-OFDM Based Inter-satellite Optical Wireless Communication (IsOWC) System Incorporating Polarization Division Multiplexing with Enhanced Detection	Wireless Personal Communications	2020	6	-
388	Singh M., Malhotra J.	Performance Comparison of Different Modulation Schemes in High-Speed MDM Based Radio Over FSO Transmission Link Under the Effect of Atmospheric Turbulence Using Aperture Averaging	Wireless Personal Communications	2020	8	-
389	Mann B.J.S., Kaur H.	Sustainable Supply Chain Activities and Financial Performance: An Indian Experience	Vision	2020	2	-
390	Sharma A., Kalotra S., Bajaj P., Singh H., Kaur G.	Butanol Extract of Tinospora cordifolia Ameliorates Cognitive Deficits Associated with Glutamate-Induced Excitotoxicity: A Mechanistic Study Using Hippocampal Neurons	NeuroMolecular Medicine	2020	6	-



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391	Kaur P., Bahel S., Narang S.B.	Electromagnetic Wave Absorption Properties of La-Doped Strontium M-Type Hexagonal Ferrite in a 18–40 GHz Frequency Range	Journal of Electronic Materials	2020	3	-
392	Kaur A., Sood S.K.	Ten years of disaster management and use of ICT: a scientometric analysis	Earth Science Informatics	2020	5	-
393	Banipal P.K., Sohal P., Arti S., Banipal T.S.	Elucidation of Interactions between l-Ascorbic Acid and Mixed Micellar Aggregates of Catanionic {Sodium Dodecylsulfate + Cetyltrimethylammonium Bromide} Surfactants via Physicochemical and Spectroscopic Studies	Journal of Surfactants and Detergents	2020	3	-
394	Hans R., Kaur H.	Hybrid binary Sine Cosine Algorithm and Ant Lion Optimization (SCALO) approaches for feature selection problem	International Journal of Computational Materials Science and Engineering	2020	2	-
395	Chilakala R.R., Manchikalapudi A.L., Kumar A., Sunkaria A.	Sulforaphane Attenuates A $\beta$ Oligomers Mediated Decrease in Phagocytic Activity of Microglial Cells	Neuroscience	2020	2	-
396	Kaur P., Singh K.J., Yadav A.K., Kaur S., Kaur R., Kaur S.	Growth of bone like hydroxyapatite and cell viability studies on CeO <sub>2</sub> doped CaO–P <sub>2</sub> O <sub>5</sub> –MgO–SiO <sub>2</sub> bioceramics	Materials Chemistry and Physics	2020	7	-
397	Thapar S.S., Sarangal H.	Quantifying reusability of software components using hybrid fuzzy analytical hierarchy process (FAHP)-Metrics approach	Applied Soft Computing Journal	2020	4	-
398	Kumar A., Chae P.S., Kumar S.	A dual-responsive anthrapyridone-triazole-based probe for selective detection of Ni <sup>2+</sup> and Cu <sup>2+</sup> : A mimetic system for molecular logic gates based on color change	Dyes and Pigments	2020	8	-
399	Sharma M., Kumar V., Bhardwaj R., Thukral A.K.	Tartaric Acid Mediated Cr Hyperaccumulation and Biochemical alterations in seedlings of <i>Hordeum vulgare</i> L.	Journal of Plant Growth Regulation	2020	3	-
400	Singh T., Singh J., Sharma S.	Re-joining of authorized nodes in MANETs using EGSR scheme and detection of internal attacks using 2ACK scheme	International Journal of Information Technology (Singapore)	2020		-
401	Singh M., Malhotra J., Mani Rajan M.S., Dhasarathan V., Aly M.H.	Performance evaluation of 6.4 Tbps dual polarization quadrature phase shift keying Nyquist-WDM superchannel FSO transmission link: Impact of different weather conditions	Alexandria Engineering Journal	2020	11	-
402	Grover A., Sheetal A., Dhasarathan V.	20Gbit/s-40 GHz OFDM based LEO-GEO Radio over Intersatellite optical wireless communication (Ro-IsOWC) system using 4-QAM modulation	Optik	2020	2	-
403	Chandra P., Sharma R.K., Arora D.S.	Antioxidant compounds from microbial sources: A review	Food Research International	2020	17	-



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404	Singh H., Kaur J., Arora R., Mannan R., Buttar H.S., Arora S., Singh B.	Ameliorative potential of <i>Argyrea speciosa</i> against CCI-induced neuropathic pain in rats: Biochemical and histopathological studies	Journal of Ethnopharmacology	2020	2	-
405	Singh P., Sharma R.K.	Development of informative genic SSR markers for genetic diversity analysis of <i>Picrorhiza kurroa</i>	Journal of Plant Biochemistry and Biotechnology	2020	1	-
406	Tarun T., Randhawa D.K.K., Singh P., Choudhary B.C., Walia G.K., Kaur N.	Analysis of uric acid adsorption on armchair silicene nanoribbons: a DFT study	Journal of Molecular Modeling	2020		-
407	Rani S., Marwaha A., Marwaha S., Bindra S., Chavali M., Reddy P.N.	Synthesis and Validation of a Cu Meta-Based Wideband Microwave Absorber on an Antenna Array	Journal of Electronic Materials	2020		-
408	Kaur H., Paruthi M., Islam J., Hollebeek L.D.	The role of brand community identification and reward on consumer brand engagement and brand loyalty in virtual brand communities	Telematics and Informatics	2020	30	-
409	Kaur H., Marwaha A., Singh C., Narang S.B., Jotania R., Bai Y., Mishra S.R., Singh D., Sombra A.S.B., Ghimire M., Dhruv P.	Tailoring of Electromagnetic Absorption in Substituted Hexaferrites from 8.2 GHz to 12.4 GHz	Journal of Electronic Materials	2020	4	-
410	Prasher P., Sharma M., Mudila H., Gupta G., Sharma A.K., Kumar D., Bakshi H.A., Negi P., Kapoor D.N., Chellappan D.K., Tambuwala M.M., Dua K.	Emerging trends in clinical implications of bio-conjugated silver nanoparticles in drug delivery	Colloids and Interface Science Communications	2020	14	-
411	Singh L., Fontinha D., Francisco D., Mendes A.M., Prudêncio M., Singh K.	Molecular Design and Synthesis of Ivermectin Hybrids Targeting Hepatic and Erythrocytic Stages of Plasmodium Parasites	Journal of Medicinal Chemistry	2020	2	-
412	Singh N., Singh P.	A closed testing procedure for comparison between successive variances	Journal of Applied Statistics	2020		-
413	Kapoor D., Bhardwaj R.	Cadmium stress responses in <i>Brassica juncea</i> L. Plants through histochemical and qualitative approaches	Plant Cell Biotechnology and Molecular Biology	2020	2	-
414	Kaur R.P., Sharma A., Sharma A.K.	Impact of environment toxin on phytoplankton-zooplankton dynamics	International Journal of Control and Automation	2020	1	-
415	Sharma S., Sharma R., Kumar P., Thangaraj R., Asokan K., Mian M.	Effect of gamma irradiation on structure and photoconductivity of amorphous Sb <sub>30</sub> Se <sub>70</sub> chalcogenide films	Journal of Non-Crystalline Solids	2020	1	-



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416	Dhiman S., Ahmad M., Singla N., Kumar G., Singh P., Luxami V., Kaur N., Kumar S.	Chemodosimeters for optical detection of fluoride anion	Coordination Chemistry Reviews	2020	16	-
417	Kaur A., Singh B.	Disentangling the reputation – performance paradox: Indian evidence	Journal of Indian Business Research	2020	1	-
418	Sharma P., Singh P.	A perylene diimide-based near-IR ratiometric sensor for detection of Cu <sup>2+</sup> ions: Ensemble for discrimination of CN <sup>-</sup> and S <sup>2-</sup> ions	Analytical Methods	2020	7	-
419	Shalini, Legac J., Adeniyi A.A., Kisten P., Rosenthal P.J., Singh P., Kumar V.	Functionalized Naphthalimide-4-aminoquinoline Conjugates as Promising Antiplasmodials, with Mechanistic Insights	ACS Medicinal Chemistry Letters	2020	4	-
420	Kaur N., Kaur S.	Dynamic triangular localization based security aware protocol for wireless sensor networks	International Journal of Scientific and Technology Research	2020		-
421	Kaur R., Kaur S.	Non dominated sorting genetic algorithm based energy aware clustering protocol	International Journal of Scientific and Technology Research	2020		-
422	Mudhar J.K., Kalra S., Malhotra J.	An Efficient Blockchain Based Authentication Scheme to Secure Fog Enabled IoT Devices	Indo - Taiwan 2nd International Conference on Computing, Analytics and Networks, Indo-Taiwan ICAN 2020 - Proceedings	2020		-
423	Singh A., Kaur N.	Macroeconomic determinants of gold prices: A bounds testing approach	Indian Journal of Finance	2020		-
424	Kaur N., Kaur R., Saini N.S.	Ion-acoustic cnoidal waves with the density effect of spin-up and spin-down degenerate electrons in a dense astrophysical plasma	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	2020	4	-
425	Kumar Grover L., Kaur A.	Correction: 'A new randomized response model'	Journal of the Royal Statistical Society. Series B: Statistical Methodology	2020	1	-
426	Singh G., Kaur J., Kaur M., Singh P., Bhatti R.	Anti-nociceptive and anti-inflammatory effect of imperatorin: evidences for involvement of COX-2, iNOS, NFκB and inflammatory cytokines	International Journal of Neuroscience	2020	6	-
427	Singh J., Kaur P., Bajaj R.	Bicritical states in a vertical layer of fluid under two-frequency temperature modulation	Physical Review E	2020	1	-
428	Singh G., Kaur M., Kang T.S., Aswal V.K.	Aqueous colloidal systems of bovine serum albumin and functionalized surface active ionic liquids for material transport	RSC Advances	2020	2	-



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429	Kaur A., Sood S.K.	Cloud-Centric IoT-Based Green Framework for Smart Drought Prediction	IEEE Internet of Things Journal	2020	4	-
430	Arora M., Singh J., Bajaj R.	Nonlinear Stability of Natural Convection in an Inclined Fluid Layer	International Journal of Applied and Computational Mathematics	2020	3	-
431	Kumar K., Kaur S., Kaur S., Bhargava G., Kumar S., Singh P.	A multifunctional perylenediimide-based dual-analyte chemodosimeter for specific and rapid detection of H <sub>2</sub> S and Pd <sup>0</sup> in water, biofluids, live cells and solid state	Journal of Photochemistry and Photobiology A: Chemistry	2020	5	-
432	Verma P., Sood S.K., Kaur H.	A Fog-Cloud based cyber physical system for Ulcerative Colitis diagnosis and stage classification and management	Microprocessors and Microsystems	2020	3	-
433	Sharma P., Kumar K., Kaur S., Kaur S., Bhargava G., Kumar S., Singh P.	Near-IR discriminative detection of H <sub>2</sub> S and Cysteine with 7-nitro-2,1,3-benzoxadiazole-perylenediimide conjugate in water, live cells and solid state: Mimicking IMP, INH and NOR/OR complimentary logic	Journal of Photochemistry and Photobiology A: Chemistry	2020	8	-
434	Sharma A., Nagpal A.K.	Contamination of vegetables with heavy metals across the globe: hampering food security goal	Journal of Food Science and Technology	2020	4	-
435	Singh R.C., Singh P.	Comparing several normal variances with a control using sample quasi range	Communications in Statistics: Simulation and Computation	2020		-
436	Sharma M., Prasher P.	An epigrammatic status of the 'Azole'-based antimalarial drugs	RSC Medicinal Chemistry	2020	5	-
437	Kaur R., Khanna A., Hirdesh, Dippel A.-C., Gutowski O., González F., González-Barriuso M.	Structure of strontium tellurite glass, anti-glass and crystalline phases by high-energy X-ray diffraction, reverse Monte Carlo and Rietveld analysis	Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials	2020	5	-
438	Bala R., Kaur A., Golobič A., Prakash V.	Synthesis and characterization of s-fac-[Co(dien) <sub>2</sub> ](4-np) <sub>3</sub> (4-npH) <sub>2</sub> H <sub>2</sub> O containing symmetric, [4-np...H...4-np] <sup>-</sup> and unsymmetric, [4-np-H...4-np] <sup>-</sup> dimers of 4-nitrophenolate (4-np <sup>-</sup> )	Polyhedron	2020		-
439	Rani A., Singh G.I., Kaur R., Palma G., Perumal S., Kaur M., Ebenezer O., Awolade P., Singh P., Kumar V.	Azide-alkyne cycloaddition en route to ferrocenyl-methoxy-methyl-isatin-conjugates: Synthesis, anti-breast cancer activities and molecular docking studies	Journal of Organometallic Chemistry	2020	2	-
440	Pandey A., Singh Saini B., Singh B., Sood N.	Quality controlled ECG data compression based on 2D discrete cosine coefficient filtering and iterative JPEG2000 encoding	Measurement: Journal of the International Measurement Confederation	2020	7	-



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441	Kumar A., Vanita V., Walia A., Chae P.S., Kumar S.	Pyridoanthrone-based chromo-fluorogenic amphiphiles for selective CN <sup>-</sup> detection and their bioimaging application	Sensors and Actuators, B: Chemical	2020	6	-
442	Samra K.S., Singh R., Singh L.	Swift Heavy Ion Irradiated Low-Density Polyethylene: Structural and Optical Investigations	Journal of Macromolecular Science, Part B: Physics	2020		-
443	Saxena N., Dholia N., Akkireddy S., Singh A., Yadav U.C.S., Dube C.L.	Efficient microwave synthesis, functionalisation and biocompatibility studies of SPION based potential nano-drug carriers	Applied Nanoscience (Switzerland)	2020	3	-
444	Singh H., Kalsi S.S., Sidhu T.S.	Analysis of cold spray-coated boiler-tube material in a chlorine-based corrosive environment at 900°C	Materials and Corrosion	2020		-
445	Gautam V., Sharma P., Bakshi P., Arora S., Bhardwaj R., Paray B.A., Alyemeni M.N., Ahmad P.	Effect of rhododendron arboreum leaf extract on the antioxidant defense system against chromium (Vi) stress in vigna radiata plants	Plants	2020	4	-
446	Kaur N., Mahajan A., Bhullar V., Singh D.P., Saxena V., Debnath A.K., Aswal D.K., Devi D., Singh F., Chopra S.	Ag ion implanted TiO <sub>2</sub> photoanodes for fabrication of highly efficient and economical plasmonic dye sensitized solar cells	Chemical Physics Letters	2020	7	-
447	Sanduja M., Gupta J., Singh H., Pagare P.P., Rana A.	Uracil-coumarin based hybrid molecules as potent anti-cancer and anti-bacterial agents	Journal of Saudi Chemical Society	2020	7	-
448	Purewal S.S., Salar R.K., Bhatti M.S., Sandhu K.S., Singh S.K., Kaur P.	Solid-state fermentation of pearl millet with Aspergillus oryzae and Rhizopus azygosporus: effects on bioactive profile and DNA damage protection activity	Journal of Food Measurement and Characterization	2020	6	-
449	Kaur S., Kumar A., Thakur S., Kumar K., Sharma R., Sharma A., Singh P., Sharma U., Kumar S., Landi M., Brestič M., Kaur S.	Antioxidant, antiproliferative and apoptosis-inducing efficacy of fractions from cassia fistula l. Leaves	Antioxidants	2020	6	-
450	Sharma A., Soares C., Sousa B., Martins M., Kumar V., Shahzad B., Sidhu G.P.S., Bali A.S., Asgher M., Bhardwaj R., Thukral A.K., Fidalgo F., Zheng B.	Nitric oxide-mediated regulation of oxidative stress in plants under metal stress: a review on molecular and biochemical aspects	Physiologia Plantarum	2020	31	-
451	Pahwa C., Narang S.B., Sharma P.	Composition dependent magnetic and microwave properties of exchange-coupled hard/soft nanocomposite ferrite	Journal of Alloys and Compounds	2020	11	-
452	Kalia N., Singh J., Kaur M.	Microbiota in vaginal health and pathogenesis of recurrent vulvovaginal infections: A critical review	Annals of Clinical Microbiology and Antimicrobials	2020	10	-



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453	Gurtu A., Akhtar N., Verma M., Singh K., Moyle-Heyrman G., Bakshi M.S.	Functionalized Iron Oxide-Metal Hybrid Nanoparticles for Protein Extraction from Complex Fluids	Industrial and Engineering Chemistry Research	2020	1	-
454	Kumar V., Syan A.S., Kaur A., Hundal B.S.	Determinants of farmers' decision to adopt solar powered pumps	International Journal of Energy Sector Management	2020	3	-
455	Kumari P., Kaur S., Kaur J., Bhatti R., Singh P.	Modification of the lead molecule: Tryptophan and piperidine appended triazines reversing inflammation and hyperalgesia in rats	Bioorganic and Medicinal Chemistry	2020	2	-
456	Singh D., Arora R., Bhatia A., Singh H., Singh B., Arora S.	Molecular targets in cancer prevention by 4-(methylthio)butyl isothiocyanate - A comprehensive review	Life Sciences	2020	2	-
457	Sharma B., Kaur S., Legac J., Rosenthal P.J., Kumar V.	Synthesis, anti-plasmodial and cytotoxic evaluation of 1H-1,2,3-triazole/acyl hydrazide integrated tetrahydro- $\beta$ -carboline-4-aminoquinoline conjugates	Bioorganic and Medicinal Chemistry Letters	2020	8	-
458	Siroha A.K., Punia S., Kaur M., Sandhu K.S.	A novel starch from Pongamia pinnata seeds: Comparison of its thermal, morphological and rheological behaviour with starches from other botanical sources	International Journal of Biological Macromolecules	2020	1	-
459	Sandhu K.S., Sharma L., Kaur M., Kaur R.	Physical, structural and thermal properties of composite edible films prepared from pearl millet starch and carrageenan gum: Process optimization using response surface methodology	International Journal of Biological Macromolecules	2020	10	-
460	Das A., Singh D., Saini C.P., Ahuja R., Kaur A., Aliukov S.	Orbital hybridization-induced band offset phenomena in Ni: XCd1- xO thin films	Nanoscale	2020	3	-
461	Sharma R.R., Kaur B.	E-mail viral marketing: modeling the determinants of creation of "viral infection"	Management Decision	2020		-
462	Sarin N., Singh K.J., Kaur R., Singh J.	Manganese and Zinc Doped CaO-SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> Bioceramics for Recovery from Bone Defects	Integrated Ferroelectrics	2020	1	-
463	Hans R., Kaur H., Kaur N.	Opposition-based Harris Hawks optimization algorithm for feature selection in breast mass classification	Journal of Interdisciplinary Mathematics	2020	6	-
464	Kumar V., Sharma A., Kumar R., Bhardwaj R., Kumar Thukral A., Rodrigo-Comino J.	Assessment of heavy-metal pollution in three different Indian water bodies by combination of multivariate analysis and water pollution indices	Human and Ecological Risk Assessment	2020	23	-
465	Randhawa J.S., Sharma R., Chhina G.S., Kaur M.	Effect of integrated nutrient management on productivity and quality of malt barley ( <i>Hordeum distichon</i> L.)	Agricultural Science Digest	2020	-	-



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466	Anand N., Singh D., Singh G., Kaur L., Dhawan R.K., Kaur N.	3D printing technology in pharmaceutical delivery system: Recent advancement in innovative approach [Farmasötik Taşıyıcı Sistemlerde 3B Baskı Teknolojisi: Yenilikçi Yaklaşımda Son Gelişmeler]	Fabad Journal of Pharmaceutical Sciences	2020	-	-
467	Singh Z.	Serum hTERT level as sensitive biomarker with prognostic implications in breast, lung, gastric and liver cancers	Malaysian Journal of Medicine and Health Sciences	2020	-	-
468	Singh J., Singh B.	Inhibition of post-mortem fish muscle softening and degradation using legume seed proteinase inhibitors	Journal of Food Science and Technology	2020	1	-
469	Mahajan A., Singh G., Devgan S., Sidhu S.S.	EDM performance characteristics and electrochemical corrosion analysis of Co-Cr alloy and duplex stainless steel: A comparative study	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2020	-	-
470	Kaur R., Kaur G., Singh A.P., Dhingra G.S.	Five polypore species new to India	Czech Mycology	2020	-	-
471	Singh S., Sharma S.	Ammonia sensing using MoS <sub>2</sub> /WO <sub>3</sub> composite obtained via top-down approach	Materials Today: Proceedings	2020	-	-
472	Shenoy S., Sathe A., Sathe P.K.	Pedobarographic analysis of balance in sporting and non-sporting population	Series on Biomechanics	2020	-	-
473	Kaur R., Randhawa G.	Employee engagement and its predictors: Literature review and a proposed model	International Journal of Business and Globalisation	2020	-	-
474	Kaur S., Singh M.L., Priyanka, Singh M.	Performance comparison of all-optical logic gates using electro-optic effect in MZI-based waveguide switch at 1.46 $\mu\text{m}$	Journal of Optical Communications	2020	-	-
475	Puri S., Singh S., Sohal S.K.	Growth retarding effect of curcumin on <i>Bactrocera cucurbitae</i> (Coquillett) larvae	Archives of Phytopathology and Plant Protection	2020	-	-
476	Kaur R., Kaur R.	Symptoms, risk factors, diagnosis and treatment of urinary tract infections	Postgraduate Medical Journal	2020	-	-
477	Kaur R., Kaur Chahal K., Saini M.	Understanding community participation and engagement in open source software Projects: A systematic mapping study	Journal of King Saud University - Computer and Information Sciences	2020	-	-
478	Kaur R., Kaur R.	Microbial Diversity and their Biofilm Formation Potential in Pipes of Water Distribution System	Asian Journal of Water, Environment and Pollution	2020	-	-
479	Kaur R., Randhawa G.	Supportive supervisor to curtail turnover intentions: do employee engagement and work-life balance play any role?	Evidence-based HRM	2020	-	-
480	Kaur R., Singh B.	The Impact of CEOs' Characteristics on Corporate Leverage: Indian Scenario	Vision	2020	-	-



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481	Arora N., Singh B.	Do Prestigious Underwriters Shape the Performance of SME IPOs in India?	Global Business Review	2020	-	-
482	Sandhu S., Arora S.	Customers' usage behaviour of e-banking services: Interplay of electronic banking and traditional banking	International Journal of Finance and Economics	2020	-	-
483	Kaur M., Chadha P., Kaur S., Kaur A.	Effect of Aspergillus flavus on lipid peroxidation and activity of antioxidant enzymes in midgut tissue of Spodoptera litura larvae	Archives of Phytopathology and Plant Protection	2020	-	-
484	Virdi A.S., Singh N., Bains K.K., Kaur A.	Effect of photoperiod and growth media on yield and antioxidant properties of wheatgrass juice of Indian wheat varieties	Journal of Food Science and Technology	2020	1	-
485	Priya B., Malhotra J.	Error rate performance of potential multicarrier waveforms and coding techniques for 5G	International Journal of Sensors, Wireless Communications and Control	2020	-	-
486	Kaur K., Sharma S., Kahlon K.S.	A middleware for polyglot persistence and data portability of big data PaaS cloud applications	Computers, Materials and Continua	2020	-	-
487	Ahuja M.S.	Using community detection technique in recommender system	Advances in Mathematics: Scientific Journal	2020	-	-
488	Rani M., Manchanda P.	Numerical solution of nonlinear oscillatory differential equations using shifted second kind Chebyshev wavelet method	Italian Journal of Pure and Applied Mathematics	2020	-	-
489	Singh S., Singh R.C., Sharma S.	Room temperature ammonia sensing using MoSe <sub>2</sub> nanostructures	Materials Today: Proceedings	2020	1	-
490	Kaur H., Sohal S.	Political brand endorsers, political brand preference, and political brand equity: A mediated moderated model	Journal of Marketing Communications	2020	-	-
491	Pandit K., Kaur S., Kumar A., Bhardwaj R., Kaur S.	trans-Anethole Abrogates Cell Proliferation and Induces Apoptosis through the Mitochondrial-Mediated Pathway in Human Osteosarcoma Cells	Nutrition and Cancer	2020	-	-
492	Singh S., Dogra N., Sharma S.	A sensitive H <sub>2</sub> S sensor using MoS <sub>2</sub> /WO <sub>3</sub> composite	Materials Today: Proceedings	2020	4	-
493	Singh S., Kumar S., Sharma S.	Room temperature high performance ammonia sensor using MoS <sub>2</sub> /SnO <sub>2</sub> nanocomposite	Materials Today: Proceedings	2020	5	-
494	Oberoi D.P.S., Singh T.P., Sogi D.S.	In Vivo Bioavailability of Lycopene from Watermelon (Citrullus lanatus Thunb) Coloring	Nutrition and Cancer	2020	-	-
495	Grover A., Sheetal A.	2*20 GBIT/S MDM-OFDM-IAOWC link with enhanced detection	Advances in Mathematics: Scientific Journal	2020	-	-
496	Grover A., Sheetal A.	Hybrid mode-wavelength division multiplexing based ofdm-ro-fso link	Advances in Mathematics: Scientific Journal	2020	-	-



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497	Saini N.S., Kaur M., Singh K.	Heavy nucleus acoustic periodic waves in a degenerate relativistic magneto-rotating quantum plasma	Waves in Random and Complex Media	2020	1	-
498	Singh M., Malhotra J.	4×20Gbit/s-40GHzOFDM based radio over FSO transmission link incorporating hybrid wavelength division multiplexing-mode division multiplexing of LG and HG modes with enhanced detection	Optoelectronics and Advanced Materials, Rapid Communications	2020	6	-
499	Kalotra S., Saini V., Singh H., Sharma A., Kaur G.	5-Nonyloxytryptamine oxalate-embedded collagen-laminin scaffolds augment functional recovery after spinal cord injury in mice	Annals of the New York Academy of Sciences	2020	4	-
500	Kaur P., Singh G., Kaur P.	Classification and Validation of MRI Brain Tumor Using Optimised Machine Learning Approach	Lecture Notes in Electrical Engineering	2020	1	-
501	Kumari A., Kaur R.	Di-n-butyl phthalate-induced phytotoxicity in hordeum vulgare seedlings and subsequent antioxidant defense response	Biologia Plantarum	2020	2	-
502	Kaur H., Kaur H., Singh A.	Multi-agent based recommender system for Netflix	Lecture Notes in Networks and Systems	2020	-	-
503	Pathania A., Kaur K., Singh P.	Efficient vm migration policy in cloud computing environment	Lecture Notes in Networks and Systems	2020	-	-
504	Singh M., Malhotra J.	40Gbit/s-80Ghz hybrid MDM-OFDM-multibeam based RoFSO transmission link under the effect of adverse weather conditions with enhanced detection	Optoelectronics and Advanced Materials, Rapid Communications	2020	7	-
505	Grover A., Sheetal A.N.U.	A cost-effective high-capacity OFDM based rofso transmission link incorporating hybrid SS-WDM-MDM of hermite gaussian modes	Optoelectronics and Advanced Materials, Rapid Communications	2020	2	-
506	Mahajan P.	Recent advances in generative adversarial networks: An analysis along with its outlook	Proceedings of the Confluence 2020 - 10th International Conference on Cloud Computing, Data Science and Engineering	2020	-	-
507	Bhatia S., Malhotra J.	CFRF: Cloud forensic readiness framework – A dependable framework for forensic readiness in cloud computing environment	Lecture Notes on Data Engineering and Communications Technologies	2020	-	-
508	Arora N., Singh B.	Do Female Directors Signal Indian SME IPOs Quality? Evidence From a Quantile Regression Approach	Global Business Review	2020	1	-
509	Chouhan H.S.	Cold Spray Coating for Corrosive Conditions	Minerals, Metals and Materials Series	2020	-	-



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510	Kaur R., Singh B.	A Hybrid Image Steganography Using Chaotic Maps in DCT Domain	Advances in Intelligent Systems and Computing	2020		-
511	Kaur H., Sandhu V.	Farmers' awareness level towards solar energy products	International Journal of Psychosocial Rehabilitation	2020	1	-
512	Sandhu V., Kaur H.	Marketing of agricultural produce: An attitudinal analysis of farmers	Journal of Critical Reviews	2020	1	-
513	Dhillon J., Sandhu V.	E-waste management strategy in organizations - A conceptual framework	Journal of Critical Reviews	2020		-
514	Kaur T., Kaur K.	TensorFlow-based semantic techniques for multi-cloud application portability and interoperability	Lecture Notes in Networks and Systems	2020	1	-
515	Kaur M., Kaur K.	Enhanced security mechanism in cloud based on DNA excess 3 codes	Lecture Notes in Networks and Systems	2020	-	-
516	Gotter P., Kaur K.	Enhancing high availability for NoSQL database systems using failover techniques	Lecture Notes in Networks and Systems	2020	-	-
517	Kumar V., Hundal B.S., Syan A.S.	Factors affecting customers' attitude towards solar energy products	International Journal of Business Innovation and Research	2020	1	-
518	Bharti S., Singh H.	Proactively managing clones inside an IDE: a systematic literature review	International Journal of Computers and Applications	2020	1	-
519	Beri A., Kaur G., Singh P., Banipal P.K., Banipal T.S.	Volumetric, acoustic, viscometric, calorimetric and spectroscopic studies to elucidate the effects of citrate and tartrate based food preservatives on the solvation behaviors of acidic amino acids at different temperatures	Food and Function	2020	1	-
520	Sharma R., Kaur R.	Elucidating physiological and biochemical alterations in giant duckweed ( <i>Spirodela polyrhiza</i> L. Schleiden) under diethyl phthalate stress: Insights into antioxidant defence system	PeerJ	2020	1	-
521	Kaur J., Kumar R., Vohra R., Sawhney R.S.	A pursuit to design highly sensitive fullerene-based sensors: adsorption and dissociation phenomenon of toxic sulfur gases on B40 fullerene	Journal of Molecular Modeling	2020	3	-
522	Kaur K., Sharma S., Kahlon K.S.	Towards a model-driven framework for data and application portability in paas clouds	Advances in Intelligent Systems and Computing	2020	1	-
523	Bharti S., Singh H.	Comprehending code fragment in code clones: A literature-based perspective	Lecture Notes in Electrical Engineering	2020		-
524	Arora N., Kaur P.D.	A Bolasso based consistent feature selection enabled random forest classification algorithm: An application to credit risk assessment	Applied Soft Computing Journal	2020	13	-



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525	Kaur J., Sharma P., Kaur R., Kaur S., Kaur A.	Assessment of alpha glucosidase inhibitors produced from endophytic fungus <i>Alternaria destruens</i> as antimicrobial and antibiofilm agents	Molecular Biology Reports	2020	2	-
526	Aggarwal N., Narang S.B.	X-Band Microwave Analysis and Characterization of Zinc Substituted Nickel Ferrites Prepared by Sol–Gel Citrate Route	Journal of Electronic Materials	2020	4	-
527	Singh M., Malhotra J.	Performance Comparison of $2 \times 20$ Gbit/s-40 GHz OFDM Based RoFSO Transmission Link Incorporating MDM of Hermite Gaussian Modes Using Different Modulation Schemes	Wireless Personal Communications	2020	7	-
528	Negi A., Kaur P.	Top-k% concept stratagem for classifying semantic web services	Advances in Intelligent Systems and Computing	2020		-
529	Mittal S., Ashhar M.U., Qizilbash F.F., Qamar Z., Narang J.K., Kumar S., Ali J., Baboota S.	Ligand conjugated targeted nanotherapeutics for treatment of neurological disorders	Current Pharmaceutical Design	2020	1	-
530	Dogra A., Narang R.S., Narang J.K.	Recent advances in nanotherapeutic interventions for the treatment of alzheimer's disease	Current Pharmaceutical Design	2020		-
531	Angurala M., Bala M., Bamber S.S.	Performance Analysis of Modified AODV Routing Protocol with Lifetime Extension of Wireless Sensor Networks	IEEE Access	2020	6	-
532	Singh H., Bala M., Bamber S.S.	Taxonomy of routing protocols in wireless sensor networks: A survey	International Journal on Emerging Technologies	2020	1	-
533	Sharma S., Tiwari S.K., Singh S.	The rotary machine fault detection by hybrid method based on local mean decomposition and fluctuation based dispersion entropy	Materials Today: Proceedings	2020	-	-
534	Bhardwaj R., Soni P.	Examining the dynamics of customer adoption of retail loyalty programmes in India	International Journal of Electronic Customer Relationship Management	2020	-	-
535	Dhiman S., Handa N., Sharma N., Kaur R., Ohri P., Bhardwaj R.	Role of Biochar in Heavy Metal Toxicity in Plants	Nanotechnology in the Life Sciences	2020	-	-
536	Behl R., Arora H.	CMMSE: A novel scheme having seventh-order convergence for nonlinear systems	Journal of Computational and Applied Mathematics	2020	-	-
537	Vohra J., Soni P.	Maternal Mediation of Retail Food Promotions Directed at Children	Journal of International Food and Agribusiness Marketing	2020	-	-
538	Kang L.S., Kaur G.	Contextual Support and Career Aspirations of Working Women	South Asian Journal of Human Resources Management	2021	-	-



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539	Bala R., Sachdeva D., Kumar M., Prakash V.	Advances in coordination chemistry of hexaurea complexes of chromium(III)	Journal of Coordination Chemistry	2020	-	-
540	Singh A., Thakur S., Singh H., Singh H., Kaur S., Kaur S., Dudi R., Mondhe D.M., Jain S.K.	Novel Vitamin E TPGS based docetaxel nanovesicle formulation for its safe and effective parenteral delivery: Toxicological, pharmacokinetic and pharmacodynamic evaluation	Journal of Liposome Research	2020	-	-
541	Sharma M., Chadha P.	From genotoxicity induction to recovery in different organs in fish channa punctatus after sub chronic exposure to 4-nonylphenol	Toxicology International	2020	-	-
542	Khanna A., Kaur A., Fábíán M., Hirdesh, Kaur A.	Structure of lead silicate glasses and its correlation with photoelastic properties	Indian Journal of Physics	2020	-	-
543	Bedi J., Kaur K.	Understanding factors affecting technical debt	International Journal of Information Technology (Singapore)	2020	-	-
544	Kaur J., Kaur V., Pakade Y.B., Katnoria J.K.	A study on water quality monitoring of Buddha Nullah, Ludhiana, Punjab (India)	Environmental Geochemistry and Health	2020	1	-
545	Sobti J., Singh S.K.	Seismic response of bentonite enhanced soils to be used as fabricated liner in engineered landfills	Lecture Notes in Civil Engineering	2020		-
546	Bansal T., Kaur H., Kaur S., Kaur S.	Investigation of anticancer and antitubercular activity of some medicinal plants	Plant Archives	2020		-
547	Ravleen, Kumar Godara S., Kaur B., Kaur V., Kumar Sood A., Singh Malhi P., Ram Bhadu G., Pushkarna I., Singh M.	Characterization of M-type barium hexaferrite synthesized using potatoes as natural fuel	Materials Today: Proceedings	2020	2	-
548	Singh M., Sappal A.S.	Radio over fiber (RoF) link modelling using cross term memory polynomial	Journal of Optical Communications	2020		-
549	Sahil, Sood S.K.	Fog-Cloud centric IoT-based cyber physical framework for panic oriented disaster evacuation in smart cities	Earth Science Informatics	2020	4	-
550	Kumar V., Syan A.S., Kaur K.	A structural equation modeling analysis of factors driving customer purchase intention towards solar water heater	Smart and Sustainable Built Environment	2020	1	-
551	Singh H., Thakur S., Sahajpal N.S., Singh H., Singh A., Sohal H.S., Jain S.K.	Recent advances in the novel formulation of docosahexaenoic acid for effective delivery, associated challenges and its clinical importance	Current Drug Delivery	2020		-
552	Parmar Y., Mann B.J.S., Ghuman M.K.	Impact of celebrity endorser as in-store stimuli on impulse buying	International Review of Retail, Distribution and Consumer Research	2020	2	-



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553	Singh A., Thakur S., Sharma T., Kaur M., Sahajpal N.S., Aurora R., Jain S.K.	Harmonious biomaterials for development of in situ approaches for locoregional delivery of anti-cancer drugs: Current trends	Current Medicinal Chemistry	2020	1	-
554	Majumdar A., Debnath T., Biswas A., Sood S.K., Baishnab K.L.	An Energy Efficient e-Healthcare Framework Supported by Novel EO- $\mu$ GA (Extremal Optimization Tuned Micro-Genetic Algorithm)	Information Systems Frontiers	2020	-	-
555	Singh D., Singh A.P., Singh D., Kesavan A.K., Tiwary A.K., Bedi N.	Polymeric Precipitation Inhibitor-Based Solid Supersaturable SMEDD Formulation of Canagliflozin: Improved Bioavailability and Anti-diabetic Activity	Journal of Pharmaceutical Innovation	2020	-	-
556	Kour A., Sambyal V., Guleria K., Singh N.R., Uppal M.S., Manjari M., Sudan M.	Screening of brca1 variants c.190t>c, 1307delt, g.5331g>a and c.2612c>t in breast cancer patients from north india	Genetics and Molecular Biology	2020	1	-
557	Hans R., Kaur H.	Quasi-opposition-Based Multi-verse Optimization Algorithm for Feature Selection	Lecture Notes in Networks and Systems	2020	-	-
558	Kaur B., Kaur J., Pandey S.K., Joshi S.	E-service Quality: Development and Validation of the Scale	Global Business Review	2020	3	-
559	Mann B.J.S., Parmar Y., Ghuman M.K.	A New Scale to Capture the Multidimensionality of Celebrity Image	Global Business Review	2020	2	-
560	Khanna A., Koley S.	Comparison of anthropometric profile and handgrip strength between inter-university volleyball players and a reference group	Biomedical Human Kinetics	2020	1	-
561	Singh C.J., Kaur S., Jain M.	Unreliable server retrial G-queue with bulk arrival, optional additional service and delayed repair	International Journal of Operational Research	2020	1	-
562	Chopra A., Sachdeva A., Bhardwaj A.	Prevalent general and preventive maintenance practices in Indian process industry	International Journal of Productivity and Quality Management	2020	-	-
563	Kaur J., Sambyal V., Guleria K., Singh N.R., Uppal M.S., Manjari M., Sudan M.	Association of XRCC1, XRCC2 and XRCC3 gene polymorphism with esophageal cancer risk	Clinical and Experimental Gastroenterology	2020	1	-
564	Gupta V., Guleri R., Gupta M., Kaur N., Kaur K., Kumar P., Anand M., Kaur G., Pati P.K.	Anti-neuroinflammatory potential of Tylophora indica (Burm. F) Merrill and development of an efficient in vitro propagation system for its clinical use	PLoS ONE	2020	1	-
565	Singh K., Kaur P., Singla S.K., Kaur G.	Performance evaluation of an all-optical multicasting strategy based on cross-gain modulation (XGM) in a single semiconductor optical amplifier (SOA)	Optoelectronics and Advanced Materials, Rapid Communications	2020	-	-



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566	Singh M., Sappal A.S.	Performance Comparison Between Different Dispersion Compensation Methods in an Optical Link	Advances in Intelligent Systems and Computing	2020	-	-
567	Soni N., Saini I., Singh B.	Integer Wavelet Transform-Based ECG Steganography for Hiding Patients' Confidential Information in e-Healthcare Systems	Advances in Intelligent Systems and Computing	2020	2	-
568	Kumari M., Sharma R., Sheetal A.	A Review on Hybrid WSN-NGPON2 Network for Smart World	Advances in Intelligent Systems and Computing	2020	1	-
569	Sood S.K., Kaur S., Chahal K.K.	An intelligent framework for monitoring dengue fever risk using LDA-ANFIS	Journal of Ambient Intelligence and Smart Environments	2020	3	-
570	Gupta R., Malik S.S.	Single particle spectrum of a nucleon in the harmonic oscillator mean field with spin-orbit coupling-A semiclassical view	Revista Mexicana de Fisica	2020		-
571	Rajput S., Kaur T., Arora S., Kaur R.	Heavy metal concentration and mutagenic assessment of pond water samples: A case study from India	Polish Journal of Environmental Studies	2020	2	-
572	Gautam K., Puri V., Tromp J.G., Nguyen N.G., Van Le C.	Internet of Things (IoT) and Deep Neural Network-Based Intelligent and Conceptual Model for Smart City	Advances in Intelligent Systems and Computing	2020	6	-
573	Pubby K., Sharma P., Narang S.B.	Structural, magnetic, dielectric, microwave absorption, and optical characterization of Ni <sub>0.1</sub> Co <sub>0.9</sub> (MnZr) <sub>x</sub> Fe <sub>2-2x</sub> O <sub>4</sub> /Ba <sub>y</sub> Sr <sub>1-y</sub> Fe <sub>12</sub> O <sub>19</sub> nanocomposites	Journal of Materials Science: Materials in Electronics	2020	2	-
574	Kaur G., Singh J.V., Gupta M.K., Bhagat K., Gulati H.K., Singh A., Bedi P.M.S., Singh H., Sharma S.	Thiazole-5-carboxylic acid derivatives as potent xanthine oxidase inhibitors: design, synthesis, in vitro evaluation, and molecular modeling studies	Medicinal Chemistry Research	2020	5	-
575	Thakur A., Singh P., Biswal S., Kumar N., Jha C., Singh G., Kaur C., Wadhwa S., Kumar R.	Drug delivery through nose: A noninvasive technique for brain targeting	Journal of Reports in Pharmaceutical Sciences	2020	-	-
576	Dhaliwal S.S., Singh J., Taneja P.K., Mandal A.	Remediation techniques for removal of heavy metals from the soil contaminated through different sources: a review	Environmental Science and Pollution Research	2020	23	-
577	Malhotra A., Singh Minhas A., Singh S., Zuo M.J., Kumar R., Kankar P.K.	Bearing fault diagnosis based on flexible analytical wavelet transform and fuzzy entropy approach	Materials Today: Proceedings	2020	-	-
578	Thakur S., Singh A., Sharma R., Aurora R., Jain S.K.	Biosurfactants as a novel additive in pharmaceutical formulations: Current trends and future implications	Current Drug Metabolism	2020	-	-
579	Singh H., Singh S., Singh A., Baker J.S.	Physical activity levels among the adults of Majha region of Punjab, India: A cross-sectional study	American Journal of Human Biology	2020	-	-



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580	Prakash V., Kaur H., Kumari A., Kumar M., Bala R., Gupta S.	Phytochemicals and biological studies on <i>Cycas revoluta</i> Thunb.: a review	Advances in Traditional Medicine	2020	-	-
581	Bhatia M., Sood S., Sood V.	A novel quantum-inspired solution for high-performance energy-efficient data acquisition from IoT networks	Journal of Ambient Intelligence and Humanized Computing	2020	-	-
582	Brar K.K., Chadha B.S., Brar S.K., Singh P.	Biotechnological Strategies for Enhanced Production of Biofuels from Lignocellulosic Biomass	Green Energy and Technology	2020	1	-
583	Chawla A., Singh A., Babu P.D., Singh M.	Impact of transition metal oxidation state on the multiferroic properties and magnetoelectric coupling strength of BST ceramics	Journal of Asian Ceramic Societies	2020	1	-
584	Kamal R., Kumar R., Kumar V., Bhardwaj J.K., Saraf P., Kumar A., Pandit K., Kaur S., Chetti P., Beura S.	Diacetoxy iodobenzene mediated regioselective synthesis and characterization of novel [1,2,4]triazolo[4,3-a]pyrimidines: apoptosis inducer, antiproliferative activities and molecular docking studies	Journal of Biomolecular Structure and Dynamics	2020		-
585	Sharma M., Chadha P., Sharma P.	DNA damage in spleen as a indicator of genotoxicity in <i>Channa punctatus</i> exposed to 4-nonylphenol	Journal of Environmental Biology	2020	2	-
586	Katyal M., Singh N., Viridi A.S., Kaur A., Ahlawat A.K., Singh A.M., Bajaj R.	Comparative analysis of native and defatted flour from hard, extraordinarily soft, and medium-hard wheat varieties for protein solvation, pasting, mixing, and dough rheological behavior	Journal of Food Science	2020	2	-
587	Kuila B., Naikoo R., Mahajan D., Singh P., Bhargava G.	Nickel(0)-Catalyzed [3+2]-Cycloadditions of Bis(alkylidene)cyclopropanes with Diazenes: A Facile Synthesis of Functionalized Pyrazolidine-1,2-dicarboxylates	Synlett	2020	1	-
588	Rai R., Basotra N., Kaur B., Di Falco M., Tsang A., Chadha B.S.	Exoproteome profile reveals thermophilic fungus <i>Crassicarpon thermophilus</i> (strain 6GKB; syn. <i>Corynascus thermophilus</i> ) as a rich source of cellobiose dehydrogenase for enhanced saccharification of bagasse	Biomass and Bioenergy	2020	2	-
589	Aulakh J.K., Lobana T.S., Sood H., Arora D.S., Garcia-Santos I., Kaur M., Jasinski J.P.	Synthesis, structures, and novel antimicrobial activity of silver(I) halide complexes of imidazolidine-2-thiones	Polyhedron	2020	3	-
590	Kohli S.K., Handa N., Bali S., Khanna K., Arora S., Sharma A., Bhardwaj R.	Current scenario of Pb toxicity in plants: Unraveling plethora of physiological responses	Reviews of Environmental Contamination and Toxicology	2020	13	-
591	Kaur M., Kumar A., Mehra R., Kaur I.	Quantitative assessment of exposure of heavy metals in groundwater and soil on human health in Reasi district, Jammu and Kashmir	Environmental Geochemistry and Health	2020	14	-



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592	Kour J., Khanna K., Bakshi P., Sharma I., Ohri P., Mir B.A., Kapoor N., Bhardwaj R.	Role of Beneficial Microbes in the Molecular Phytotoxicity of Heavy Metals	Nanotechnology in the Life Sciences	2020		-
593	Singh H., Singh H., Sahajpal N.S., Paul S., Kaur I., Jain S.K.	Sub-chronic and chronic toxicity evaluation of 7-methylxanthine: a new molecule for the treatment of myopia	Drug and Chemical Toxicology	2020		-
594	Kolupaev Y.E., Karpets Y.V., Yastreb T.O., Shemet S.A., Bhardwaj R.	Antioxidant system and plant cross-adaptation against metal excess and other environmental stressors	Metal Toxicity in Higher Plants	2020		-
595	Goel B., Sharma A., Tripathi N., Bhardwaj N., Sahu B., Kaur G., Singh B., Jain S.K.	In-vitro antitumor activity of compounds from Glycyrrhiza glabra against C6 glioma cancer cells: identification of natural lead for further evaluation	Natural Product Research	2020	1	-
596	Kaur R., Singh J., Kapoor R., Kaur M.	Putative functional non-coding polymorphisms in SELP significantly modulate sP-selectin levels, arterial stiffness and type 2 diabetes mellitus susceptibility	BMC Endocrine Disorders	2020		-
597	Rani A., Kumar S., Legac J., Adeniyi A.A., Awolade P., Singh P., Rosenthal P.J., Kumar V.	Design, synthesis, heme binding and density functional theory studies of isoindoline-dione-4-aminoquinolines as potential antiplasmodials	Future Medicinal Chemistry	2020	5	-
598	Singh P., Randhawa D.K.K., Tarun, Choudhary B.C., Walia G.K., Kaur N.	First principles investigation on armchair zinc oxide nanoribbons as uric acid sensors	Journal of Molecular Modeling	2020		-
599	Singh A.D., Sharma P., Kohli S.K., Kumar P., Singh R., Arora P., Sharma P., Kaur R., Sharma A., Bhardwaj R.	Role of Plant Growth Regulators (PGRs) in Mitigation of Heavy Metal Phytotoxicity in Plants	Nanotechnology in the Life Sciences	2020		-
600	Souri Z., Khanna K., Karimi N., Ahmad P.	Silicon and Plants: Current Knowledge and Future Prospects	Journal of Plant Growth Regulation	2020	6	-
601	Khanna K., Kohli S.K., Sharma A., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ahmad P.	Histochemical and physicochemical studies reveal improved defense in tomato under Cd stress with rhizobacterial supplementation	Plant and Soil	2020		-
602	Sharma A., Kapoor D., Wang J., Shahzad B., Kumar V., Bali A.S., Jasrotia S., Zheng B., Yuan H., Yan D.	Chromium bioaccumulation and its impacts on plants: An overview	Plants	2020	37	-



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603	Khanna K., Kapoor D., Sharma P., Bakshi P., Sharma P., Saini P., Ohri P., Mir B.A., Kaur R., Bhardwaj R.	Plant-microbe interactions under adverse environment	Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives I: General Consequences and Plant Responses	2020	1	-
604	Sharma A., Kumar V., Kumar R., Kohli S.K., Yadav P., Kapoor D., Khan E.A., Parihar R.D., Shahzad B., Thukral A.K., Bhardwaj R.	Role of plant growth regulators in ameliorating heavy metal caused oxidative stress in plants: An update	Metal Toxicity in Higher Plants	2020		-
605	Bali S., Kaur P., Jamwal V.L., Gandhi S.G., Sharma A., Ohri P., Bhardwaj R., Ali M.A., Ahmad P.	Seed priming with jasmonic acid counteracts root knot nematode infection in tomato by modulating the activity and expression of antioxidative enzymes	Biomolecules	2020	4	-
606	Sareen B., Thapa P., Joshi R., Bhattacharya A.	Proteome Analysis of the Gametophytes of a Western Himalayan Fern <i>Diplazium maximum</i> Reveals Their Adaptive Responses to Changes in Their Micro-Environment	Frontiers in Plant Science	2019		-
607	Kaur S., Randhawa D.K.K., Narang S.B.	Strain dependence of the thermoelectric performance of porous armchair silicene nanoribbons	Journal of Materials Research	2019		-
608	Carol T. T.T., Mohammed J., Bhat B.H., Mishra S., Godara S.K., Srivastava A.K.	Effect of Cr–Bi substitution on the structural, optical, electrical and magnetic properties of strontium hexaferrites	Physica B: Condensed Matter	2019	8	-
609	Roopa, Kumar N., Kumar M., Bhalla V.	Design and Applications of Small Molecular Probes for Calcium Detection	Chemistry - An Asian Journal	2019	4	-
610	Beri A., Kaur R., Banipal P.K., Banipal T.S.	Expliciting the {Ciprofloxacin Hydrochloride + (Glycine/ l - Isoleucine)} Interactions in Aqueous Solution over the Temperature range T = 288.15-323.15 K and at Pressure p = 1 × 10 <sup>5</sup> Pa: Volumetric, Acoustic, Calorimetric, and Absorption studies	Journal of Chemical and Engineering Data	2019	1	-
611	Kaur P., Singh K.J., Kurudirek M., Thakur S.	Study of environment friendly bismuth incorporated lithium borate glass system for structural, gamma-ray and fast neutron shielding properties	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2019	40	-
612	Khullar V., Bala M., Singh H.P.	Interactive video-player to improve social smile in individuals with autism spectrum disorder	Advances in Autism	2019		-
613	Singh Z., Singh I.	CTAB Surfactant Assisted and High pH Nano-Formulations of CuO Nanoparticles Pose Greater Cytotoxic and Genotoxic Effects	Scientific Reports	2019	8	-



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614	Singh J., Bahel S.	Electromagnetic interference (EMI) shielding and microwave dielectric properties of $(\text{Ba}_x\text{Mg}_{1-x})(\text{Ti}_{0.95}\text{Sn}_{0.05})\text{O}_3$ $\{x = 0.025 \text{ and } 0.05\}$ solid solutions in Ku-band	2019 IEEE MTT-S International Microwave and RF Conference, IMARC 2019	2019		-
615	Singh K., Saini N.S.	Effect of Anisotropic Pressure on Electron Acoustic Oscillatory and Monotonic Shocks in Superthermal Magnetoplasma	Radio Science	2019	2	-
616	Samiksha, Singh D., Kesavan A.K., Sohail S.K.	Exploration of anti-insect potential of trypsin inhibitor purified from seeds of <i>Sapindus mukorossi</i> against <i>Bactrocera cucurbitae</i>	Scientific Reports	2019	5	-
617	Singh M., Malhotra J.	Performance comparison of M-QAM and DQPSK modulation schemes in a $2 \times 20$ Gbit/s–40 GHz hybrid MDM–OFDM-based radio over FSO transmission system	Photonic Network Communications	2019	16	-
618	Grover L.K., Kaur A.	An Efficient Scrambled Estimator of Population Mean of Quantitative Sensitive Variable Using General Linear Transformation of Non-sensitive Auxiliary Variable	Communications in Mathematics and Statistics	2019	1	-
619	Sharma M., Jasrotia S., Ohri P., Manhas R.K.	Nematicidal potential of <i>Streptomyces antibioticus</i> strain M7 against <i>Meloidogyne incognita</i>	AMB Express	2019	3	-
620	Virdi A.S., Singh N., Pal P., Kaur P., Kaur A.	Evaluation of head and broken rice of long grain Indica rice cultivars: Evidence for the role of starch and protein composition to head rice recovery	Food Research International	2019	1	-
621	Sharma B., Gujral H.S.	Modulation in quality attributes of dough and starch digestibility of unleavened flat bread on replacing wheat flour with different minor millet flours	International Journal of Biological Macromolecules	2019	4	-
622	Pubby K., Bindra Narang S.	Ka band absorption properties of substituted nickel spinel ferrites: Comparison of open-circuit approach and short-circuit approach	Ceramics International	2019	8	-
623	Behl A., Mishra P.C.	Structural insights into the binding mechanism of Plasmodium falciparum exported Hsp40-Hsp70 chaperone pair	Computational Biology and Chemistry	2019	1	-
624	Kaur S., Kaur I.	Self-assembly of p-Aminothiophenol on Gold Surface: Application for Impedimetric and Potentiometric Sensing of Cobalt (II) Ions – A Comparative Study	Electroanalysis	2019	4	-
625	Kaur T., Rani R., Manhas R.K.	Biocontrol and plant growth promoting potential of phylogenetically new <i>Streptomyces</i> sp. MR14 of rhizospheric origin	AMB Express	2019	9	-



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626	Kaur J., Sharma A., Sharma M., Kumari Manhas R., Kaur S., Kaur A.	Effect of $\alpha$ -glycosidase inhibitors from endophytic fungus <i>Alternaria destruens</i> on survival and development of insect pest <i>Spodoptera litura</i> Fab. and fungal phytopathogens	Scientific Reports	2019	3	-
627	Kumar V., Bhatti S.S., Kaur S., Katnoria J.K., Nagpal A.K.	Assessment of tumor inducing potential of lead using crown gall tumor disc bioassay	Nucleus (India)	2019		-
628	Kataria M., Singh Z., Kumar M., Bhalla V.	'Metal free' fluorescent anionic assemblies: Efficient platform for detection of electron deficient nitroaromatics and cationic dyes	Dyes and Pigments	2019		-
629	Shiekh B.A., Kaur D., Kaur R.	Probing non-covalent interactions of phosphine and arsine derivatives: an energy decomposition analysis using localized molecular orbitals	Structural Chemistry	2019		-
630	Kahlon N.K., Chahal K.K., Narang S.B.	A weakest link-driven global QoS adjustment approach for optimizing the execution of a composite web service	Knowledge and Information Systems	2019		-
631	Arora M., Kaur A.	<i>Azolla pinnata</i> , <i>Aspergillus terreus</i> and <i>Eisenia fetida</i> for enhancing agronomic value of paddy straw	Scientific Reports	2019	5	-
632	Sood A.K., Kaur H., Banipal T.S.	Interactions in the mixed micelles of monomeric and gemini surfactants: Influence of some co-solvents as a function of temperature	Arabian Journal of Chemistry	2019	7	-
633	Khullar V., Singh H.P., Bala M.	IoT based assistive companion for hypersensitive individuals (ACHI) with autism spectrum disorder	Asian Journal of Psychiatry	2019	2	-
634	Parihar R.D., Singh D., Sohal S.K., Kesavan A.K., Ohri P., Pankaj	Molecular characterization and study of abiotic soil parameters to understand the natural habitat preference of entomopathogenic nematode <i>distolabrellus veechi</i> isolates	Indian Journal of Nematology	2019	1	-
635	Sharma R., Kumari A., Rajput S., Nishu, Arora S., Rampal R., Kaur R.	Accumulation, morpho-physiological and oxidative stress induction by single and binary treatments of fluoride and low molecular weight phthalates in <i>Spirodela polyrhiza</i> L. Schleiden	Scientific Reports	2019	3	-
636	Saini S., Kumar R., Chawla J., Kaur I.	Adsorption of bivalent lead ions from an aqueous phase system: Equilibrium, thermodynamic, kinetics, and optimization studies	Water Environment Research	2019	3	-
637	Kaur H., Arora S.	Demographic influences on consumer decisions in the banking sector: evidence from India	Journal of Financial Services Marketing	2019	2	-
638	Dogra P., Sharma R.R.	Modelling the Effects of Financial Services Advertising on Financial Product Purchase: An Empirical Validation	Vision	2019		-



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639	Behl A., Kumar V., Bisht A., Panda J.J., Hora R., Mishra P.C.	Cholesterol bound Plasmodium falciparum co-chaperone 'PFA0660w' complexes with major virulence factor 'PfEMP1' via chaperone 'PfHsp70-x'	Scientific Reports	2019	7	-
640	Pathak N., Agarwal P.C., Dhriti K.M., Kaur S., Gill T.S.	Self-Focusing of Quadruple Gaussian Laser Beam in Relativistic Plasma using Moment Theory Approach	2019 Workshop on Recent Advances in Photonics, WRAP 2019	2019		-
641	Thukral A.K., Bhardwaj R., Kumar V., Sharma A.	Corrigendum to "New indices regarding the dominance and diversity of communities, derived from sample variance and standard deviation" [Heliyon 5 (10) (October 2019) e02606](S2405844019362668)(10.1016/j.heliyon.2019.e02606)	Heliyon	2019		-
642	Singh J., Mahabaleshwar U.S., Bognár G.	Mass Transpiration in Nonlinear MHD Flow Due to Porous Stretching Sheet	Scientific Reports	2019	10	-
643	Bhagat K., Singh A., Dhiman S., Vir Singh J., Kaur R., Kaur G., Kaur Gulati H., Singh P., Kumar R., Salwan R., Bhagat K., Singh H., Sharma S., Singh Bedi P.M.	Microwave-assisted synthesis of 11-substituted-3,3-dimethyl-2,3,4,5,10,11-hexahydrodibenzo[b,e][1,4]diazepin-1-one derivatives catalysed by silica supported fluoroboric acid as potent antioxidant and anxiolytic agents	Medicinal Chemistry Research	2019	2	-
644	Singh H., Nathani S., Singh N., Roy P., Paul S., Sohail H.S., Jain S.K.	Development and characterization of Solid-SNEDDS formulation of DHA using hydrophilic carrier with improved shelf life, oxidative stability and therapeutic activity	Journal of Drug Delivery Science and Technology	2019	4	-
645	Kaur P., Purewal S.S., Sandhu K.S., Kaur M.	DNA damage protection: an excellent application of bioactive compounds	Bioresources and Bioprocessing	2019	5	-
646	Parmar R., Seth R., Singh P., Singh G., Kumar S., Sharma R.K.	Transcriptional profiling of contrasting genotypes revealed key candidates and nucleotide variations for drought dissection in <i>Camellia sinensis</i> (L.) O. Kuntze	Scientific Reports	2019	15	-
647	Khanna K., Jamwal V.L., Gandhi S.G., Ohri P., Bhardwaj R.	Metal resistant PGPR lowered Cd uptake and expression of metal transporter genes with improved growth and photosynthetic pigments in <i>Lycopersicon esculentum</i> under metal toxicity	Scientific Reports	2019	40	-
648	Sood H., Kumar Y., Gupta V.K., Arora D.S.	Scientific validation of the antimicrobial and antiproliferative potential of <i>Berberis aristata</i> DC root bark, its phytoconstituents and their biosafety	AMB Express	2019	3	-
649	Kaur R., Kaur M., Agarwal P.C., Kaur S., Kumar G.	Simulation of Terahertz Propagation by TE Mode in Metal Dielectric Metal Waveguide	2019 Workshop on Recent Advances in Photonics, WRAP 2019	2019		-
650	Singh R., Gurao A., Rajesh C., Mishra S.K., Rani S., Behl A., Kumar V., Kataria R.S.	Comparative modeling and mutual docking of structurally uncharacterized heat shock protein 70 and heat shock factor-1 proteins in water buffalo	Veterinary World	2019	4	-



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651	Hamouma O., Kaur N., Oukil D., Mahajan A., Chehimi M.M.	Paper strips coated with polypyrrole-wrapped carbon nanotube composites for chemi-resistive gas sensing	Synthetic Metals	2019	6	-
652	Kohli S.K., Bali S., Tejpal R., Bhalla V., Verma V., Bhardwaj R., Alqarawi A.A., Abd_Allah E.F., Ahmad P.	In-situ localization and biochemical analysis of bio-molecules reveals Pb-stress amelioration in Brassica juncea L. by co-application of 24-Epibrassinolide and Salicylic Acid	Scientific Reports	2019	14	-
653	Khanna K., Jamwal V.L., Sharma A., Gandhi S.G., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Marraiki N., Ahmad P.	Evaluation of the role of rhizobacteria in controlling root-knot nematode infection in Lycopersicon esculentum plants by modulation in the secondary metabolite profiles	AoB PLANTS	2019	3	-
654	Kohli S.K., Khanna K., Bhardwaj R., Abd Allah E.F., Ahmad P., Corpas F.J.	Assessment of subcellular ROS and NO metabolism in higher plants: Multifunctional signaling molecules	Antioxidants	2019	45	-
655	Kumar V., Parihar R.D., Sharma A., Bakshi P., Singh Sidhu G.P., Bali A.S., Karaouzas I., Bhardwaj R., Thukral A.K., Gyasi-Agyei Y., Rodrigo-Comino J.	Global evaluation of heavy metal content in surface water bodies: A meta-analysis using heavy metal pollution indices and multivariate statistical analyses	Chemosphere	2019	96	-
656	Sharma B., Gujral H.S.	Influence of nutritional and antinutritional components on dough rheology and in vitro protein & starch digestibility of minor millets	Food Chemistry	2019	13	-
657	Kaur S., Kaur P., Singh K.	Theoretical Approach towards the Investigation of Linear and Second-Order Nonlinear Optical Behavior of Ferrocene-Diketopyrrolopyrrole Dyads	ChemistrySelect	2019		-
658	Chawla A., Kumar S., Singh A., Malhi P.S., Sharma S., Singh M.	Effect of Starting Mn Precursor on the Structural and Ferroelectric Properties of BCT Based Solid Solutions	Integrated Ferroelectrics	2019	3	-
659	Kumar A., Sharma P., Kumar S., Singh A., Kundu R.S., Punia R.	Effect of Diamagnetic Ion Substitution on Structural and Magnetic Properties of Nd <sup>3+</sup> Modified Solid Solutions	Integrated Ferroelectrics	2019		-
660	Chopra R., Singh L., Chibale K., Singh K.	Synthesis, In Silico Molecular Docking, ADME Evaluation and In Vitro Antiplasmodial Activity of Pyrimidine-Based Hybrid Molecules	ChemistrySelect	2019	1	-
661	Singh O., Singla P., Aswal V.K., Mahajan R.K.	Impact of Aromatic Counter-Ions Charge Delocalization on the Micellization Behavior of Surface-Active Ionic Liquids	Langmuir	2019	5	-



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662	Sharma S., Dubey G., Sran B.S., Bharatam P.V., Hundal G.	Fabrication of a Hydrazone-Based Al(III)-Selective "turn-On" Fluorescent Chemosensor and Ensuing Potential Recognition of Picric Acid	ACS Omega	2019	6	-
663	Ravindra K., Singh T., Mor S., Singh V., Mandal T.K., Bhatti M.S., Gahlawat S.K., Dhankhar R., Mor S., Beig G.	Real-time monitoring of air pollutants in seven cities of North India during crop residue burning and their relationship with meteorology and transboundary movement of air	Science of the Total Environment	2019	34	-
664	Dhillon D.K., Koley S.	Neck circumference: A reliable indicator of the percent body fat in young male and female adults	International Journal of Advanced Science and Technology	2019		-
665	Mittal L.S., Sharma P., Kaur N., Singh P.	A perylenediimide based 'on-off' chemosensor for the detection of nucleoside triphosphates: An efficient ensemble for monitoring alkaline phosphatase activity	Analytical Methods	2019	5	-
666	Sharma S., Kataria M., Kumar M., Bhalla V.	Entropically Favoured Assembly of Pyrazine-Based Helical Fibers into Superstructures: Achiral/ Chiral Guest-Induced Chirality Transformation	Angewandte Chemie - International Edition	2019	3	-
667	Sharma P., Chadha P., Saini H.S.	Tetrabromobisphenol A induced oxidative stress and genotoxicity in fish <i>Channa punctatus</i>	Drug and Chemical Toxicology	2019	9	-
668	Kaur K., Beri N.	Psychometric properties of multidimensional scale of perceived social support (MSPSS): Indian adaptation	International Journal of Scientific and Technology Research	2019	1	-
669	Attri J., Kaur P.	Security concerns in cloud computing: Analysis and solution	International Journal of Innovative Technology and Exploring Engineering	2019		-
670	Singh K., Saini N.S.	The evolution of rogue wave triplets and super rogue waves in superthermal polarized space dusty plasma	Physics of Plasmas	2019	10	-
671	Arora M., Kaur A.	<i>Azolla pinnata</i> , <i>Aspergillus terreus</i> , and <i>Eisenia fetida</i> for faster recycling of nutrients from wheat straw	Environmental Science and Pollution Research	2019	1	-
672	Sharma B., Gujral H.S.	Characterization of thermo-mechanical behavior of dough and starch digestibility profile of minor millet flat breads	Journal of Cereal Science	2019	4	-
673	Singh K., Singh N., Kaur A., Viridi A.S., Dar O.I., Sharma S.	Functional properties and dynamic rheology of protein isolates extracted from male and female common carp ( <i>Cyprinus carpio</i> ) muscle subjected to pH-shifting method	Journal of Food Processing and Preservation	2019	1	-
674	Jain R.K., Kaur J., Khanna A., Chawla A.K.	Tailoring the structural, electrical, optical and wettability properties of ZnSe films by oblique angle thermal evaporation	Materials Research Express	2019	1	-



Sr. No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	Citation Index	Number of citations excluding self citation
675	Singh G., Singh R.C.	Highly sensitive and selective liquefied petroleum gas sensor based on novel ZnO–NiO heterostructures	Journal of Materials Science: Materials in Electronics	2019	3	-
676	Pathak N., Kaur M., Kaur S., Gill T.S.	Non-paraxial theory of self-focusing/defocusing of Hermite cosh Gaussian laser beam in rippled density plasmas	Contributions to Plasma Physics	2019	2	-
677	Sood A.K., Aggarwal M.	Mixed Micellar and Interfacial Studies of Triblock Copolymers with Amphiphilic Drug Ibuprofen in Aqueous Urea Solutions	Journal of Surfactants and Detergents	2019		-
678	Lone M.Y., Kumar A., Ansari N., Husain S., Zulfequar M., Singh R.C., Husain M.	Structural effect of SWCNTs grown by PECVD towards NH <sub>3</sub> gas sensing and field emission properties	Materials Research Bulletin	2019	4	-
679	Paul S., Manokamna, Kaur S., Malhi P.S., Singh A., Kumar A.	Effect of Fe substitution on the structural, electrical and dielectric properties of La <sub>0.70</sub> Ca <sub>0.30</sub> MnO <sub>3</sub> cathode for SOFCs	International Journal of Innovative Technology and Exploring Engineering	2019		-
680	Bansal S., Aggarwal M., Gill T.S.	Effect of positron density and temperature on the electron acoustic waves in a magnetized dissipative plasma	Contributions to Plasma Physics	2019	3	-
681	Yadav U., Singh N., Arora S., Arora B.	Physicochemical, pasting, and thermal properties of starches isolated from different adzuki bean ( <i>Vigna angularis</i> ) cultivars	Journal of Food Processing and Preservation	2019	2	-
682	Varsha, Bala M., Kumar M., Kumar N.	Development of qos optimized routing using artificial bee colony and tabu-ga with a mobile base station in wireless sensor network	International Journal of Innovative Technology and Exploring Engineering	2019	1	-
683	Kaur M., Punia S., Sandhu K.S., Ahmed J.	Impact of high pressure processing on the rheological, thermal and morphological characteristics of mango kernel starch	International Journal of Biological Macromolecules	2019	7	-
684	Shalini, Johansen M.D., Kremer L., Kumar V.	Variably connected 1,8-naphthalimide-7-chloroquinoline conjugates: Synthesis, anti-mycobacterial and cytotoxic evaluation	Bioorganic Chemistry	2019	2	-
685	Khanna K., Sharma A., Ohri P., Bhardwaj R., Abd-Allah E.F., Hashem A., Ahmad P.	Impact of plant growth promoting rhizobacteria in the orchestration of <i>Lycopersicon esculentum</i> mill. Resistance to plant parasitic nematodes: A metabolomic approach to evaluate defense responses under field conditions	Biomolecules	2019	7	-
686	Bali S., Jamwal V.L., Kohli S.K., Kaur P., Tejpal R., Bhalla V., Ohri P., Gandhi S.G., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ali H.M., Ahmad P.	Jasmonic acid application triggers detoxification of lead (Pb) toxicity in tomato through the modifications of secondary metabolites and gene expression	Chemosphere	2019	19	-



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687	Sharma A., Kumar V., Shahzad B., Tanveer M., Sidhu G.P.S., Handa N., Kohli S.K., Yadav P., Bali A.S., Parihar R.D., Dar O.I., Singh K., Jasrotia S., Bakshi P., Ramakrishnan M., Kumar S., Bhardwaj R., Thukral A.K.	Worldwide pesticide usage and its impacts on ecosystem	SN Applied Sciences	2019	61	-
688	Sharma R., Bhardwaj R., Thukral A.K., Al-Huqail A.A., Siddiqui M.H., Ahmad P.	Oxidative stress mitigation and initiation of antioxidant and osmoprotectant responses mediated by ascorbic acid in Brassica juncea L. subjected to copper (II) stress	Ecotoxicology and Environmental Safety	2019	9	-
689	Chhabra N., Bala M.	Study of existing cloud data storage techniques with respect to optimized duplication: Deduplication	International Journal of Advanced Science and Technology	2019	-	-
690	Singh G.P., Singh J., Singh R.C., Singh K.J.	Investigation of structural and optical properties of pure and zinc doped CuO nanoparticles	AIP Conference Proceedings	2019	1	-
691	Batra M.S., Dwivedi R., Prasad R.	Recent Developments in Heterogeneous Catalyzed Epoxidation of Styrene to Styrene Oxide	ChemistrySelect	2019	7	-
692	Kaur H., Marwaha A., Singh C., Narang S.B., Jotania R., Jacobo S., Sombra A.S.B., Trukhanov S.V., Trukhanov A.V., Dhruv P.	Investigation of structural, hysteresis and electromagnetic parameters for microwave absorption application in doped Ba-Sr hexagonal ferrites at X-band	Journal of Alloys and Compounds	2019	18	-
693	Phillips H.R.P., Guerra C.A., Bartz M.L.C., Briones M.J.I., Brown G., Crowther T.W., Ferlian O., Gongalsky K.B., Van Den Hoogen J., Krebs J., Orgiazzi A., Routh D., Schwarz B., Bach E.M., Bennett J., Brose U., Decaëns T., König-Ries B., Loreau M., Mathieu J., Mulder C., Van Der Putten W.H., Ramirez K.S., Rillig M.C., Russell D., Rutgers M., Thakur M.P., De Vries F.T., Wall D.H., Wardle D.A., Arai M., Ayuke F.O., Baker G.H., Beauséjour R., Bedano J.C., Birkhofer K.,	Global distribution of earthworm diversity	Science	2019	55	-



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	Blanchart E., Blossey B., Bolger T., Bradley R.L., Callaham M.A., Capowicz Y., Caulfield M.E., Choi A., Crotty F.V., Dávalos A., Cosin D.J.D., Dominguez A., Duhour A.E., Van Eekeren N., Emmerling C., Falco L.B., Fernández R., Fonte S.J., Fragoso C., Franco A.L.C., Fugère M., Fusilero A.T., Gholami S., Gundale M.J., Lopez M.G., Hackenberger D.K., Hernández L.M., Hishi T., Holdsworth A.R., Holmstrup M., Hopfensperger K.N., Lwanga E.H., Huhta V., Hurisso T.T., Iannone B.V., Iii, Iordache M., Joschko M., Kaneko N., Kanianska R., Keith A.M., Kelly C.A., Kernecker M.L., Klaminder J., Koné A.W., Kooch Y., Kukkonen S.T., Lalthanzara H., Lammel D.R., Lebedev I.M., Li Y., Lidon J.B.J., Lincoln N.K., Loss S.R., Marichal R., Matula R., Moos J.H., Moreno G., Mor n-Ríos A., Muys B., Neiryneck J., Norgrove L., Novo M., Nuutinen V., Nuzzo V., Mujeeb Rahman P., Pansu J., Paudel S., Pérès G., Pérez-Camacho L., Piñeiro R., Ponge J.-F., Rashid M.I., Rebollo S., Rodeiro-Iglesias J., Rodríguez M.Á., Roth A.M., Rousseau G.X., Rozen A., Sayad E., Van Schaik L., Scharenbroch B.C.,					



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	Schirrmann M., Schmidt O., Schröder B., Seeber J., Shashkov M.P., Singh J., Smith S.M., Steinwandter M., Talavera J.A., Trigo D., Tsukamoto J., De Valença A.W., Vanek S.J., Virto I., Wackett A.A., Warren M.W., Wehr N.H., Whalen J.K., Wironen M.B., Wolters V., Zenkova I.V., Zhang W., Cameron E.K., Eisenhauer N.					
694	Soni P.	Revisiting the role of relationship benefits in online retail	Marketing Intelligence and Planning	2019	3	-
695	Kaur P., Kriti, Kaur S., Arora D., Rahul, Kandasami A., Singh D.P.	Correlation among lattice strain, defect formation and luminescence properties of transition metal doped ZnO nano-crystals prepared via low temperature technique	Materials Research Express	2019	2	-
696	Kaur N., Kang L.S.	The costs and benefits of going beyond the call of duty	International Journal of Productivity and Performance Management	2019		-
697	Suri K., Singh B., Kaur A., Yadav M.P., Singh N.	Impact of infrared and dry air roasting on the oxidative stability, fatty acid composition, Maillard reaction products and other chemical properties of black cumin (Nigella sativa L.) seed oil	Food Chemistry	2019	18	-
698	Samiksha, Singh D., Kesavan A.K., Sohal S.K.	Purification of a trypsin inhibitor from Psoralea corylifolia seeds and its influence on developmental physiology of Bactrocera cucurbitae	International Journal of Biological Macromolecules	2019	3	-
699	Kaur H., Sood S.K.	Fog-assisted IoT-enabled scalable network infrastructure for wildfire surveillance	Journal of Network and Computer Applications	2019	10	-
700	Gupta N., Khanna A., Barriuso M.G., González F.	Effects of doping of trivalent ions on glass and anti-glass phases of Bi <sub>2</sub> O <sub>3</sub> -Nb <sub>2</sub> O <sub>5</sub> -TeO <sub>2</sub> system	Journal of Non-Crystalline Solids	2019	5	-
701	Kaur J., Arora S.	Indian students' attitude toward educational debt: scale development and validation	Quality Assurance in Education	2019	1	-
702	Pal Kaur R.	Impact of time delay in a forest biomass model in the presence of export and industry	International Journal of Advanced Science and Technology	2019	-	-
703	Kaur R.P.	Impact of virus in a resource biomass model with industry	International Journal of Advanced Science and Technology	2019	-	-



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704	Kaur R.P.	Impact of industry and export on the biomass resources	International Journal of Advanced Science and Technology	2019	-	-
705	Monga S., Dwivedi N.R., Pathak D., Kaur H., Jain S.R.	Semiclassical description of $\alpha$ - Radioactivity in even-even nuclei	Journal of Physics G: Nuclear and Particle Physics	2019	2	-
706	Ghai Y., Saini N.S., Eliasson B.	Neutrino-driven Instability of Ion Acoustic Waves in an Ultrarelativistic Degenerate Plasma	Astrophysical Journal	2019		-
707	Kumar Godara S., Kaur V., Narang S.B., Singh M., Bhadu G.R., Chaudhari J.C., Mudsainiyan R.K., Sood A.K.	Tunable M-type nano barium hexaferrite material by Zn <sup>2+</sup> /Zr <sup>4+</sup> co-doping	Materials Research Express	2019	5	-
708	Singh R., Dureja J.S., Dogra M., Randhawa J.S.	Optimization of machining parameters under MQL turning of Ti-6Al-4V alloy with textured tool using multi-attribute decision-making methods	World Journal of Engineering	2019	10	-
709	Kumar R., Mahey S., Arora R., Mahajan J., Kumar V., Arora S.	Insights into biological properties of less explored bark of industrially important Acacia catechu Willd	Industrial Crops and Products	2019	2	-
710	Jain S.K., Kaur M., Kalyani P., Mehra A., Kaur N., Panchal N.	Microsponges enriched gel for enhanced topical delivery of 5-fluorouracil	Journal of Microencapsulation	2019	3	-
711	Chawla A., Singh A., Singh M., Malhi P.S.	Small polaron hopping-assisted electrical conduction and relaxation in BCT and Mn-doped BCT samples	Journal of Asian Ceramic Societies	2019	2	-
712	Mukhtar H.M., Singh A., Soni V., Singh A., Kaur H.	Development and validation of RP-HPLC method for the determination of stigmasterol in the botanical extract of Ficus deltoidea	Natural Product Research	2019		-
713	Kaur A., Kaur M.	Impact of packaging materials and different chemicals on storage and shelf life of pear cv. Punjab beauty	International Journal of Advanced Science and Technology	2019		-
714	Kaur A., Yadav M.P., Singh B., Bhinder S., Simon S., Singh N.	Isolation and characterization of arabinoxylans from wheat bran and study of their contribution to wheat flour dough rheology	Carbohydrate Polymers	2019	16	-
715	Kaur H., Khullar V., Singh H.P., Bala M.	Perinatal hypoxia diagnostic system by using scalable machine learning algorithms	International Journal of Innovative Technology and Exploring Engineering	2019	-	-
716	Priya M., Malhotra J.	Mobile Network Architecture for Emergency Rescue Services in the Smart City	Proceedings - 2019 International Conference on Computing, Communication, and Intelligent Systems, ICCIS 2019	2019	-	-



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717	Kaur K., Koley S.	Estimation of back strength, hip circumference and buttock knee length and its correlation with explosive power in indian state and national level gymnasts	International Journal of Advanced Science and Technology	2019	-	-
718	Kaur G., Luthra A.	Post-independence institutional efforts in planned housing development in Amritsar (Punjab, India)	International Journal of Engineering and Advanced Technology	2019	-	-
719	Dhillon P.K., Kalra S.	A secure multifactor remote user authentication scheme for Internet of Multimedia Things environment	International Journal of Communication Systems	2019	2	-
720	Thakur S., Kaur A., Singh L.	Mixed valence effect of Se <sup>6+</sup> and Zr <sup>4+</sup> on structural, thermal, physical, and optical properties of B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -SeO <sub>2</sub> -ZrO <sub>2</sub> glasses	Optical Materials	2019	9	-
721	Kumar V., Behl A., Sharma R., Sharma A., Hora R.	Plasmodium helical interspersed subtelomeric family—an enigmatic piece of the Plasmodium biology puzzle	Parasitology Research	2019		-
722	Singh H., Kaur M., Kaur H., Sharma I., Bhandari A., Kaur G., Singh P.	Structural tuning of acridones for developing anticancer agents targeting dihydrofolate reductase	Bioorganic and Medicinal Chemistry Letters	2019	2	-
723	Kaur S., Sharma D., Singh A.P., Kaur S.	Amelioration of hepatic function, oxidative stress, and histopathologic damages by Cassia fistula L. fraction in thioacetamide-induced liver toxicity	Environmental Science and Pollution Research	2019	6	-
724	Sharma S., Singh P., Chadha P., Saini H.S.	Toxicity assessment of chlorpyrifos on different organs of rat: exploitation of microbial-based enzymatic system for neutralization	Environmental Science and Pollution Research	2019	1	-
725	Kumar M., Saini H.S.	Reduction of hexavalent chromium (VI) by indigenous alkaliphilic and halotolerant Microbacterium sp. M5: comparative studies under growth and nongrowth conditions	Journal of Applied Microbiology	2019	1	-
726	Singh M., Singh K.	Agronomic zinc biofortification of wheat	Agrochimica	2019		-
727	Walia G.S., Singh H., Kaur J., Kushwaha M.K., Singh A., Saini N.S.	Combined mild and hard novel fabrication approach for nanoporous membrane	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2019	1	-
728	Malik S.S., Mazumdar I.	Role of quantum phase transition in spontaneous fission	Nuclear Physics A	2019		-
729	Saxena R., Kaur J., Hora R., Singh P., Singh V., Mishra P.C.	CX3CL1 binding protein-2 (CBP2) of Plasmodium falciparum binds nucleic acids	International Journal of Biological Macromolecules	2019	1	-
730	Singh G., Bhatti R., Mannan R., Singh D., Kesavan A., Singh P.	Osthole ameliorates neurogenic and inflammatory hyperalgesia by modulation of iNOS, COX-2, and inflammatory cytokines in mice	Inflammopharmacology	2019	8	-



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731	Kaur P., Duong A., Chawla S.K., Narang S.B., Meena S.S.	Effect of precursors on the structural, magnetic, dielectric, microwave and electromagnetic properties of Co-Zr doped nanocrystalline strontium hexaferrites synthesized via sol-gel method	SN Applied Sciences	2019	2	-
732	Singh H., Kalsi S.B.S., Sidhu T.S., Dhulka M.P.S., Singh D.P., Saini N.P.S.	Microstructure of Ni-Cr-Based Coating for Corrosive Conditions	Journal of Thermal Spray Technology	2019	2	-
733	Khanna K., Kohli S.K., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Alosaimi G.S., Ahmad P.	Microbial fortification improved photosynthetic efficiency and secondary metabolism in lycopersicon esculentum plants under cd stress	Biomolecules	2019	6	-
734	Thukral A.K., Bhardwaj R., Kumar V., Sharma A.	New indices regarding the dominance and diversity of communities, derived from sample variance and standard deviation	Heliyon	2019	3	-
735	Bhatia M., Sood S.K., Kaur S.	Quantum-based predictive fog scheduler for IoT applications	Computers in Industry	2019	11	-
736	Hans M., Kumar S., Chandel A.K., Polikarpov I.	A review on bioprocessing of paddy straw to ethanol using simultaneous saccharification and fermentation	Process Biochemistry	2019	12	-
737	Chahal A., Kumar S., Panghal A., Kumar A., Singh J., Singh P., Bajwa B.S.	Study of Uranium in Drinking Water around the Sohna Fault Line in Haryana	Journal of the Geological Society of India	2019	1	-
738	Sharma N., Sharma A., Bhatia G., Landi M., Brestic M., Singh B., Singh J., Kaur S., Bhardwaj R.	Isolation of phytochemicals from Bauhinia variegata L. Bark and their in vitro antioxidant and cytotoxic potential	Antioxidants	2019	7	-
739	Singh C., Bai Y., Narang S.B., Mishra S.R., Singh D., Sombra A.S.B., Jotania R., Trukhanov S.V., Trukhanov A.V., Ghimire M., Kagdi A.	Bandstop Passive Filter Characteristics of Hexagonal Ferrite Composites at X-Band	Journal of Electronic Materials	2019	2	-
740	Shiekh B.A.	Hierarchy of Commonly Used DFT Methods for Predicting the Thermochemistry of Rh-Mediated Chemical Transformations	ACS Omega	2019	4	-
741	Prakash O., Saxena V., Choudhury S., Tanvi, Singh A., Debnath A.K., Mahajan A., Muthe K.P., Aswal D.K.	Low temperature processable ultra-thin WO <sub>3</sub> Langmuir-Blodgett film as excellent hole blocking layer for enhanced performance in dye sensitized solar cell	Electrochimica Acta	2019	6	-



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742	Kumar S., Scheidt H.A., Kaur N., Kang T.S., Gahlay G.K., Huster D., Mithu V.S.	Effect of the Alkyl Chain Length of Amphiphilic Ionic Liquids on the Structure and Dynamics of Model Lipid Membranes	Langmuir	2019	10	-
743	Datta S., Singh S., Kumar V., Dhanjal D.S., Sidhu G.K., Amin D.S., Kumar S., Singh J., Singh J.	Endophytic bacteria in xenobiotic degradation	Microbial Endophytes: Prospects for Sustainable Agriculture	2019	1	-
744	Betlem K., Kaur A., Hudson A.D., Crapnell R.D., Hurst G., Singla P., Zubko M., Tedesco S., Banks C.E., Whitehead K., Peeters M.	Heat-Transfer Method: A Thermal Analysis Technique for the Real-Time Monitoring of Staphylococcus aureus Growth in Buffered Solutions and Digestate Samples	ACS Applied Bio Materials	2019	3	-
745	Singh A., Zhang D., Tam C.C., Cheng L.W., Land K.M., Kumar V.	Click-chemistry approach to synthesis of functionalized isatin-ferrocenes and their biological evaluation against the human pathogen Trichomonas vaginalis	Journal of Organometallic Chemistry	2019	2	-
746	Sharma A., Yuan H., Kumar V., Ramakrishnan M., Kohli S.K., Kaur R., Thukral A.K., Bhardwaj R., Zheng B.	Castasterone attenuates insecticide induced phytotoxicity in mustard	Ecotoxicology and Environmental Safety	2019	15	-
747	Rai R., Bibra M., Chadha B.S., Sani R.K.	Enhanced hydrolysis of lignocellulosic biomass with doping of a highly thermostable recombinant laccase	International Journal of Biological Macromolecules	2019	14	-
748	Kaur N., Sharma P., Banipal T.S., Banipal P.K., Aggarwal N.	Effect of Caffeine on the Physicochemical Properties of Neurotransmitter GABA: Thermodynamic and Theoretical Approach	Journal of Chemical and Engineering Data	2019	3	-
749	Angurala M., Bala M., Bamber S.S.	An optimal topology selection for power recharging model in wireless sensor networks)	International Journal of Advanced Science and Technology	2019		-
750	Kaur K., Kataria M., Kaur M., Sood A.K., Kumar M., Bhalla V.	AIEE Active Supramolecular Metallic Ensemble as "turn-On" Platform for Detection of Creatinine in Human Blood Serum at Picomolar Level	ACS Sustainable Chemistry and Engineering	2019	4	-
751	Kumar V., Hundal B.S.	Evaluating the service quality of solar product companies using SERVQUAL model	International Journal of Energy Sector Management	2019	8	-
752	Kumar V., Hundal B.S., Kaur K.	Factors affecting consumer buying behaviour of solar water pumping system	Smart and Sustainable Built Environment	2019	7	-
753	Kaur R., Singh G.	A survey of genetic algorithm based load balancing techniques for task graph scheduling problem in distributed environment	International Journal of Scientific and Technology Research	2019		-



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754	Singh K., Sethi P., Saini N.S.	Nonlinear excitations in a degenerate relativistic magneto-rotating quantum plasma	Physics of Plasmas	2019	7	-
755	Sood S.K., Singh K.D.	Optical fog-assisted smart learning framework to enhance students' employability in engineering education	Computer Applications in Engineering Education	2019	4	-
756	Singh M., Malhotra J.	Performance investigation of high-speed FSO transmission system under the influence of different atmospheric conditions incorporating 3-D orthogonal modulation scheme	Optical and Quantum Electronics	2019	9	-
757	Singh H., Kaur K., Singh S., Kaur P., Singh P.	Genome-wide analysis of cyclophilin gene family in wheat and identification of heat stress responsive members	Plant Gene	2019	1	-
758	Dogra A., Kaur T.	DDOS attack detection and handling mechanism in WSN	International Journal of Recent Technology and Engineering	2019	-	-
759	Sandhu V., Atwal H.	Goods and services tax: Issues and challenges in India	International Journal of Recent Technology and Engineering	2019	1	-
760	Dogra A., Taqdir	Detecting intrusion with high accuracy: Using hybrid K-Multi layer perceptron	International Journal of Recent Technology and Engineering	2019	-	-
761	Kaur H., Khosla M., Sarin R.K.	Hybrid Type-2 Fuzzy Based Channel Estimation for MIMO-OFDM System with Doppler Offset Influences	Wireless Personal Communications	2019	1	-
762	Kaur M., Saraf I., Kumar R., Singh I.P., Kaur S.	Bioefficacy of Hexane Extract of Inula racemosa (Asteraceae) Against Spodoptera litura (Lepidoptera: Noctuidae) [Biowirksamkeit des Hexanextrakts aus Inula racemosa (Asteraceae) gegen Spodoptera litura (Lepidoptera: Noctuidae)]	Gesunde Pflanzen	2019	1	-
763	Paul S., Manokamna, Kaur S., Malhi P.S., Singh A., Kumar A.	Structural, dielectric and electrical properties of fe doped la0.7ba0.3mno3solid solutions for cathode materials	International Journal of Recent Technology and Engineering	2019	-	-
764	Kalsi P., Singh H.	Sensors based automotive vehicle for the detection of fuel level	International Journal of Innovative Technology and Exploring Engineering	2019	-	-
765	Singh H., Punia R., Ganesh A., Duttagupta A., Kaur A., Blennow A.	Modification of Moth Bean Starch Using Mixture of Organic Acids under Dry Heating	Starch/Staerke	2019	5	-
766	Katyal M., Singh N., Viridi A.S., Kaur A., Chopra N., Agarwal S., Roy J.K.	Effect of debranning on grains and meal characteristics of different Indian and exotic wheat varieties	Food Research International	2019	2	-



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767	Singh I., Singh G., Verma V., Singh S., Chandra R.	In Silico Evaluation of Variable pH on the Binding of Epidermal Growth Factor Receptor Ectodomain to its Ligand Through Molecular Dynamics Simulation in Tumors	Interdisciplinary Sciences: Computational Life Sciences	2019	1	-
768	Poonia N., Kaur Narang J., Lather V., Beg S., Sharma T., Singh B., Pandita D.	Resveratrol loaded functionalized nanostructured lipid carriers for breast cancer targeting: Systematic development, characterization and pharmacokinetic evaluation	Colloids and Surfaces B: Biointerfaces	2019	18	-
769	Gupta V., Kumar A., Chaudhary M., Sehajpal P.K.	Protective effect of high levels of TGF- $\beta$ 1 cytokine and its corresponding allele at C-509T locus in Punjabi ESRD population	Meta Gene	2019		-
770	Bansal S., Aggarwal M., Gill T.S.	Theoretical analysis of planar and non-planar electron - acoustic shock waves in electron-positron-ion plasma	Contributions to Plasma Physics	2019	4	-
771	Khanna K., Jamwal V.L., Sharma A., Gandhi S.G., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ali H.M., Ahmad P.	Supplementation with plant growth promoting rhizobacteria (PGPR) alleviates cadmium toxicity in Solanum lycopersicum by modulating the expression of secondary metabolites	Chemosphere	2019	32	-
772	Dhillon P.K., Kalra S.	Secure and efficient ECC based SIP authentication scheme for VoIP communications in internet of things	Multimedia Tools and Applications	2019	12	-
773	Singh C., Bai Y., Narang S.B., Sombra A.S.B., Mishra S.R., Jotania R., Khanna R., Trukhanov S.V., Trukhanov A.V., Ghimire M.	Microwave filter characteristics of ferrite and polyaniline composites from 8.2 to 12.4 GHz	Journal of Materials Science: Materials in Electronics	2019	-	-
774	Shailja K.J.S., Singh R.C.	Effect of pH on the structural, optical and gas sensing properties of nickel oxide	AIP Conference Proceedings	2019	-	-
775	Thakur S., Kaur P., Singh L.	Investigation of polymethyl methacrylate incorporated neodymium oxide for gamma-ray and neutron shielding behaviour	AIP Conference Proceedings	2019	1	-
776	Kaur J., Singh R.C.	Effect of iron ion implantation dose on optical and structural properties of CdS nanowires	AIP Conference Proceedings	2019	-	-
777	Sood A.K.	Influence of some polymers on micellization behavior of sodium caprylate and cetyl pyridinium chloride	AIP Conference Proceedings	2019	-	-
778	Kaur A., Singh R.C.	Sonication assisted graphene exfoliation for preparation of conductive inks	AIP Conference Proceedings	2019	-	-
779	Sarin N., Singh K.J., Kaur R., Singh J., Kaur P.	Evaluation of bone regeneration ability of 42SiO <sub>2</sub> -37CaO-10P <sub>2</sub> O <sub>5</sub> -6MnO-5ZnO bioceramic composition	AIP Conference Proceedings	2019	-	-



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780	Pathak N., Kaur P., Agrawal P.C., Kaur S.	Propagation characteristics of non-Gaussian laser beam in a plasma with density ramp using Moment Theory Approach	AIP Conference Proceedings	2019	-	-
781	Kumar S.G., Kaur V., Sood A.K., Bhadu G.R., Chaudhari J.C., Narang S.B.	Effect of different fuel combination on structure and properties of M type hexaferrite BaZn <sub>0.2</sub> Zr <sub>0.2</sub> Fe <sub>11.6</sub> O <sub>19</sub>	AIP Conference Proceedings	2019	-	-
782	Kaur P., Singh K.J., Thakur S., Sarin N.	Assessment of the gamma-radiation and neutron shielding ability of Sb <sub>2</sub> O <sub>3</sub> -WO <sub>3</sub> -PbO-Na <sub>2</sub> O glass system	AIP Conference Proceedings	2019	-	-
783	Kaur A., Singh R.C.	Unveiling the tunneling phenomena in graphene-graphene homo-junctions for emerging device applications	Journal of Physics Condensed Matter	2019	1	-
784	Gothwal A., Singh H., Jain S.K., Dutta A., Borah A., Gupta U.	Behavioral and Biochemical Implications of Dendrimeric Rivastigmine in Memory-Deficit and Alzheimer's Induced Rodents	ACS Chemical Neuroscience	2019	1	-
785	Das A., Saini C.P., Singh D., Ahuja R., Kaur A., Aliukov S., Shukla D., Singh F.	High temperature-mediated rocksalt to wurtzite phase transformation in cadmium oxide nanosheets and its theoretical evidence	Nanoscale	2019	3	-
786	Kaur A., Kumar S., Kaur P.	Achieving colossal Kerr nonlinearity via multiphoton atomic coherence in a five-level $\Lambda$ - $\Xi$ system	Physica Scripta	2019	2	-
787	Kaur R., Singh B.	Do CEO characteristics explain firm performance in India?	Journal of Strategy and Management	2019	5	-
788	Kaur H., Sohal S.	Examining the relationships between political advertisements, party brand personality, voter satisfaction and party loyalty	Journal of Indian Business Research	2019	1	-
789	Sekhon J.S., Kumar A.	An outlier in the north success of the Congress in Punjab	Economic and Political Weekly	2019		-
790	Gupta M., Kaur G.	Withania somnifera (L.) Dunal ameliorates neurodegeneration and cognitive impairments associated with systemic inflammation	BMC Complementary and Alternative Medicine	2019	10	-
791	Arora D.S., Mahajan H.	Major Phytoconstituents of Prunus cerasoides Responsible for Antimicrobial and Antibiofilm Potential Against Some Reference Strains of Pathogenic Bacteria and Clinical Isolates of MRSA	Applied Biochemistry and Biotechnology	2019	5	-
792	Bhatia M., Sood S.K.	Exploring Temporal Analytics in Fog-Cloud Architecture for Smart Office HealthCare	Mobile Networks and Applications	2019	13	-
793	Nanda D., Kumar P., Samanta B., Sahu R., Singh A.	Structural, Dielectric, Ferroelectric and Magnetic Properties of (BNT-BT)-NCZF Composites Synthesized by a Microwave-Assisted Solid-State Reaction Route	Journal of Electronic Materials	2019	6	-



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794	Pahwa C., Narang S.B., Sharma P.	Interfacial exchange coupling driven magnetic and microwave properties of BaFe <sub>12</sub> O <sub>19</sub> /Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanocomposites	Journal of Magnetism and Magnetic Materials	2019	11	-
795	Arora A., Narang S.B., Pubby K.	Enhanced Microwave Absorption Properties of Doped M-Type Barium Hexagonal Ferrites in Ka-band Frequencies	Journal of Superconductivity and Novel Magnetism	2019	1	-
796	Singh H., Singh J.V., Bhagat K., Gulati H.K., Sanduja M., Kumar N., Kinarivala N., Sharma S.	Rational approaches, design strategies, structure activity relationship and mechanistic insights for therapeutic coumarin hybrids	Bioorganic and Medicinal Chemistry	2019	32	-
797	Passan S., Goyal S., Bhat M.A., Singh D., Vanita V.	Association of TNF- $\alpha$ gene alterations (c.-238G>A, c.-308G>A, c.-857C>T, c.-863C>A) with primary glaucoma in north Indian cohort	Gene	2019	2	-
798	Sethi P., Kaur N., Singh K., Singh M., Saini N.S.	Positron-acoustic nonlinear waves in multicomponent plasmas	AIP Conference Proceedings	2019	-	-
799	Kaur N., Sethi P., Singh M., Singh K., Saini N.S.	Nonlinear excitations in a relativistic plasma with non-Maxwellian electrons	AIP Conference Proceedings	2019	-	-
800	Singh M., Singh K., Sethi P., Kaur N., Saini N.S.	Three dimensional ion acoustic solitary waves in a magnetized plasma consisting of two temperature nonextensive electrons	AIP Conference Proceedings	2019	-	-
801	Singh K., Singh M., Kaur N., Sethi P., Saini N.S.	Ion acoustic shocks in degenerate plasma with trapping in a quantizing magnetic field	AIP Conference Proceedings	2019	1	-
802	Bansal S., Gill T.S., Aggarwal M.	Oblique modulation of electron acoustic waves in superthermal plasma	Physica Scripta	2019	1	-
803	Bhalla A., Kang L.S.	Domain-specific and nonspecific outcomes of work-family interface: A study of Indian journalists	Evidence-based HRM	2019	1	-
804	Singh M., Malhotra J.	Long-Reach High-Capacity Hybrid MDM-OFDM-FSO Transmission Link Under the Effect of Atmospheric Turbulence	Wireless Personal Communications	2019	18	-
805	Kaur K., Kaur K.	Learning towards failure prediction of high performance computing clusters by employing LSTM	International Journal of Engineering and Advanced Technology	2019	-	-
806	Kaur A.P., Sohal S.K.	Purified winged bean protease inhibitor affects the growth of <i>Bactrocera cucurbitae</i>	Bulletin of Entomological Research	2019	2	-
807	Kaur J., Singh M.L., Sohal R.S.	Analysis of sum spectrum efficiency in multiple antennas multi-user MIMO cellular system for millimeter wave communications	Sadhana - Academy Proceedings in Engineering Sciences	2019	-	-



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808	Kaur K., Singh K.J., Anand V., Bhatia G., Singh A.P., Kaur M.	Elucidating the role of size of hydroxyl apatite particles toward the development of competent antiosteoporotic bioceramic materials: In vitro and in vivo studies	Journal of Biomedical Materials Research - Part A	2019	1	-
809	Gulati N., Kaur P.D.	Towards socially enabled internet of industrial things: Architecture, semantic model and relationship management	Ad Hoc Networks	2019	10	-
810	Singh G., Kaur A., Kaur J., Bhatti M.S., Singh P., Bhatti R.	Bergapten inhibits chemically induced nociceptive behavior and inflammation in mice by decreasing the expression of spinal PARP, iNOS, COX-2 and inflammatory cytokines	Inflammopharmacology	2019	7	-
811	Singh J., Sharma S., Soni S., Sharma S., Chand Singh R.	Influence of different milling media on structural, morphological and optical properties of the ZnO nanoparticles synthesized by ball milling process	Materials Science in Semiconductor Processing	2019	14	-
812	Saini S., Chawla J., Kumar R., Kaur I.	Response surface methodology (RSM) for optimization of cadmium ions adsorption using C16-6-16 incorporated mesoporous MCM-41	SN Applied Sciences	2019	2	-
813	Kaur R., Singh G.	Design and analysis of multi-heuristic based solution for task graph scheduling problem	International Journal of Engineering and Advanced Technology	2019	-	-
814	Kaur A., Singh L., Singh N., Bhatti M.S., Bhatti R.	Ameliorative effect of imperatorin in chemically induced fibromyalgia: Role of NMDA/NFkB mediated downstream signaling	Biochemical Pharmacology	2019	14	-
815	Kaur A., Gourav, Kumar S., Jaiswal N., Vashisht A., Kumar D., Gahlay G.K., Mithu V.S.	NMR characterization of conformational fluctuations and noncovalent interactions of SUMO protein from Drosophila melanogaster (dSmt3)	Proteins: Structure, Function and Bioinformatics	2019	2	-
816	Pubby K., Bhongale S.R., Vasambekar P.N., Narang S.B.	Ni <sub>0.1</sub> CO <sub>0.9</sub> Fe <sub>2</sub> O <sub>4</sub> spinel ferrite as a promising magneto-dielectric substrate for X-band Microstrip Patch Antenna	2019 3rd International Conference on Electronics, Materials Engineering and Nano-Technology, IEMENTech 2019	2019	-	-
817	Kumar R., Kumar V., Sharma A., Singh N., Kumar R., Katnoria J.K., Bhardwaj R., Thukral A.K., Rodrigo-Comino J.	Assessment of pollution in roadside soils by using multivariate statistical techniques and contamination indices	SN Applied Sciences	2019	6	-
818	Ahluwalia P., Mondal A.K., Bloomer C., Fulzele S., Jones K., Ananth S., Gahlay G.K., Heneidi S., Rojiani A.M., Kota V., Kolhe R.	Identification and clinical validation of a novel 4 gene-signature with prognostic utility in colorectal cancer	International Journal of Molecular Sciences	2019	11	-
819	Kapoor D., Singh M.P., Kaur S., Bhardwaj R., Zheng B., Sharma A.	Modulation of the functional components of growth, photosynthesis, and anti-oxidant stress markers in cadmium exposed Brassica juncea L.	Plants	2019	12	-



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820	Dwivedi N.R., Monga S., Kaur H., Jain S.R.	Ignatyuk damping factor: A semiclassical formula	International Journal of Modern Physics E	2019	2	-
821	Carol Trudel T.T., Mohammed J., Hafeez H.Y., Bhat B.H., Godara S.K., Srivastava A.K.	Structural, Dielectric, and Magneto-Optical Properties of Al-Cr Substituted M-Type Barium Hexaferrite	Physica Status Solidi (A) Applications and Materials Science	2019	12	-
822	Dadwal S., Deol H., Kumar M., Bhalla V.	AIEE Active Nanoassemblies of Pyrazine Based Organic Photosensitizers as Efficient Metal-Free Supramolecular Photoredox Catalytic Systems	Scientific reports	2019	4	-
823	Singh A., Singh J.V., Rana A., Bhagat K., Gulati H.K., Kumar R., Salwan R., Bhagat K., Kaur G., Singh N., Kumar R., Singh H., Sharma S., Bedi P.M.S.	Monocarbonyl curcumin based molecular hybrids as potent antibacterial agents	ACS Omega	2019	14	-
824	Majumdar A., Biswas A., Baishnab K.L., Sood S.K.	DNA based cloud storage security framework using fuzzy decision making technique	KSII Transactions on Internet and Information Systems	2019	2	-
825	Dar O.I., Sharma S., Singh K., Kaur A.	Teratogenicity and accumulation of triclosan in the early life stages of four food fish during the bioassay	Ecotoxicology and Environmental Safety	2019	2	-
826	Singh J., Verma V., Kumar R., Sharma S., Kumar R.	Corrigendum: Effect of structural and thermal disorder on the optical band gap energy of Cr <sub>2</sub> O <sub>3</sub> nanoparticles (Materials Research Express (2019) 6 (085039) DOI: 10.1088/2053-1591/ab195c)	Materials Research Express	2019		-
827	Kaur A., Singh B.	Edifying role of corporate reputation in new issue market: Indian evidence	Asia-Pacific Journal of Business Administration	2019		-
828	Singh G., Singh R.C.	Synthesis, Characterization and Gas Sensing Properties of Ga-Doped SnO <sub>2</sub> Nanostructures	Journal of Electronic Materials	2019	8	-
829	Arora A., Narang S.B.	Investigation of Magnetic and Microwave Absorption Properties of Ba(1-2x)LaxNaxFe10CoTiO19 Hexaferrites in 18.0–26.5 GHz Band	Journal of Superconductivity and Novel Magnetism	2019	3	-
830	Punia S., Sandhu K.S., Dhull S.B., Kaur M.	Dynamic, shear and pasting behaviour of native and octenyl succinic anhydride (OSA) modified wheat starch and their utilization in preparation of edible films	International Journal of Biological Macromolecules	2019	11	-
831	Devi P., Singh R., Sharma S., Sharma S., Mahajan A., Bedi R.K., Saini R.	Flexible and highly sensitive Cl <sub>2</sub> sensor based on solution processed phthalocyanine nanowires	AIP Conference Proceedings	2019		-



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832	Singh S.K.J., Singh R.C.	Sensitive and selective hydrogen gas sensor based on Sn doped NiO nanoparticles	AIP Conference Proceedings	2019	1	-
833	Kaur A., Khanna A.	Thermal, optical and Raman spectroscopy studies of lithium tellurite glasses containing molybdenum and tungsten ions	AIP Conference Proceedings	2019	1	-
834	Gupta N., Khanna A.	Study of anti-glass phases in heavy metal oxide tellurite systems	AIP Conference Proceedings	2019	3	-
835	Kaur P., Singh K.J., Kurudirek M., Thakur S.	Gamma-ray and neutron shielding behaviour of CaO-K <sub>2</sub> O-P <sub>2</sub> O <sub>5</sub> glass system modified with Bi <sub>2</sub> O <sub>3</sub>	AIP Conference Proceedings	2019	-	-
836	Sharma A.K., Sohal M.K., Singh R.C., Mahajan A.	Sensing performance of rGO/phthalocyanine based hybrid at room temperature	AIP Conference Proceedings	2019	1	-
837	Kaur B., Kaur M., Kaur N., Garg S., Bhatti R., Singh P.	Engineered Substrate for Cyclooxygenase-2: A Pentapeptide Isoconformational to Arachidonic Acid for Managing Inflammation	Journal of Medicinal Chemistry	2019	3	-
838	Prakash O., Mahajan A., Bedi R.K., Saxena V.	Growth of few layered molybdenum disulphide	AIP Conference Proceedings	2019		-
839	Kumar A., Kumar A., Dogra R., Sharma S., Kumar R.	Thermoluminescence characteristics of gamma induced LiF: Yb <sup>3+</sup> nanophosphor	AIP Conference Proceedings	2019	1	-
840	Singh K., Malviya B.K., Jaiswal P.K., Verma V.P., Chimni S.S., Sharma S.	Phenanthridine-Fused Tetracyclic Ring System: Metal-Free Diastereoselective Modular Construction of Highly Constrained Polyheterocycles via Post-Ugi Tandem Modifications	Organic Letters	2019	10	-
841	Khanna K., Handa N., Yadav P., Gautam V., Kumar V., Ohri P., Bhardwaj R.	Molecular approaches in enhancing antioxidant defense in plants	Reactive Oxygen, Nitrogen and Sulfur Species in Plants: Production, Metabolism, Signaling and Defense Mechanisms	2019	-	-
842	Khajuria A., Bali S., Sharma P., Kaur R., Jasrotia S., Saini P., Ohri P., Bhardwaj R.	S-nitrosoglutathione (GSNO) and plant stress responses	Reactive Oxygen, Nitrogen and Sulfur Species in Plants: Production, Metabolism, Signaling and Defense Mechanisms	2019	1	-
843	Kaur P., Handa N., Verma V., Bakshi P., Kalia R., Sareen S., Nagpal A., Vig A.P., Mir B.A., Bhardwaj R.	Cross talk among reactive oxygen, nitrogen and sulfur during abiotic stress in plants	Reactive Oxygen, Nitrogen and Sulfur Species in Plants: Production, Metabolism, Signaling and Defense Mechanisms	2019	2	-
844	Kaur H., Sood S.K.	Adaptive Neuro Fuzzy Inference System (ANFIS) based wildfire risk assessment	Journal of Experimental and Theoretical Artificial Intelligence	2019	6	-



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845	Sharma G., Kalra S.	Advanced multi-factor user authentication scheme for E-governance applications in smart cities	International Journal of Computers and Applications	2019	5	-
846	Sangeeta, Narang T.D.	A study of farthest points and uniquely remotal sets	Journal of Interdisciplinary Mathematics	2019		-
847	Bhatia A., Makkar B.	Extent and drivers of CSR disclosure: evidence from Russia	Transnational Corporations Review	2019	1	-
848	Kaur A., Singh B., Kaur A., Singh N.	Chemical, thermal, rheological and FTIR studies of vegetable oils and their effect on eggless muffin characteristics	Journal of Food Processing and Preservation	2019	4	-
849	Bhinder S., Singh B., Kaur A., Singh N., Kaur M., Kumari S., Yadav M.P.	Effect of infrared roasting on antioxidant activity, phenolic composition and Maillard reaction products of Tartary buckwheat varieties	Food Chemistry	2019	23	-
850	Singh M., Malhotra J.	Enhanced performance of 40Gbit/s-80GHz OFDM based radio over FSO transmission link incorporating mode division multiplexing under strong atmospheric turbulence	Optoelectronics and Advanced Materials, Rapid Communications	2019	12	-
851	Rampal A., Singh M., Mahajan S., Bedi N.	Formulation and characterization of hpmc and hpmcas based solid dispersions of fenofibrate: A comparative study	International Journal of Applied Pharmaceutics	2019	1	-
852	Bhanwer A.J.S.	On Development of typological classification and its relationship to microdifferentiation in ethnic India By KC Malhotra and TS Vasulu	Journal of Biosciences	2019	-	-
853	Sharma G., Kalra S.	A Lightweight User Authentication Scheme for Cloud-IoT Based Healthcare Services	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2019	22	-
854	Kaur R., Rani A., Banipal P.K., Banipal T.S.	Study on interactions of vitamin B1 with sodium dodecyl sulfate for potential food applications: Conductometric, volumetric, calorimetric and spectroscopic approach	Journal of Molecular Liquids	2019	2	-
855	Singh L., Kaur A., Bhatti M.S., Bhatti R.	Possible Molecular Mediators Involved and Mechanistic Insight into Fibromyalgia and Associated Co-morbidities	Neurochemical Research	2019	9	-
856	Sharma S., Nagpal A.K., Kaur I.	Appraisal of heavy metal contents in groundwater and associated health hazards posed to human population of Ropar wetland, Punjab, India and its environs	Chemosphere	2019	24	-
857	Sood S.K., Singh K.D.	SNA Based Resource Optimization in Optical Network using Fog and Cloud Computing	Optical Switching and Networking	2019	16	-
858	Gupta N.M., Mehra M.L., Malhotra P.	Factors affecting mortality prototype in murreh buffaloes: A review	Buffalo Bulletin	2019		-
859	Atwal H., Sandhu V.	Development and description of conceptual model related to employee engagement in organizations	International Journal of Engineering and Advanced Technology	2019	1	-



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860	Bohmrah M.K., Kaur H.	Autonomic fog computing: Towards sustainable and reliable integration of cloud & internet of things	International Journal of Innovative Technology and Exploring Engineering	2019	-	-
861	Malik S.S., Mazumdar I.	Role of F-spin multiplets in identical band phenomena in normal deformed nuclei	Nuclear Physics A	2019	2	-
862	Rani A., Legac J., Rosenthal P.J., Kumar V.	Substituted 1,3-dioxoisindoline-4-aminoquinolines coupled via amide linkers: Synthesis, antiplasmodial and cytotoxic evaluation	Bioorganic Chemistry	2019	6	-
863	Singh P., Dureja J.S., Singh H., Bhatti M.S.	Nanofluid-based minimum quantity lubrication (MQL) face milling of inconel 625	International Journal of Automotive and Mechanical Engineering	2019	1	-
864	Bansal S., Gill T.S., Aggarwal M.	Oblique modulation of electron acoustic waves in nonextensive plasma	Physics of Plasmas	2019	4	-
865	Singh M., Saini N.S., Kourakis I.	Kinetic Alfvén solitary waves in a plasma with two-temperature superthermal electron populations: The case of Saturn's magnetosphere	Monthly Notices of the Royal Astronomical Society	2019	1	-
866	Kamboj R., Sandhu R.S., Kaler R.S.S., Bera M.B., Nanda V.	Optimization of process parameters on hydroxymethylfurfural content, diastase and invertase activity of coriander honey	Journal of Food Science and Technology	2019	2	-
867	Sarangal H., Singh A., Malhotra J.	Construction and analysis of a novel sac-ocdma system with edw coding using direct detection technique	Journal of Optical Communications	2019	5	-
868	Shalini, Johansen M.D., Kremer L., Kumar V.	Design, synthesis, anti-mycobacterial and cytotoxic evaluation of C-4 functionalized 1,8-naphthalimide-heterocyclic hydrazide conjugates	Chemical Biology and Drug Design	2019	3	-
869	Sharma A., Shahzad B., Kumar V., Kohli S.K., Sidhu G.P.S., Bali A.S., Handa N., Kapoor D., Bhardwaj R., Zheng B.	Phytohormones regulate accumulation of osmolytes under abiotic stress	Biomolecules	2019	126	-
870	Hans M., Kumar S.	Biohythane production in two-stage anaerobic digestion system	International Journal of Hydrogen Energy	2019	30	-
871	Singla P., Singh O., Sharma S., Betlem K., Aswal V.K., Peeters M., Mahajan R.K.	Temperature-Dependent Solubilization of the Hydrophobic Antiepileptic Drug Lamotrigine in Different Pluronic Micelles - A Spectroscopic, Heat Transfer Method, Small-Angle Neutron Scattering, Dynamic Light Scattering, and in Vitro Release Study	ACS Omega	2019	11	-



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872	Mandial D., Khullar P., Gupta V., Kumar H., Singh N., Ahluwalia G.K., Bakshi M.S.	Role of Gluten in Surface Chemistry: Nanometallic Bioconjugation of Hard, Medium, and Soft Wheat Protein	Journal of Agricultural and Food Chemistry	2019		-
873	Sandhu A., Singh B.	Board composition and corporate reporting on internet: Indian evidence	Journal of Financial Reporting and Accounting	2019	2	-
874	Singh G., Singh A., Singh P., Bhatti R.	Bergapten Ameliorates Vincristine-Induced Peripheral Neuropathy by Inhibition of Inflammatory Cytokines and NFκB Signaling	ACS Chemical Neuroscience	2019	7	-
875	Singh I., Kaur B., Khun Khun K.	Simulating longitudinal vibrations of coupled oscillator using the fourth-order Runge-Kutta method by programming spreadsheet	European Journal of Physics	2019	1	-
876	Singh P., Kahlon K.S., Kaur H., Sawhney R.S.	Do people virtually support their favorite cricket team? Insights from 2018 Asia Cup	ACM International Conference Proceeding Series	2019		-
877	Bajaj R., Singh N., Kaur A.	Properties of octenyl succinic anhydride (OSA) modified starches and their application in low fat mayonnaise	International Journal of Biological Macromolecules	2019	18	-
878	Chopra G., Chopra N., Kaur D.	Elucidating the intermolecular hydrogen bonding interaction of proline with amides—quantum chemical calculations	Structural Chemistry	2019	2	-
879	Siroha A.K., Sandhu K.S., Kaur M., Kaur V.	Physicochemical, rheological, morphological and in vitro digestibility properties of pearl millet starch modified at varying levels of acetylation	International Journal of Biological Macromolecules	2019	8	-
880	Singh G., Sandhu H.S., Sharma R., Srinivas Y., Matharoo K., Singh M., Bhanwer A.J.S.	Genetic variation and population structure of five ethnic groups from Punjab, North-West India: Analysis of MHC class I polymorphic Alu insertions (POALINs)	Gene	2019	1	-
881	Bali S., Jamwal V.L., Kaur P., Kohli S.K., Ohri P., Gandhi S.G., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ahmad P.	Role of P-type ATPase metal transporters and plant immunity induced by jasmonic acid against Lead (Pb) toxicity in tomato	Ecotoxicology and Environmental Safety	2019	18	-
882	Kaur V., Chattopadhyay D., Kaur S., Kaur M.	Fibrous raw material of bamboo origin with improved fibrillation and spinnability	Journal of the Textile Institute	2019		-
883	Kaur R., Kaur A., Kaur K.	Ultra-morphology of the scale as an indicator of the stress of Acid Black-1 (AB-1, CI: 20470) and zinc (Zn)	Environmental Science and Pollution Research	2019		-
884	Singh S., Singh J., Kaur A., Kaur J., Vig A.P., Bhat S.A.	Nutrient recovery from pigeon dropping by using exotic earthworm <i>Eisenia fetida</i>	Sustainable Chemistry and Pharmacy	2019	4	-
885	Aulakh G.S., Singh G., Singh A.	Studies on intercropping of maize ( <i>zea mays</i> l.) with pea ( <i>pisum sativum</i> l.) genotype	Indian Journal of Ecology	2019		-



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886	Preet K., Ahluwalia A.K.	Factors of stress amongst students of professional institutes	Prabandhan: Indian Journal of Management	2019		-
887	Kaur J., Singh M.L.	User assisted cooperative relaying in beamspace massive MIMO NOMA based systems for millimeter wave communications	China Communications	2019	6	-
888	Anand R., Singh B.	Effect of Composition of Board and Promoter Group Retained Ownership on Underpricing of Indian IPO firms: An Empirical Study	Indian Journal of Corporate Governance	2019		-
889	Gandhi G., Sharma R., Kaur G.	Traditional Indian sports – A case-control study on Kho Kho players investigating genomic instability and oxidative stress as a function of metabolic genotypes	Heliyon	2019	-	-
890	Pubby K., Bindra Narang S.	Influence of grain size and porosity on X-band properties of Mn-Zr substituted Ni-Co ferrites	Materials Letters	2019	19	-
891	Angurala M., Bala M., Bamber S.S.	Re-powering technique to compare its suitability with on-demand distance vector routing protocols	International Journal of Innovative Technology and Exploring Engineering	2019	-	-
892	Angurala M., Bala M., Bamber S.S.	Use of energy replenishment model to find optimum radio propagation model in wireless sensor networks	International Journal of Innovative Technology and Exploring Engineering	2019	-	-
893	Singh B., Singh G., Sidhu B.S., Bhatia N.	In-vitro assessment of HA-Nb coating on Mg alloy ZK60 for biomedical applications	Materials Chemistry and Physics	2019	16	-
894	Bhat S.A., Cui G., Li F., Vig A.P.	Biomonitoring of genotoxicity of industrial wastes using plant bioassays	Bioresource Technology Reports	2019	10	-
895	Parihar R.D., Singh D., Verma V., Sohal S.K., Kesavan A.K., Ohri P.	Biocontrol potential of <i>Distolabrellus veechi</i> isolate KPI (Nemata: Rhabditida) against cotton cutworm, <i>Spodoptera litura</i> (Lepidoptera: Noctuidae)	Indian Journal of Nematology	2019	1	-
896	Kaur S., Singh S., Singh L.	Opto-electric and physio-chemical changes in oxygen ion irradiated natural Vermiculite mineral	Applied Radiation and Isotopes	2019		-
897	Gupta N., Hirdesh, Kaur R., Khanna A., Singh S., Gupta B.K.	Spatially resolved X-ray fluorescence, Raman and photoluminescence spectroscopy of Eu <sup>3+</sup> /Er <sup>3+</sup> doped tellurite glasses and anti-glasses	Journal of Non-Crystalline Solids	2019	9	-
898	Punia S., Siroha A.K., Sandhu K.S., Kaur M.	Rheological behavior of wheat starch and barley resistant starch (type IV) blends and their starch noodles making potential	International Journal of Biological Macromolecules	2019	13	-



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899	Kaur J., Balabanski D.L., Georgiev G., Constantin P.	Prospective of nuclear magnetic moment measurements by photofission reactions at ELI-NP	Hyperfine Interactions	2019		-
900	Mohammed J., Tchouank Tekou Carol T., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Electromagnetic interference (EMI)shielding, microwave absorption, and optical sensing properties of BaM/CCTO composites in K u -band	Results in Physics	2019	18	-
901	Bhagat K., Bhagat J., Gupta M.K., Singh J.V., Gulati H.K., Singh A., Kaur K., Kaur G., Sharma S., Rana A., Singh H., Sharma S., Bedi P.M.S.	Design, synthesis, antimicrobial evaluation, and molecular modeling studies of novel indolinedione-coumarin molecular hybrids	ACS Omega	2019	26	-
902	Kaur A., Sood S.K.	Analytical mapping of research on disaster management, types and role of ICT during 2011–2018	Environmental Hazards	2019	5	-
903	Thakur S., Thakur V., Kaur A., Singh L.	Structural, optical and thermal properties of nickel doped bismuth borate glasses	Journal of Non-Crystalline Solids	2019	33	-
904	Singh J., Verma V., Kumar R., Sharma S., Kumar R.	Effect of structural and thermal disorder on the optical band gap energy of Cr2O3 nanoparticles	Materials Research Express	2019	2	-
905	Basotra N., Dhiman S.S., Agrawal D., Sani R.K., Tsang A., Chadha B.S.	Characterization of a novel Lytic Polysaccharide Monoxygenase from Malbranchea cinnamomea exhibiting dual catalytic behavior	Carbohydrate Research	2019	13	-
906	Arora S., Kaur H.	Exploring the bank selection criteria in India: scale development and validation	International Journal of Bank Marketing	2019	1	-
907	Kalia N., Singh J., Sharma S., Kaur M.	Impact of SNPs interplay across the locus of MBL2, between MBL and Dectin-1 gene, on women's risk of developing recurrent vulvovaginal infections	Cell and Bioscience	2019	6	-
908	Thakur K., Kaur T., Kaur M., Hora R., Singh J.	Exploration of carbohydrate binding behavior and anti-proliferative activities of Arisaema tortuosum lectin	BMC Molecular Biology	2019	1	-
909	Singh T., Dureja J.S., Dogra M., Bhatti M.S.	Multi-response optimization in environment friendly turning of AISI 304 austenitic stainless steel	Multidiscipline Modeling in Materials and Structures	2019	4	-
910	Shiekh B.A., Kaur D., Godara S.K.	Unprecedented synthesis of symmetrical azines from alcohols and hydrazine hydrate using nickel based NNN-pincer catalyst: An experimental and computational study	Catalysis Communications	2019	7	-
911	Singh R., Bahel S., Narang S.B.	Dielectric and microwave reflection properties of M-phase LNT (Li-Nb-Ti-O) solid solutions in X-band frequency range	Journal of Alloys and Compounds	2019	5	-



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912	Ahmad Mir N., Ashutosh A., Ahmad Shergojry S., Ahmed Wani S., Ahmad Sheikh F.	Effect of induced transportation stress in goats supplemented with vitamin C and jaggery during hot dry season	Biological Rhythm Research	2019	1	-
913	Chopra N., Chopra G., Kaur D.	Exploring the Role of Consecutive Addition of Nitrogen Atoms on Stability and Reactivity of Hydrogen-Bonded Azine-Water Complexes	ACS Omega	2019	2	-
914	Bhatia S., Khanna A., Jain R.K., Hirdesh	Structure-property correlations in molybdenum trioxide thin films and nanoparticles	Materials Research Express	2019	2	-
915	Etherington M.K., Kukhta N.A., Higginbotham H.F., Danos A., Bismillah A.N., Graves D.R., McGonigal P.R., Haase N., Morherr A., Batsanov A.S., Pflumm C., Bhalla V., Bryce M.R., Monkman A.P.	Persistent Dimer Emission in Thermally Activated Delayed Fluorescence Materials	Journal of Physical Chemistry C	2019	33	-
916	Suri K., Singh B., Kaur A., Singh N.	Impact of roasting and extraction methods on chemical properties, oxidative stability and Maillard reaction products of peanut oils	Journal of Food Science and Technology	2019	11	-
917	Chaudhary P., Kumari R., Singh B., Hallan V., Nagpal A.K.	First report of potato virus M, potato virus Y and cucumber mosaic virus infection in Solanum nigrum in India	Journal of Plant Pathology	2019	2	-
918	Kaur L., Kumar A.	Performance analysis and comparison of parallel computing frameworks: Sips and openmp	2019 International Conference on Intelligent Computing and Control Systems, ICCS 2019	2019	-	-
919	Singh D., Thakur S., Thayil S.M., Kesavan A.K.	Characterization of a cold-active, detergent-stable metalloproteinase purified from Bacillus sp. S1DI 10 using Response Surface Methodology	PLoS ONE	2019	3	-
920	Katyal M., Kaur A., Singh N.	Evaluation of pasting and dough rheological properties of composite flours made from flour varied in gluten strength	Journal of Food Science and Technology	2019	1	-
921	Sharma P., Gupta N., Kaur S., Kaur S., Ohri P., Parihar R.D., Bhalla V., Kumar M.	Imaging of lysosomal activity using naphthalimide-benzimidazole based fluorescent probe in living cells	Sensors and Actuators, B: Chemical	2019	6	-
922	Kaur T., Thakur K., Singh J., Arora S., Kaur M.	Genotypic-Phenotypic Screening of Galectin-3 in Relation to Risk Towards Rheumatoid Arthritis in North Indian Population	Archives of Medical Research	2019	1	-



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923	Mahadevan S., Narang S.B., Sharma P.	Effect of three-step calcination on structural, magnetic and microwave properties of BaFe 11.5 Ti 0.5 O 19 hexaferrite	Ceramics International	2019	7	-
924	Kaur I., Gupta A., Singh B.P., Sharma S., Kumar A.	Assessment of radon and potentially toxic metals in agricultural soils of Punjab, India	Microchemical Journal	2019	11	-
925	Kaur P., Verma G., Sekhon S.S.	Biomass derived hierarchical porous carbon materials as oxygen reduction reaction electrocatalysts in fuel cells	Progress in Materials Science	2019	41	-
926	Punia S., Siroha A.K., Sandhu K.S., Kaur M.	Rheological and pasting behavior of OSA modified mungbean starches and its utilization in cake formulation as fat replacer	International Journal of Biological Macromolecules	2019	13	-
927	Pandey A., Saini B.S., Singh B., Sood N.	Complexity sorting and coupled chaotic map based on 2D ECG data compression-then-encryption and its OFDM transmission with impair sample correction	Multimedia Tools and Applications	2019	6	-
928	Handa N., Kohli S.K., Sharma A., Thukral A.K., Bhardwaj R., Abd_Allah E.F., Alqarawi A.A., Ahmad P.	Selenium modulates dynamics of antioxidative defence expression, photosynthetic attributes and secondary metabolites to mitigate chromium toxicity in Brassica juncea L. plants	Environmental and Experimental Botany	2019	39	-
929	Singh K., Malviya B.K., Verma V.P., Badsara S.S., Bhardwaj V.K., Sharma S.	Cationic Pd(II) catalyzed regioselective intramolecular hydroarylation for the efficient synthesis of 4-aryl-2-quinolones	Tetrahedron	2019	9	-
930	Khanna A., Kaur A., Fábían M., Krishna P.S.R., Shinde A.B.	Structure of xMoO <sub>3</sub> -(100-x)TeO <sub>2</sub> glasses by neutron diffraction and Reverse Monte Carlo modeling	Materials Research Express	2019	3	-
931	Singh J., Bahel S.	Structural and dielectric properties of (Ba <sub>x</sub> Mg <sub>1-x</sub> )(Ti <sub>0.95</sub> Sn <sub>0.05</sub> )O <sub>3</sub> (x = 0.025, 0.05, 0.075 and 0.1) solid solutions	Journal of Materials Science: Materials in Electronics	2019	4	-
932	Singh P., Dureja J.S., Singh H., Bhatti M.S.	Performance comparison of coated carbide tool under different cooling/lubrication environments during face milling of Inconel-625 and Stainless Steel 304	World Journal of Engineering	2019	1	-
933	Deol S.S.	Sikh ethnonationalism and militancy: manifestation and prognosis	Asian Ethnicity	2019	2	-
934	Kumar S., Pal J., Kaur S., Malhi P.S., Singh M., Babu P.D., Singh A.	The structural and magnetic properties, non-Debye relaxation and hopping mechanism in Pb x Nd 1- x FeO 3 (where x = 0.1, 0.2 and 0.3) solid solutions	Journal of Asian Ceramic Societies	2019	12	-
935	Singh B., Singh J.P., Kaur A., Singh N.	Antimicrobial potential of pomegranate peel: a review	International Journal of Food Science and Technology	2019	19	-



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936	Singh J.P., Kaur A., Singh B., Singh N., Singh B.	Physicochemical evaluation of corn extrudates containing varying buckwheat flour levels prepared at various extrusion temperatures	Journal of Food Science and Technology	2019	8	-
937	Kauts D.S., Kapatia P.	Innovative behavioral techniques to reduce stress among viii grade learners	International Journal of Recent Technology and Engineering	2019	-	-
938	Singh M., Malhotra J.	Performance comparison of high-speed long-reach mode division multiplexing-based radio over free space optics transmission system using different modulation formats under the effect of atmospheric turbulence	Optical Engineering	2019	17	-
939	Singh J., Sharma S., Sharma S., Singh R.C.	Effect of tungsten doping on structural and optical properties of rutile TiO <sub>2</sub> and band gap narrowing	Optik	2019	20	-
940	Kaur H., Gill B.S.	Effect of high-intensity ultrasound treatment on nutritional, rheological and structural properties of starches obtained from different cereals	International Journal of Biological Macromolecules	2019	13	-
941	Sood S.K., Mahajan I.	IoT-fog-based healthcare framework to identify and control hypertension attack	IEEE Internet of Things Journal	2019	20	-
942	Mintu, Singh G., Malhi S.S., Mahajan M., Batra S., Bath R.S.	Anatomization of Detection and Performance Measures Techniques for Flooding Attacks using Routing Protocols in MANETs	2019 International Conference on Automation, Computational and Technology Management, ICACTM 2019	2019	1	-
943	Sharma M., Singh G., Singh R.	A review of different cost-based distributed query optimizers	Progress in Artificial Intelligence	2019	9	-
944	Singh S.K., Kaur R., Kumar A., Kaur R.	Myxococcus xanthus truncated globin HbO: in silico analysis and functional characterization	Molecular Biology Reports	2019		-
945	Lone M.Y., Kumar A., Husain S., Singh R.C., Zulfeqar M., Husain M.	Fabrication of sensitive SWCNT sensor for trace level detection of reducing and oxidizing gases (NH <sub>3</sub> and NO <sub>2</sub> ) at room temperature	Physica E: Low-Dimensional Systems and Nanostructures	2019	4	-
946	Kumar V., Behl A., Kapoor P., Nayak B., Singh G., Singh A.P., Mishra S., Kang T.S., Mishra P.C., Hora R.	Inner membrane complex II protein of Plasmodium falciparum links membrane lipids with cytoskeletal element 'actin' and its associated motor 'myosin'	International Journal of Biological Macromolecules	2019	2	-
947	Gupta A., Kumar J., Narang J.K., Verma S., Singh H., Haque A.	Development and validation of a stability indicating UV-spectrophotometric assay method for the determination of naratriptan hydrochloride	Pertanika Journal of Science and Technology	2019	1	-
948	Kaur S., Bagga P., Hans R., Kaur H.	Quality of Service (QoS) Aware Workflow Scheduling (WFS) in Cloud Computing: A Systematic Review	Arabian Journal for Science and Engineering	2019	11	-



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949	Pandey A., Singh B., Saini B.S., Sood N.	A novel fused coupled chaotic map based confidential data embedding-then-encryption of electrocardiogram signal	Biocybernetics and Biomedical Engineering	2019	6	-
950	Chadha B.S., Kaur B., Basotra N., Tsang A., Pandey A.	Thermostable xylanases from thermophilic fungi and bacteria: Current perspective	Bioresource Technology	2019	33	-
951	Shevkani K., Singh N., Rattan B., Singh J.P., Kaur A., Singh B.	Effect of chickpea and spinach on extrusion behavior of corn grit	Journal of Food Science and Technology	2019	5	-
952	Mohammed J., Trudel T.T.C., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Design of nano-sized Pr <sup>3+</sup> -Co <sup>2+</sup> -substituted M-type strontium hexaferrites for optical sensing and electromagnetic interference (EMI) shielding in Ku band	Applied Physics A: Materials Science and Processing	2019	13	-
953	Kashyap R., Aggarwal M., Gill T.S., Arora N.S., Kumar H., Moudhgill D.	Self-focusing of q-Gaussian laser beam in relativistic plasma under the effect of light absorption	Optik	2019	1	-
954	Kumari P., Lal M., Kumar S., Rai R., Singh A., Karpinsky D.V., Bdkin I.	Comprehensive investigation of structural, dielectric and local piezoelectric properties of KNN ceramics	Journal of Advanced Dielectrics	2019	1	-
955	Padam R., Malhotra J.	Secure techniques for the UAV networks: A review	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	-	-
956	Bhatia A., Singh B., Arora R., Arora S.	In vitro evaluation of the $\alpha$ -glucosidase inhibitory potential of methanolic extracts of traditionally used antidiabetic plants	BMC Complementary and Alternative Medicine	2019	15	-
957	Singh A., Sharma S., Singh G., Singh R.	Machine learning configurations for enhanced human protein function prediction accuracy	Smart Computational Strategies: Theoretical and Practical Aspects	2019		-
958	Kaur M., Singh G., Kaur A., Sharma P.K., Kang T.S.	Thermally Stable Ionic Liquid-Based Microemulsions for High-Temperature Stabilization of Lysozyme at Nanointerfaces	Langmuir	2019	7	-
959	Kaur H., Kaur M., Walia P.K., Kumar M., Bhalla V.	Encapsulating Au-Fe <sub>3</sub> O <sub>4</sub> Nanodots into AIE-active Supramolecular Assemblies: Ambient Visible-light Harvesting "Dip-Strip" Photocatalyst for C-C/N Bond Formation Reactions	Chemistry - An Asian Journal	2019	7	-
960	Kaur T., Bhardwaj R., Arora S.	Evaluating groundwater for its probable mutagenicity and genotoxicity using in vitro bioanalytical tools	Exposure and Health	2019	1	-



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961	Soni N., Saini I., Singh B.	A morphologically robust chaotic map based approach to embed patient's confidential data securely in non-QRS regions of ECG signal	Australasian Physical and Engineering Sciences in Medicine	2019	3	-
962	Singh S., Kaur M., Sogi D.S., Purewal S.S.	A comparative study of phytochemicals, antioxidant potential and in-vitro DNA damage protection activity of different oat (Avena sativa) cultivars from India	Journal of Food Measurement and Characterization	2019	6	-
963	Kaur P., Purewal S.S., Sandhu K.S., Kaur M., Salar R.K.	Millets: a cereal grain with potent antioxidants and health benefits	Journal of Food Measurement and Characterization	2019	13	-
964	Singh A.P., Singh N., Pathak D., Bedi P.M.S.	Estradiol attenuates ischemia reperfusion-induced acute kidney injury through PPAR- $\gamma$ stimulated eNOS activation in rats	Molecular and Cellular Biochemistry	2019	12	-
965	Kumar K., Singh H., Vanita V., Singh R., Joshi K.B., Bhargava G., Kumar S., Singh P.	Coronene diimide-based self-assembled (fibre-to-disc) fluorescent aggregates for visualization of latent fingerprints	Sensors and Actuators, B: Chemical	2019	11	-
966	Kaur P., Bali S., Sharma A., Kohli S.K., Vig A.P., Bhardwaj R., Thukral A.K., Abd-Allah E.F., Wijaya L., Alyemeni M.N., Ahmad P.	Cd induced generation of free radical species in Brassica juncea is regulated by supplementation of earthworms in the drilosphere	Science of the Total Environment	2019	16	-
967	Kaur K.	Efficient and Fast Copy Move Image Forgery Detection Technique	Proceedings of the 2nd International Conference on Intelligent Computing and Control Systems, ICICCS 2018	2019	-	-
968	Singh G., Singh G., Kancharla S., Kang T.S.	Complexation Behavior of $\beta$ -Lactoglobulin with Surface Active Ionic Liquids in Aqueous Solutions: An Experimental and Computational Approach	Journal of Physical Chemistry B	2019	7	-
969	Rani A., Anand A., Kumar K., Kumar V.	Recent developments in biological aspects of chalcones: the odyssey continues	Expert Opinion on Drug Discovery	2019	24	-
970	Bhat M.A., Gandhi G.	Elevated oxidative DNA damage in patients with coronary artery disease and its association with oxidative stress biomarkers	Acta Cardiologica	2019	4	-
971	Ghumman A., Singh N., Kaur A., Rana J.C.	Diversity in protein secondary structure, molecular weight, mineral and amino acid composition of lentil and horse gram germplasm	Journal of Food Science and Technology	2019	3	-



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972	Rajput S., Arora S., Kaur R.	Assessment of spatio-temporal variation in pond water quality: A case study	Indian Journal of Environmental Protection	2019		-
973	Vasudev A., Sohal S.K.	Negative effect of non-host protease inhibitors partially purified from <i>Cassia glauca</i> seeds on developmental physiology of <i>Spodoptera litura</i>	International Journal of Tropical Insect Science	2019	1	-
974	Kaur A., Singh R.C.	Temperature sensor based on exfoliated graphene sheets produced by microwave assisted freezing induced volumetric expansion of carbonated water	Journal of Materials Science: Materials in Electronics	2019	4	-
975	Kaur J., Singh H.	Synthesis and fabrication of zinc oxide nanostrands based piezoelectric nanogenerator	Journal of Materials Science: Materials in Electronics	2019	4	-
976	Dogra M., Singh K.J., Kaur K.	Investigation of $\gamma$ ray shielding, structural and dissolution rate studies of alkali based bismuth borate glass systems with MoO <sub>3</sub> added	Radiochimica Acta	2019	1	-
977	Kaur P., Singh G., Kaur P.	An intelligent validation system for diagnostic and prognosis of ultrasound fetal growth analysis using Neuro-Fuzzy based on genetic algorithm	Egyptian Informatics Journal	2019	5	-
978	Misra A.P., Saini N.S.	Dust-acoustic solitary waves and shocks in nonthermal plasmas	2019 URSI Asia-Pacific Radio Science Conference, AP-RASC 2019	2019	-	-
979	Satija M.P., Martínez-ávila D.	Plagiarism: An essay in terminology	DESIDOC Journal of Library and Information Technology	2019	4	-
980	Gupta V., Singh I., Kumar P., Rasool S., Verma V.	A hydrolase with esterase activity expressed from a fosmid gene bank prepared from DNA of a North West Himalayan glacier frozen soil sample	3 Biotech	2019	1	-
981	Kaur M., Chadha P., Kaur S., Kaur A., Kaur R., Yadav A.K., Kaur R.	Evaluation of genotoxic and cytotoxic effects of ethyl acetate extract of <i>Aspergillus flavus</i> on <i>Spodoptera litura</i>	Journal of Applied Microbiology	2019	6	-
982	Singh G., Bhanwer A.J.S.	Distribution of angiotensin converting enzyme gene (insertion/deletion) polymorphism in Indian populations	Gene Reports	2019	1	-
983	Singh G., Virpal, Singh R.C.	Highly sensitive gas sensor based on Er-doped SnO <sub>2</sub> nanostructures and its temperature dependent selectivity towards hydrogen and ethanol	Sensors and Actuators, B: Chemical	2019	46	-
984	Narang S.B., Arora A.	Broad-band microwave absorption and magnetic properties of M-type Ba(1-2x)LaxNaxFe <sub>10</sub> Co <sub>0.5</sub> TiMn <sub>0.5</sub> O <sub>19</sub> hexagonal ferrite in 18.0–26.5 GHz frequency range	Journal of Magnetism and Magnetic Materials	2019	16	-



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985	Sharma T., Sharma A., Kaur I., Mahajan R.K., Litoria P.K., Sahoo S.K., Bajwa B.S.	Uranium distribution in groundwater and assessment of age dependent radiation dose in Amritsar, Gurdaspur and Pathankot districts of Punjab, India	Chemosphere	2019	19	-
986	Khanna K., Jamwal V.L., Kohli S.K., Gandhi S.G., Ohri P., Bhardwaj R., Wijaya L., Alyemeni M.N., Ahmad P.	Role of plant growth promoting Bacteria (PGPRs) as biocontrol agents of Meloidogyne incognita through improved plant defense of Lycopersicon esculentum	Plant and Soil	2019	14	-
987	Mohammed J., Carol T. T.T., Hafeez H.Y., Adamu B.I., Wudil Y.S., Takai Z.I., Godara S.K., Srivastava A.K.	Tuning the dielectric and optical properties of Pr-Co-substituted calcium copper titanate for electronics applications	Journal of Physics and Chemistry of Solids	2019	24	-
988	Mohammed J., Tekou Carol T., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Lightweight SrM/CCTO/rGO nanocomposites for optoelectronics and K u band microwave absorption	Journal of Materials Science: Materials in Electronics	2019	19	-
989	Sran B.S., Sharma S., Hundal G.	Self-assembly and supramolecular isomerism in copper (II) coordination compounds of pyridine-4-carboxamide based ligand	Inorganica Chimica Acta	2019	3	-
990	Bansal D., Kumar Y., Rustam, Kumar S., Mandal K., Hundal G., Mukhopadhyay P.	Core-insertion of palladium in naphthalenediimides: Opto-electronic properties, structural insights and coupling studies	Inorganica Chimica Acta	2019	2	-
991	Sharma M., Manhas R.K.	Purification and characterization of actinomycins from Streptomyces strain M7 active against methicillin resistant Staphylococcus aureus and vancomycin resistant Enterococcus	BMC Microbiology	2019	9	-
992	Katyal M., Singh N., Chopra N., Kaur A.	Hard, medium-hard and extraordinarily soft wheat varieties: Comparison and relationship between various starch properties	International Journal of Biological Macromolecules	2019	8	-
993	Arora D.S., Kaur N.	Antimicrobial Potential of Fungal Endophytes from Moringa oleifera	Applied Biochemistry and Biotechnology	2019	5	-
994	Kaur I., Sharma V., Mobin S.M., Kaur P., Singh K.	Excitation wavelength based reversible multicolour photoluminescence by a single chromophore upon aggregation: Detection of picric acid-application in bioimaging	Sensors and Actuators, B: Chemical	2019	13	-
995	Nisar K.S., Sarangal H., Thapar S.S.	Performance evaluation of newly constructed NZCC for SAC-OCDMA using direct detection technique	Photonic Network Communications	2019	8	-



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996	Kaur R., Singh J., Kapoor R., Kaur M.	Association of SELP Polymorphisms with Soluble P-Selectin Levels and Vascular Risk in Patients with Type 2 Diabetes Mellitus: A Case-Control Study	Biochemical Genetics	2019	4	-
997	Moudgil L., Jaiswal J., Mittal A., Saini G.S.S., Singh G., Kaura A.	Understanding the mechanism of adsorption of CTAB and polylysine on silver nanoparticles and detection of Hg 2+ : Experimental and DFT study	Journal of Molecular Liquids	2019	9	-
998	Chandra P., Arora D.S., Pal M., Sharma R.K.	Antioxidant Potential and Extracellular Auxin Production by White Rot Fungi	Applied Biochemistry and Biotechnology	2019	6	-
999	Jaiswal N., Agarwal N., Kaur A., Tripathy S., Gahlay G.K., Arora A., Mitthu V.S., Poluri K.M., Kumar D.	Molecular interaction between human SUMO-I and histone like DNA binding protein of Helicobacter pylori (Hup) investigated by NMR and other biophysical tools	International Journal of Biological Macromolecules	2019	6	-
1000	Kapoor S., Brazete D., Pereira I.C., Bhatia G., Kaur M., Santos L.F., Banerjee D., Goel A., Ferreira J.M.F.	Impact of transition metal ions on the structure and bioactivity of alkali-free bioactive glasses	Journal of Non-Crystalline Solids	2019	9	-
1001	Aggarwal N., Sharma M., Banipal T.S., Banipal P.K.	Influence of Phosphate-Based Salts on Enthalpy of Dilution and Isentropic Compressibility Properties of Saccharides and Their Derivatives in Aqueous Solutions	Journal of Chemical and Engineering Data	2019	5	-
1002	Saini S., Katnoria J.K., Kaur I.	A comparative study for removal of cadmium(II) ions using unmodified and NTA-modified Dendrocalamus strictus charcoal powder	Journal of Environmental Health Science and Engineering	2019	5	-
1003	Katyal M., Singh N., Singh H.	Effects of incorporation of groundnut oil and hydrogenated fat on pasting and dough rheological properties of flours from wheat varieties	Journal of Food Science and Technology	2019	3	-
1004	Bajaj R., Singh N., Kaur A.	Effect of native and gelatinized starches from various sources on sponge cake making characteristics of wheat flour	Journal of Food Science and Technology	2019	6	-
1005	Kumar V., Sharma A., Bhardwaj R., Thukral A.K.	Elemental Composition of Plants and Multivariate Analysis	National Academy Science Letters	2019	4	-
1006	Kumari A., Kaur R., Kaur R.	A review on fate and remediation techniques of oil spills	International Journal of Research in Pharmaceutical Sciences	2019	4	-
1007	Dhir K., Chhabra A.	Automated employee evaluation using fuzzy and neural network synergism through IoT assistance	Personal and Ubiquitous Computing	2019	6	-
1008	Paul M.	Emotional intelligence: a analytical study of basketball players	International Journal of Current Research and Review	2019		-



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1009	Kaur S., Singh M., Priyanka, Singh H., Singh M.L.	Design and Performance Analysis of 2x2 electro-optic based MZI switch using Ti:LiNbO <sub>3</sub> as a waveguide at 1.46 $\mu$ m	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	2019		-
1010	Bhatia S., Malhotra J.	Forensic Based Cloud Computing Architecture-Exploration and Implementation	2019 Proceedings of the 3rd International Conference on Computing and Communications Technologies, ICCCT 2019	2019	2	-
1011	Kaur M., Singh S.	Influence of heat-moisture treatment (HMT) on physicochemical and functional properties of starches from different Indian oat ( <i>Avena sativa</i> L.) cultivars	International Journal of Biological Macromolecules	2019	17	-
1012	Kaur H., Singh P.	Rationally designed molecules for resurgence of cyanide mitigated cytochrome c oxidase activity	Bioorganic Chemistry	2019		-
1013	Singh Minhas A., Sharma N., Kankar P.K., Singh S.	A comparative study for the selection of an entropy technique to classify bearing faults	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	2019	2	-
1014	Aulakh J.K., Sharma S., Sood H., Arora D.S., Kaur M., Jasinski J.P., Lobana T.S.	Synthesis, antimicrobial activity and high cell viability of copper derivatives of 2-thiouracil, purine-6-thione and 2,4,6-trimercaptotriazine	Journal of Coordination Chemistry	2019	2	-
1015	Brar K.K., Agrawal D., Chadha B.S., Lee H.	Evaluating novel fungal secretomes for efficient saccharification and fermentation of composite sugars derived from hydrolysate and molasses into ethanol	Bioresource Technology	2019	14	-
1016	Bhatia S., Kaur N., Singh I.R., Vanita V.	A novel mutation in MERTK for rod-cone dystrophy in a North Indian family	Canadian Journal of Ophthalmology	2019	4	-
1017	Seth R., Bhandawat A., Parmar R., Singh P., Kumar S., Sharma R.K.	Global transcriptional insights of pollen-pistil interactions commencing self-incompatibility and fertilization in tea [ <i>Camellia sinensis</i> (L.) O. kuntze]	International Journal of Molecular Sciences	2019	7	-
1018	Tanveer M., Shahzad B., Sharma A., Khan E.A.	24-Epibrassinolide application in plants: An implication for improving drought stress tolerance in plants	Plant Physiology and Biochemistry	2019	35	-
1019	Kaur A., Hirdesh, Khanna A., Fábíán M., Krishna P.S.R., Shinde A.B.	Structure of lead tellurite glasses and its relationship with stress-optic properties	Materials Research Bulletin	2019	10	-



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1020	Khanna K., Jamwal V.L., Kohli S.K., Gandhi S.G., Ohri P., Bhardwaj R., Abd_Allah E.F., Hashem A., Ahmad P.	Plant growth promoting rhizobacteria induced Cd tolerance in <i>Lycopersicon esculentum</i> through altered antioxidative defense expression	Chemosphere	2019	25	-
1021	Kumar V., Sharma A., Kaur P., Singh Sidhu G.P., Bali A.S., Bhardwaj R., Thukral A.K., Cerda A.	Pollution assessment of heavy metals in soils of India and ecological risk assessment: A state-of-the-art	Chemosphere	2019	100	-
1022	Sekhon J.S., Sharma S.	Involuntary migration in the border belt of Indian Punjab	Deterritorialised Identity and Transborder Movement in South Asia	2019		-
1023	Makkar C., Singh J., Parkash C.	Modulatory role of vermicompost and vermiwash on growth, yield and nutritional profiling of <i>Linum usitatissimum</i> L. (Linseed): a field study	Environmental Science and Pollution Research	2019	3	-
1024	Datta R., Kaur A., Saraf I., Singh I.P., Kaur S.	Effect of crude extracts and purified compounds of <i>Alpinia galanga</i> on nutritional physiology of a polyphagous lepidopteran pest, <i>Spodoptera litura</i> (Fabricius)	Ecotoxicology and Environmental Safety	2019	15	-
1025	Kaur H., Kaur K.	Connecting the dots between brand logo and brand image	Asia-Pacific Journal of Business Administration	2019	3	-
1026	Arora M., Kaur A.	Scanning electron microscopy for analysing maturity of compost/vermicompost from crop residue spiked with cattle dung, <i>Azolla pinnata</i> and <i>Aspergillus terreus</i>	Environmental Science and Pollution Research	2019	1	-
1027	Kaur J., Kumar V., Singh A.P., Singh V., Bisht A., Dube T., Panda J.J., Behl A., Mishra P.C., Hora R.	<i>Plasmodium falciparum</i> protein 'pfj23' hosts distinct binding sites for major virulence factor 'pfemp1' and maurer's cleft marker 'pfsbp1'	Pathogens and Disease	2019	1	-
1028	Thapar S.S., Sarangal H.	A Study of Data Threats and the Role of Cryptography Algorithms	2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference, IEMCON 2018	2019	4	-
1029	Kaur A., Kaur S., Sharma M., Kaur I.	Self-assembled monolayers of 3-Hydroxy-N-(5-mercapto-1,3,4-thiadiazol-2-yl) benzamide (HMTB): A platform for Impedimetric sensing of Co(II)	Journal of Electroanalytical Chemistry	2019	4	-
1030	Sheetal A., Singh H., Kaur A.	QRS detection of ECG signal using hybrid derivative and MaMeMi filter by effectively eliminating the baseline wander	Analog Integrated Circuits and Signal Processing	2019	7	-



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1031	Singh D., Tiwary A.K., Bedi N.	Canagliflozin loaded SMEDDS: formulation optimization for improved solubility, permeability and pharmacokinetic performance	Journal of Pharmaceutical Investigation	2019	26	-
1032	Kaur P., Robin, Mehta R.G., Singh B., Arora S.	Development of aqueous-based multi-herbal combination using principal component analysis and its functional significance in HepG2 cells	BMC Complementary and Alternative Medicine	2019	12	-
1033	Sharma R., Lobana T.S., Castineiras A., Butcher R.J., Akitsu T.	The influence of substituents at C2/N1 atoms of pyridine-2-formaldehyde-/benzaldehyde-N1-substituted thiosemicarbazones on the type of copper(I) complexes	Polyhedron	2019	2	-
1034	Malhotra N., Bala M.	Fault Diagnosis in Wireless Sensor Networks - A Survey	Proceedings - 4th International Conference on Computing Sciences, ICCS 2018	2019		-
1035	Kaur N., Jindal G., Sukhvinder, Kumar S.	Cascade recognition of Hg <sup>2+</sup> and cysteine using a naphthalene based ES IPT sensor and its application in a set/reset memorized device	New Journal of Chemistry	2019	10	-
1036	Kaur P., Singh K.J., Thakur S., Singh P., Bajwa B.S.	Investigation of bismuth borate glass system modified with barium for structural and gamma-ray shielding properties	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2019	123	-
1037	Kaur I., Kaur P., Singh H.	An empirical evaluation of an advanced version control tool in conflict detection and resolution	International Journal of Computers and Applications	2019		-
1038	Kaur M., Tung S.	Cognitive reasoning processes and identity achievement: Mediating role of identity processing styles	Pakistan Journal of Psychological Research	2019	-	-
1039	Sood S.K., Deep Singh K.	HMM-Based Secure Framework for Optical Fog Devices in the Optical Fog/Cloud Network	Journal of Optical Communications	2019	3	-
1040	Singh N., Singh S., Shevkani K.	Maize: Composition, bioactive constituents, and unleavened bread	Flour and Breads and Their Fortification in Health and Disease Prevention	2019	6	-
1041	Anand A., Singh P., Kumar V., Bhargava G.	Transition metal catalyzed [6 + 2] cycloadditions	RSC Advances	2019	2	-
1042	Singh H.R., Kaur A.	Effect of pruning intensity and time on yield and quality of guava cv. L-49	Research on Crops	2019	1	-
1043	Singh A., Kaur J.	Occurrence of human urogenital myiasis due to neglected personal hygiene: A review	Transactions of the Royal Society of Tropical Medicine and Hygiene	2019	5	-



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1044	Qamar Z., Qizilbash F.F., Iqbal M.K., Ali A., Narang J.K., Ali J., Baboota S.	Nano-based drug delivery system: Recent strategies for the treatment of ocular disease and future perspective	Recent Patents on Drug Delivery and Formulation	2019	6	-
1045	Kaur K., Singh N., Dhawan R.K.	Exploring the role of dimethylarginine dimethylaminohydrolasemediated reduction in tissue asymmetrical dimethylarginine levels in cardio-protective mechanism of ischaemic postconditioning in rats	Iranian Journal of Basic Medical Sciences	2019		-
1046	Singh I., Kaur B.	Using a digital storage oscilloscope to visualise the induced EMF of a magnet passing through a solenoid	Physics Education	2019	-	-
1047	Kaur J., Kaur S.	A survey of efficient trust management schemes in mobile ad-hoc network: Reliable trust management framework of MANET	International Journal of Business Data Communications and Networking	2019	-	-
1048	Singh A., Singh D.	Traumatic myiasis of the scalp in a 3-year-old patient- a case of neglected health care	Malaysian Journal of Medicine and Health Sciences	2019	1	-
1049	Singh I., Khun K.K., Kaur B.	Visualizing the trajectory of a charged particle in electric and magnetic fields using an Excel spreadsheet	Physics Education	2019	3	-
1050	Sohal M.K., Singh R.C., Mahajan A.	Electron beam evaporated tin oxide thin films for thermistor applications	Materials Today: Proceedings	2019	1	-
1051	Kaur N., Mahajan A., Singh D.P.	Substrate induced effects on structural, optical and electrical properties of lead (II)tetrakis (4-cumylphenoxy) phthalocyanine thin films	Materials Today: Proceedings	2019	-	-
1052	Kaur A., Dar Z.I., Kaur S., Kaur P.	EIT-based giant self-kerr-nonlinear behavior of multilevel X-scheme	Materials Today: Proceedings	2019	-	-
1053	Rai R., Agrawal D., Chadha B.S.	New paradigm in degradation of lignocellulosic biomass and discovery of novel microbial strains	Microbial Diversity in Ecosystem Sustainability and Biotechnological Applications: Volume 2. Soil & Agroecosystems	2019	-	-
1054	Chadha B.S., Rai R., Mahajan C.	Hemicellulases for lignocellulosics-based bioeconomy	Biomass, Biofuels, Biochemicals: Biofuels: Alternative Feedstocks and Conversion Processes for the Production of Liquid and Gaseous Biofuels	2019	-	-
1055	Singh H., Sharma A., Bhardwaj A., Kaur B., Badial K., Kaur S., Singh B.	Evaluation of antinociceptive effect of seed extracts of Eugenia jambolana Linn	Plant Archives	2019	-	-



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1056	Kaur K., Mehta S.	Output, employment and productivity: Contribution of different technology intensive manufacturing industries of India	International Journal of Economic Policy in Emerging Economies	2019	-	-
1057	Sharma S., Singh G., Singh R.	Human protein function prediction enhancement using decision tree based machine learning approach	Communications in Computer and Information Science	2019	-	-
1058	Narang T.D.	On chebyshev centers in metric spaces	Publications de l'Institut Mathematique	2019	-	-
1059	Razdan K., Sahajpal N.S., Singh K., Singh H., Singh H., Jain S.K.	Formulation of sustained-release microspheres of cefixime with enhanced oral bioavailability and antibacterial potential	Therapeutic Delivery	2019	-	-
1060	Singh K., Malhotra J.	IoT and cloud computing based automatic epileptic seizure detection using HOS features based random forest classification	Journal of Ambient Intelligence and Humanized Computing	2019	6	-
1061	Sethi P., Saini N.S.	Dust-acoustic cnoidal waves in a magnetized quantum dusty plasma	Waves in Random and Complex Media	2019	5	-
1062	Kaur K., Kaur K.	Failure prediction, lead time estimation and health degree assessment for hard disk drives using voting based decision trees	Computers, Materials and Continua	2019	8	-
1063	Bharti S., Singh H.	An Efficient Architectural Framework for Non-obtrusive and Instantaneous Real-Time Identification of Clones During the Software Development Process in IDE	Communications in Computer and Information Science	2019	1	-
1064	Kaur J., Kumar A., Dhingra D.S.	Rank Based Multi Path Job Execution Sequencing for Multi Cluster Environment to Find Shortest Path	Communications in Computer and Information Science	2019		-
1065	Singh P., Kumar K., Kahlon K.S., Sawhney R.S.	Can Tweets Predict Election Results? Insights from Twitter Analytics	Communications in Computer and Information Science	2019	2	-
1066	Kaur P.D., Malhotra J., Arora M.	Role of Perseverance and Persistence for Retaining and Stimulating MOOC Learners	Communications in Computer and Information Science	2019		-
1067	Singh K., Jain S.K., Razdan K., Singh H., Sahajpal N.S., Singh H., Singh A., Thakur S.	Formulation and evaluation of ferrous ascorbate floating tablets for the treatment of anaemia	Drug Delivery Letters	2019		-
1068	Walia P.K., Sharma M., Kumar M., Bhalla V.	UV light promoted 'Metal'/Additive'-free oxidation of alcohols: Investigating the role of alcohols as electron donors	RSC Advances	2019	1	-
1069	Singh H., Sheetal A.	Suitability of FBG for Gain Flatness of 64 × 10 Gbps DWDM System Using Hybrid (EDFA+YDFA) Optical Amplifier in C + L Band up to 50 GHz (0.4 nm) Channel Spacing	Journal of Optical Communications	2019		-
1070	Grover A., Sheetal A.	Improved Performance Investigation of 10 Gb/s-10 GHz 4-QAM Based OFDM-Ro-FSO Transmission Link	Journal of Optical Communications	2019	3	-



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1071	Grover A., Sheetal A.	Performance Analysis of 20 Gbit/s-40 GHz MDM-Ro-FSO Link Incorporating DPSK Modulation Scheme	Journal of Optical Communications	2019	1	-
1072	Sharma A., Sharma V., Chimni S.S.	Organocatalytic enantioselective conjugate addition of pyrazolin-5-ones to arylomethylidene malonates	Organic and Biomolecular Chemistry	2019	6	-
1073	Mehndiratta D., Kang L.S.	Announcement of an appointment of an outside as CEO: A study of stock market reaction	Journal of Advanced Research in Dynamical and Control Systems	2019	-	-
1074	Sharma A., Kumar V., Thukral A.K., Bhardwaj R.	Responses of plants to pesticide toxicity: An overview [Respostas de plantas à toxicidade de pesticidas: Uma visão geral]	Planta Daninha	2019	7	-
1075	Shiekh B.A.	Biomimetic heterobimetallic architecture of Ni(II) and Fe(II) for CO <sub>2</sub> hydrogenation in aqueous media. A DFT study	RSC Advances	2019		-
1076	Kaur P., Singh G., Kaur P.	Intellectual detection and validation of automated mammogram breast cancer images by multi-class SVM using deep learning classification	Informatics in Medicine Unlocked	2019	14	-
1077	Shiekh B.A., Kaur D., Kumar S.	Bio-mimetic self-assembled computationally designed catalysts of Mo and W for hydrogenation of CO <sub>2</sub> /dehydrogenation of HCOOH inspired by the active site of formate dehydrogenase	Physical Chemistry Chemical Physics	2019	2	-
1078	Kaur P., Singh K.	Recent advances in the application of BODIPY in bioimaging and chemosensing	Journal of Materials Chemistry C	2019	33	-
1079	Kaur P., Singh G., Kaur P.	Erratum: Intellectual detection and validation of automated mammogram breast cancer images by multi-class SVM using deep learning classification (Informatics in Medicine Unlocked (2019) 16, (S2352914818301813), (10.1016/j.imu.2019.01.001))	Informatics in Medicine Unlocked	2019	2	-
1080	Kalia N., Singh J., Kaur M.	Immunopathology of recurrent vulvovaginal infections: New aspects and research directions	Frontiers in Immunology	2019	9	-
1081	Singh M., Malhotra J.	2 × 10 Gbit/s-10 GHz Radio over Free Space Optics Transmission System Incorporating Mode Division Multiplexing of Hermite Gaussian Modes	Journal of Optical Communications	2019	9	-
1082	Maheshwari S., Dua A.	Ultrastructural changes in fin epithelium of Channa punctatus (Bloch) exposed to mercuric chloride: sem study	Journal of Toxicology and Environmental Health - Part A: Current Issues	2019		-
1083	Dhillon R., Mehra N.	Hardiness as a moderator in the relationship between emotional autonomy and depression among adolescents	Pakistan Journal of Psychological Research	2019		-



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1084	Kumari A., Kaur R.	Modulation of biochemical and physiological parameters in <i>Hordeum vulgare</i> L. Seedlings under the influence of benzyl-butyl phthalate	PeerJ	2019	6	-
1085	Mahajan H., Singh Arora D., Singh H., Jain S.K., Namarta K., Singh J.	Scientific validation of the antimicrobial and antiproliferative potential of <i>Clerodendrum serratum</i> (L.) Moon, its phytoconstituents and their biosafety by acute oral toxicity study	Drug and Chemical Toxicology	2019	2	-
1086	Kaur K., Kaur K.	An innovative approach towards failure prediction of hard disk drives using machine learning	Journal of Advanced Research in Dynamical and Control Systems	2019		-
1087	Bhatti E., Kaur P.	DRAODM: Diabetic Retinopathy Analysis Through Optimized Deep Learning with Multi Support Vector Machine for Classification	Communications in Computer and Information Science	2019	1	-
1088	Nanda K.	Dynamics between bank-led financial inclusion and economic growth in emerging economies: The case of India	International Journal of Development and Conflict	2019	2	-
1089	Kaur R., Singh M., Singh A.	Influence of samarium and iron substitution on structural and electrical properties of barium zirconate titanate solid solutions	Journal of Asian Ceramic Societies	2019	2	-
1090	Chopra R., Kumar M., Neelam, Bhalla V.	Visible light promoted PANI@Au:CuO catalyzed sequential amination, azidation and annulation for the preparation of 2-arylbenzimidazoles	Green Chemistry	2019	3	-
1091	Ratti N., Kaur P.	Quantitative Analysis of Software Component's Reusability	Smart Innovation, Systems and Technologies	2019		-
1092	Gupta S.	Best coapproximation in quotient spaces	Iranian Journal of Mathematical Sciences and Informatics	2019		-
1093	Shiekh B.A., Kaur D.	Mechanism of atom economical conversion of alcohols and amines to amides using Fe(ii) pincer catalyst. An outer-sphere metal-ligand pathway or an inner-sphere elimination pathway?	RSC Advances	2019	1	-
1094	Sethi P., Singh K., Saini N.S.	Magnetoacoustic Nonlinear Solitary and Freak Waves in Pair-Ion Plasma	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	2019	-	-
1095	Singh B.B.	Rejoinder 2: Straightening the record: Aural memories are historical evidence	Sikh Formations: Religion, Culture, Theory	2019	-	-
1096	Singh K., Malhotra J.	Reinforcement learning-based real time search algorithm for routing optimisation in wireless sensor networks using fuzzy link cost estimation	International Journal of Communication Networks and Distributed Systems	2019	1	-



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1097	Kumar A., Singh H.	Exploiting Parallelism Available in Loops Using Abstract Syntax Tree	Advances in Intelligent Systems and Computing	2019		-
1098	Singh J., Singh G., Singh P., Kaur M.	Evaluation and Classification of Road Accidents Using Machine Learning Techniques	Advances in Intelligent Systems and Computing	2019	1	-
1099	Singh P., Sawhney R.S., Kahlon K.S.	Twitter Based Sentiment Analysis of GST Implementation by Indian Government	Lecture Notes on Data Engineering and Communications Technologies	2019	4	-
1100	Grover L.K., Kaur A.	An improved exponential type estimator of population mean of sensitive variable using optional randomized response technique	Pakistan Journal of Statistics and Operation Research	2019		-
1101	Gujral H.S., Sharma B., Singh P.	Utilization of flour from rice brokens in wheat flour chapatti: evaluation of dough rheology, starch digestibility, glycemic index and retrogradation behavior	Journal of Food Science and Technology	2019	2	-
1102	Singh N., Gujral H.S., Katyal M., Sharma B.	Relationship of Mixolab characteristics with protein, pasting, dynamic and empirical rheological characteristics of flours from Indian wheat varieties with diverse grain hardness	Journal of Food Science and Technology	2019	4	-
1103	Deol H., Singh G., Kumar M., Bhalla V.	Metal nanoparticles embedded in AIEE active supramolecular assemblies: Robust, green and reusable nanocatalysts	Dalton Transactions	2019	2	-
1104	Kaur N., Negi A., Singh H.	Object Oriented Dynamic Coupling and Cohesion Metrics: A Review	Lecture Notes in Networks and Systems	2019	1	-
1105	Dhillon P.K., Kalra S.	A secure multi-factor ECC based authentication scheme for Cloud-IoT based healthcare services	Journal of Ambient Intelligence and Smart Environments	2019	4	-
1106	Kaur A., Singh B.	Does Firm's Size Speak of Its Reputation? Indian Evidence	Global Business Review	2019		-
1107	Singh G., Komal, Singh G., Kaur M., Kang T.S.	A new sustainable approach towards preparation of sunlight active Ag/AgBr Janus nanoparticles using non-toxic surface active ionic liquid	Journal of Materials Chemistry A	2019	6	-
1108	Ghuman M.K., Parmar Y., Mann B.J.S.	Measuring Celebrity Equity: Unearthing the Consumer Knowledge Structure Associations	Global Business Review	2019	5	-
1109	Bhatia S., Malhotra J.	Cloud security and forensic awareness survey: An empirical analysis	Journal of Engineering and Applied Sciences	2019		-
1110	Sheetal A., Singh H.	Cost Efficient 4x 2.5 Gb/s Transparent WDM Ring Network using DML and MetroCor Fiber for Long Reach Applications	Journal of Optical Communications	2019	3	-
1111	Kaur K., Kaur K.	Failure prediction and health status assessment of storage systems with decision trees	Communications in Computer and Information Science	2019	4	-
1112	Bharti S., Singh H.	Investigating developers' sentiments associated with software cloning practices	Communications in Computer and Information Science	2019		-



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1113	Kaur H., Devi G.	Impact of neighboring agent's characteristics with Q-learning in network multi-agent system	Communications in Computer and Information Science	2019		-
1114	Kaur J., Kaur K.	Fault Aware Improved Clustering Algorithm to Improve Execution Time of the Cloudlets	Communications in Computer and Information Science	2019		-
1115	Kumar M., Singh D., Bedi N.	Mefenamic acid-loaded solid SMEDDS: An innovative aspect for dose reduction and improved pharmacodynamic profile	Therapeutic Delivery	2019	4	-
1116	Kaur M., Singh P.	Targeting tyrosine kinase: Development of acridone – pyrrole – oxindole hybrids against human breast cancer	Bioorganic and Medicinal Chemistry Letters	2019	5	-
1117	Aggarwal R., Singh S., Saini V., Kaur G.	Synthesis, Characterization, and Evaluation of Surface and Thermal Properties and Cytotoxicity of 2-Hydroxy-3-Phenoxypropyl Imidazolium Bola-Type Gemini Amphiphiles	Journal of Surfactants and Detergents	2019	3	-
1118	Bhandari A., Kaur K.	An enhanced post-migration algorithm for dynamic load balancing in cloud computing environment	Advances in Intelligent Systems and Computing	2019	1	-
1119	Kaur H., Sharma A.	Sanction enforcement for norm violation in multi-agent systems: a cafe case study	Advances in Intelligent Systems and Computing	2019		-
1120	Singh T.P., Siddiqi R.A., Sogi D.S.	Statistical optimization of enzymatic hydrolysis of rice bran protein concentrate for enhanced hydrolysate production by papain	LWT	2019	12	-
1121	Kaur N., Singh H.	Parametric and functional-based analysis of object-oriented dynamic coupling metrics	Studies in Computational Intelligence	2019		-
1122	Negi A., Kaur P.	Examination of sense significance in semantic web services discovery	Studies in Computational Intelligence	2019		-
1123	Singh R.	Hybrid metaheuristic based scheduling with job duplication for cloud data centers	Advances in Intelligent Systems and Computing	2019	1	-
1124	Verma P., Sood S.K.	A comprehensive framework for student stress monitoring in fog-cloud IoT environment: m-health perspective	Medical and Biological Engineering and Computing	2019	10	-
1125	Pratibha, Kaur P.D.	A context-aware recommender engine for smart kitchen	Advances in Intelligent Systems and Computing	2019		-
1126	Gulati N., Kaur P.D.	When things become friends: A semantic perspective on the social Internet of Things	Advances in Intelligent Systems and Computing	2019	4	-
1127	Ahuja C., Kaur P., Singh H.	Software architecture evaluation in Agile environment	Advances in Intelligent Systems and Computing	2019		-
1128	Dogra A., Kaur K., Ali J., Baboota S., Narang R.S., Narang J.K.	Nanoformulations for ocular delivery of drugs - A patent perspective	Recent Patents on Drug Delivery and Formulation	2019	1	-



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1129	Handa R., Narula R.K., Gandhi C.P.	Applications of information measures to the theory of coding	International Journal on Emerging Technologies	2019		-
1130	Handa R., Narula R.K., Gandhi C.P.	New entropic modeling for discrete probability distributions	International Journal on Emerging Technologies	2019		-
1131	Verma M., Singh K., Bakshi M.S.	Surface active magnetic iron oxide nanoparticles for extracting metal nanoparticles across an aqueous-organic interface	Journal of Materials Chemistry C	2019	15	-
1132	Singh N., Singh P., Shevkani K., Virdi A.S.	Amaranth: Potential source for flour enrichment	Flour and Breads and Their Fortification in Health and Disease Prevention	2019	3	-
1133	Arora S., Randhawa G.	Socio-economic variables and quality of work life: Public transportation bus drivers	SCMS Journal of Indian Management	2019		-
1134	Kumar K., Kumar S., Singh P., Kaur S., Kaur S., Bhargava G.	Self-Assembled nanofibers of perylene diimide for the detection of hypochlorite in water, bio-fluids and solid-state: Exogenous and endogenous bioimaging of hypochlorite in cells	Journal of Materials Chemistry B	2019	14	-
1135	Komal, Kaur H., Kainth M., Meena S.S., Kang T.S.	Sustainable preparation of sunlight active $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles using iron containing ionic liquids for photocatalytic applications	RSC Advances	2019	4	-
1136	Bhat S.A., Vig A.P.	Vermistabilization and detoxification of sugar industry sludges by earthworms	Industrial and Municipal Sludge: Emerging Concerns and Scope for Resource Recovery	2019	3	-
1137	Kaur I., Sharma V., Mobin S.M., Khajuria A., Ohri P., Kaur P., Singh K.	Aggregation tailored emission of a benzothiazole based derivative: Photostable turn on bioimaging	RSC Advances	2019	4	-
1138	Singh D., Tiwary A.K., Bedi N.	Self-microemulsifying drug delivery system for problematic molecules: An update	Recent Patents on Nanotechnology	2019	2	-
1139	Kour A., Sharma S., Sambyal V., Guleria K., Singh N.R., Uppal M.S., Manjari M., Sudan M., Kukreja S.	Risk factor analysis for breast cancer in premenopausal and postmenopausal women of Punjab, India	Asian Pacific Journal of Cancer Prevention	2019		-
1140	Kumar K., Kaur S., Kaur S., Bhargava G., Kumar S., Singh P.	Perylene diimide-Cu <sup>2+</sup> based fluorescent nanoparticles for the detection of spermine in clinical and food samples: A step toward the development of a diagnostic kit as a POCT tool for spermine	Journal of Materials Chemistry B	2019	11	-



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1141	Singh P., Farhan M., Saajan S., Singh P.	A study to access factors affecting agripreneurship in diversified utilization of potato crop in state of Punjab and Himachal Pradesh	Plant Archives	2019		-
1142	Singh D., Singh M., Tharmatt A., Tiwary A.K., Bedi N.	Polymeric precipitation inhibitor as an effective trigger to convert supersaturated into supersaturable state in vivo	Therapeutic Delivery	2019		-
1143	Heidari A., Kumar V., Keshavarzi A.	Appraisal of metallic pollution and ecological risks in agricultural soils of Alborz province, Iran, employing contamination indices and multivariate statistical analyses	International Journal of Environmental Health Research	2019	7	-
1144	Jain M., Kaur S., Singh P.	Supplementary variable technique (SVT) for non-Markovian single server queue with service interruption (QSI)	Operational Research	2019	4	-
1145	Arora A., Misra S.K., Verma R.	Differentiation strategy in private banking services in India: Identifying role of tangible factors & traits affecting service levels	International Journal on Emerging Technologies	2019	1	-
1146	Bhardwaj R., Singh H.	Modelling the effect of knowledge management performance on organisational effectiveness: A study of e-governance in India	Electronic Government	2019		-
1147	Thakur S., Kaur P., Devgan K., Singh L.	Temperature dependent electrical transport characteristics of polyaniline films modified with gold nanoparticles	Materials Today: Proceedings	2019		-
1148	Singh P., Dwivedi Y.K., Kahlon K.S., Rana N.P., Patil P.P., Sawhney R.S.	Digital Payment Adoption in India: Insights from Twitter Analytics	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2019		-
1149	Saggu S.K., Jha G., Mishra P.C.	Enzymatic degradation of biofilm by metalloprotease from microbacterium sp. Sks10	Frontiers in Bioengineering and Biotechnology	2019	14	-
1150	Godara S.K., Singh H., Malhi P.S., Kaur V., Narang S.B., Sood A.K., Bhadu G.R., Chaudhari J.C.	Synthesis and characterization of Zn <sup>2+</sup> -Zr <sup>4+</sup> substituted barium hexaferrite by sol gel auto combustion method	Materials Today: Proceedings	2019	5	-
1151	Singh B.B.	Memory and pedagogy of Gurbāṅ ī Saṅ gīta: An autoethnographic Udāsī*	Sikh Formations: Religion, Culture, Theory	2019		-
1152	Prasher P., Sharma M.	Tailored therapeutics based on 1,2,3-1: H -triazoles: A mini review	MedChemComm	2019	15	-
1153	Kumari M., Sharma R., Sheetal A.	Comparative Analysis of High Speed 20/20 Gbps OTDM-PON, WDM-PON and TWDM-PON for Long-Reach NG-PON2	Journal of Optical Communications	2019	5	-



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1154	Singh C.J., Kaur S., Jain M.	Analysis of bulk queue with additional optional service, vacation and unreliable server	International Journal of Mathematics in Operational Research	2019	3	-
1155	Sharma M., Singh G., Singh R.	Design of GA and ontology based NLP frameworks for online opinion mining	Recent Patents on Engineering	2019	3	-
1156	Kriti K., Kaur P., Kaur S., Arora D., Asokan K., Singh D.P.	Influence of defect structure on colour tunability and magneto optical behaviour of WO <sub>3</sub> nanoforms	RSC Advances	2019	3	-
1157	Singh H., Kinarivala N., Sharma S.	Multi-targeting anticancer agents: Rational approaches, synthetic routes and structure activity relationship	Anti-Cancer Agents in Medicinal Chemistry	2019	9	-
1158	Kaur I., Gupta A., Singh B.P., Kumar R., Chawla J.	Defluoridation of water using micelle templated MCM-41: Adsorption and RSM studies	Journal of Water Supply: Research and Technology - AQUA	2019	3	-
1159	Gupta P., Singh L., Singh K.	The hybrid antimalarial approach	Annual Reports in Medicinal Chemistry	2019	2	-
1160	Sharma M., Samriti, Singh G.	Need and design of smart and secure energy-efficient IoT-based healthcare framework	Studies in Systems, Decision and Control	2019		-
1161	Majumdar A., Laskar N.M., Biswas A., Sood S.K., Baishnab K.L.	Energy efficient e-healthcare framework using HWPSO-based clustering approach	Journal of Intelligent and Fuzzy Systems	2019	3	-
1162	Kang T.S., Morikawa M.-A., Kimizuka N.	Liquid crystalline microspheres of azobenzene amphiphiles formed by thermally induced pH changes in binary water-hydrolytic ionic liquid media	Chemical Communications	2019	1	-
1163	Singh D., Bedi N., Tiwary A.K.	Comparison of UV spectrophotometric and HPLC method for estimating canagliflozin in bulk and a tablet dosage form	Indian Journal of Pharmaceutical Sciences	2019	2	-
1164	Singh D., Tiwary A.K., Bedi N.	Role of porous carriers in the biopharmaceutical performance of solid SMEDDS of canagliflozin	Recent Patents on Drug Delivery and Formulation	2019	6	-
1165	Singh J.V., Mal G., Kaur G., Gupta M.K., Singh A., Nepali K., Singh H., Sharma S., Bedi S.P.M.	Benzoflavone derivatives as potent antihyperuricemic agents	MedChemComm	2019	10	-
1166	Singh J.V., Mal G., Kaur G., Gupta M.K., Singh A.P., Nepali K., Singh H., Sharma S., Bedi P.M.S.	Correction: Benzoflavone derivatives as potent antihyperuricemic agents(MedChemCommun (2019) DOI: 10.1039/c8md00512e)	MedChemComm	2019	1	-
1167	Singh P., Dwivedi Y.K., Kahlon K.S., Sawhney R.S.	Intelligent monitoring and controlling of public policies using social media and cloud computing	IFIP Advances in Information and Communication Technology	2019	5	-



Sr. No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	Citation Index	Number of citations excluding self citation
1168	Kalia N., Singh J., Sharma S., Kaur M.	SNPs in 3'-UTR region of MBL2 increases susceptibility to recurrent vulvovaginal infections by altering sMBL levels	Immunobiology	2019	9	-
1169	Singh K., Kaur P., Devra S., Kaur G.	Evaluation of gain spectrum of dual/triple pumped fiber Raman amplifier (FRA) by optimizing its pumping parameters in the scenario of dense wavelength division multiplexed (DWDM) systems	Optik	2019	2	-
1170	Sethi N., Singh S., Singh G.	Improved mutation-based particle swarm optimization for load balancing in cloud data centers	Advances in Intelligent Systems and Computing	2019	3	-
1171	Jain R.K., Kaur J., Arora S., Kumar A., Chawla A.K., Khanna A.	Effects of oblique angle deposition on structural, electrical and wettability properties of Bi thin films grown by thermal evaporation	Applied Surface Science	2019	13	-
1172	Kumar K., Kaur P.	A comparative analysis of static and dynamic java bytecode watermarking algorithms	Advances in Intelligent Systems and Computing	2019		-
1173	Kabra A., Sharma R., Singla S., Kabra R., Baghel U.S.	Pharmacognostic characterization of Myrica esculenta leaves	Journal of Ayurveda and Integrative Medicine	2019	7	-
1174	Kaur P., Rahul, Kaur S., Kriti, Arora D., Asokan K., Paul Singh D.	Correlation between lattice deformations and optical properties of Ni doped ZnO at dilute concentration	Materials Today: Proceedings	2019	1	-
1175	Sarangal H., Singh A., Malhotra J., Thapar S.S.	Design of Hybrid DWDM and SAC-OCDMA System Utilizing ZCC Code to Enhance User Volume	Lecture Notes on Data Engineering and Communications Technologies	2019		-
1176	Punia S., Sandhu K.S., Kaur M., Siroha A.K.	Nanotechnology: A Successful Approach to Improve Nutraceutical Bioavailability	Nanotechnology in the Life Sciences	2019	2	-
1177	Bakshi P., Handa N., Gautam V., Kaur P., Sareen S., Mir B., Bhardwaj R.	Role and regulation of plant hormones as a signal molecule in response to abiotic stresses	Plant Signaling Molecules: Role and Regulation under Stressful Environments	2019	1	-
1178	Prashar S., Singh S., Engles D., Kaushik S.	2-layer and 3-layer fiber geometry model based analysis of refractive index sensitivity of long period fiber grating with reduced cladding	Journal of Optoelectronics and Advanced Materials	2019	1	-
1179	Sharma P., Sharma P., Arora P., Verma V., Khanna K., Saini P., Bhardwaj R.	Role and regulation of ROS and antioxidants as signaling molecules in response to abiotic stresses	Plant Signaling Molecules: Role and Regulation under Stressful Environments	2019	4	-
1180	Aggarwal M., Goyal V., Kashyap R., Kumar H., Gill T.S.	Effects of plasma electron temperature and magnetic field on the propagation dynamics of Gaussian laser beam in weakly relativistic cold quantum plasma	Laser and Particle Beams	2019	1	-



Sr. No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	Citation Index	Number of citations excluding self citation
1181	Singh M., Dhasarathan V.	Enhanced Performance Analysis of 10 Gbit/s-10 GHz OFDM-Based Radio over FSO Transmission System Incorporating ODSB and OSSB Modulation Schemes	Journal of Optical Communications	2019	2	-
1182	Singh P., Dureja J.S., Singh H., Bhatti M.S.	Environment friendly milling of Inconel-625	International Journal of Materials and Structural Integrity	2019		-
1183	Sulaiman A.A.A., Kalia N., Bhatia G., Kaur M., Fettouhi M., Altaf M., Baig N., Kawde A.-N., Isab A.A.	Cytotoxic effects of gold(i) complexes against colon, cervical and osteo carcinoma cell lines: A mechanistic approach	New Journal of Chemistry	2019	2	-
1184	Chandok S., Ansari A.H., Narang T.D.	Some approximate fixed point theorems without continuity of the operator using auxiliary functions	Mathematica Bohemica	2019		-
1185	Kaushal M., Lobana T.S., Nim L., Bala R., Arora D.S., Garcia-Santos I., Duff C.E., Jasinski J.P.	Synthesis of 2-acetylpyridine-N-substituted thiosemicarbazones of copper(ii) with high antimicrobial activity against methicillin resistant S. aureus, K. pneumoniae 1 and C. albicans	New Journal of Chemistry	2019	2	-
1186	Sharma M., Chadha P.	Immunological impairment as a marker of 4-nonylphenol induced stress	Indian Journal of Animal Sciences	2019		-
1187	Aulakh J.K., Lobana T.S., Sood H., Arora D.S., Kaur R., Singh J., Garcia-Santos I., Kaur M., Jasinski J.P.	Silver derivatives of multi-donor heterocyclic thioamides as antimicrobial/anticancer agents: Unusual bio-activity against methicillin resistant: S. aureus, S. epidermidis, and E. faecalis and human bone cancer MG63 cell line	RSC Advances	2019	10	-
1188	Jain B., Brar G., Malhotra J.	AMST-MAC: Adaptive sleeping multi-frames selective data transmission control for wireless sensor networks	International Journal of Advanced Intelligence Paradigms	2019		-
1189	Sharma B., Singh A., Gu L., Saha S.T., Singh-Pillay A., Cele N., Singh P., Kaur M., Kumar V.	Diastereoselective approach to rationally design tetrahydro- $\beta$ -carboline-isatin conjugates as potential SERMs against breast cancer	RSC Advances	2019	12	-
1190	Sandhu R.S., Singh N., Kaler R., Singh B.	Optimization of process parameters for preparation of rice extrudates from short and long Indica rice cultivars milled to varying degree of milling	Journal of Food Science and Technology	2019	1	-
1191	Singh P., Dureja J.S., Singh H., Bhatti M.S.	Performance evaluation of coated carbide tool during face milling of AISI 304 under different cutting environments	Materials Research Express	2019	2	-



Sr. No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	Citation Index	Number of citations excluding self citation
1192	Shevkani K., Singh N., Chen Y., Kaur A., Yu L.	Pulse proteins: secondary structure, functionality and applications	Journal of Food Science and Technology	2019	17	-
1193	Sran B.S., Gonzalez J.F., Montigaud V., Le Guennic B., Pointillart F., Cador O., Hundal G.	Structural and magnetic investigations of a binuclear coordination compound of dysprosium(iii) dinitrobenzoate	Dalton Transactions	2019	3	-
1194	Singh A., Lumb I., Mehra V., Kumar V.	Correction: Ferrocene-appended pharmacophores: An exciting approach for modulating the biological potential of organic scaffolds (Dalton Transactions (2019) DOI: 10.1039/c8dt03440k)	Dalton Transactions	2019	2	-
1195	Singh A., Lumb I., Mehra V., Kumar V.	Ferrocene-appended pharmacophores: An exciting approach for modulating the biological potential of organic scaffolds	Dalton Transactions	2019	43	-
1196	Nayyar A., Puri V., Le D.-N.	Comprehensive analysis of routing protocols surrounding underwater sensor networks (UWSNs)	Advances in Intelligent Systems and Computing	2019	17	-
1197	Kaur R., Singh K., Khullar P., Gupta A., Ahluwalia G.K., Bakshi M.S.	Applications of Molecular Structural Aspects of Gemini Surfactants in Reducing Nanoparticle-Nanoparticle Interactions	Langmuir	2019	8	-
1198	Sidhu G.P.S., Bali A.S., Bhardwaj R.	Role of organic acids in mitigating cadmium toxicity in plants	Cadmium Tolerance in Plants: Agronomic, Molecular, Signaling, and Omic Approaches	2019	9	-
1199	Kumar S., Palma G., Perumal S., Kaur M., Singh-Pillay A., Raj R., Singh P., Kumar V.	Triarylethylene-indolin-2,3-dione molecular conjugates: Design, synthesis, docking studies and anti-proliferation evaluation	RSC Advances	2019	4	-
1200	Mohammed J., Hafeez H.Y., Tchouank Tekou Carol T., Sharma J., Isma'II U.T., Godara S.K., Srivastava A.K.	Structural, dielectric and magnetic properties of Al-Mn substituted nano-sized M-type strontium hexagonal ferrites	Materials Today: Proceedings	2019	4	-
1201	Kaur N., Mahajan A., Bhullar V., Singh D.P., Saxena V., Debnath A.K., Aswal D.K., Devi D., Singh F., Chopra S.	Fabrication of plasmonic dye-sensitized solar cells using ion-implanted photoanodes	RSC Advances	2019	2	-
1202	Etherington, M.K., Kukhta, N.A., Higginbotham, H.F., Danos, A., Bismillah, A.N., Graves, D.R., McGonigal, P.R., Haase, N., Morherr, A., Batsanov, A.S.,	Persistent Dimer Emission in Thermally Activated Delayed Fluorescence Materials	Journal of Physical Chemistry C	2019		-



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	Pflumm, C., Bhalla, V., Bryce, M.R., Monkman, A.P.					
1203	Sonkar A.K., Rai A., Tripathi K., Sharma P., Roesky H.W., Drew M.G.B., Mishra L.	A benzimidazolyl terpyridine-Fe <sup>2+</sup> system and its recognition driven molecular model of a traffic light	Dalton Transactions	2019		-
1204	Bansal S., Aggarwal M., Gill T.S.	Study of obliquely propagating electron acoustic shock waves with non-extensive electron population	Plasma Science and Technology	2019	4	-
1205	Sahajpal N.S., Goel R.K., Chaubey A., Aurora R., Jain S.K.	Pathological perturbations in diabetic retinopathy: Hyperglycemia, AGEs, oxidative stress and inflammatory pathways	Current Protein and Peptide Science	2019	21	-
1206	Jomaa M.Y., Ahmad S., Seliman A.A.A., Popoola S.A., Shaikh A.R., Al-Saadi A.A., Bhatia G., Singh J., Isab A.A.	Synthesis, spectroscopic characterization and in vitro cytotoxic as well as docking studies of cis-diammine platinum(II) complexes of thiones	Inorganica Chimica Acta	2019	2	-
1207	Prasher P., Sharma M., Mudila H., Khati B.	Uptake, accumulation, and toxicity of metal nanoparticles in autotrophs	Nanotechnology for Agriculture: Advances for Sustainable Agriculture	2019		-
1208	Kaur M., Singh G., Damarla K., Singh G., Wang H., Wang J., Aswal V.K., Kumar A., Kang T.S.	Aqueous systems of a surface active ionic liquid having an aromatic anion: Phase behavior, exfoliation of graphene flakes and its hydrogelation	Physical Chemistry Chemical Physics	2019	6	-
1209	Singh H., Sahajpal N.S., Singh H., Vanita V., Roy P., Paul S., Singh S.K., Kaur I., Jain S.K.	Pre-clinical and cellular toxicity evaluation of 7-methylxanthine: an investigational drug for the treatment of myopia	Drug and Chemical Toxicology	2019	3	-
1210	Sharma A., Shahzad B., Rehman A., Bhardwaj R., Landi M., Zheng B.	Response of phenylpropanoid pathway and the role of polyphenols in plants under abiotic stress	Molecules	2019	173	-
1211	Rani A., Viljoen A., Johansen M.D., Kremer L., Kumar V.	Synthesis, anti-mycobacterial and cytotoxic evaluation of substituted isoindoline-1,3-dione-4-aminoquinolines coupled: Via alkyl/amide linkers	RSC Advances	2019	6	-
1212	Mohammed J., Hafeez H.Y., Tchouank Tekou Carol T., Ndikilar C.E., Sharma J., Maji P.K., Godara S.K., Srivastava A.K.	Structural, dielectric, and magneto-optical properties of Cu <sup>2+</sup> -Er <sup>3+</sup> substituted nanocrystalline strontium hexaferrite	Materials Research Express	2019	14	-



## Annexure-XX

## h-Index of the Institutional Publications during the Academic Year. (Based on Scopus/ Web of science) 2019-20

Sr.No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	h-index	Citation Index	Number of citations excluding self citation
1	Kanwar P.	Pubertal development and problem behaviours in Indian adolescents	International Journal of Adolescence and Youth	2020	-	-	-
2	Saini M., Chahal K.K., Verma R., Singh A.	Customer reviews as the measure of software quality	IET Software	2020	-	-	-
3	Lowdon J.W., Diliën H., Singla P., Peeters M., Cleij T.J., van Grinsven B., Eersels K.	MIPs for commercial application in low-cost sensors and assays – An overview of the current status quo	Sensors and Actuators, B: Chemical	2020	-	6	-
4	Shalini, Kumar S., Gendrot M., Fonta I., Mosnier J., Cele N., Awolade P., Singh P., Pradines B., Kumar V.	Amide Tethered 4-Aminoquinoline-naphthalimide Hybrids: A New Class of Possible Dual Function Antiplasmodials	ACS Medicinal Chemistry Letters	2020	-	2	-
5	Singh H., Chinna G.S., Singh A.	Integrated weed management in processing potato ( <i>Solanum tuberosum</i> L.) using straw mulching and herbicides	Agricultural Research Journal	2020	-	-	-
6	Rani Y., Kaur K., Sharma M., Kalia N.	In silico analysis of SNPs in human phosphofructokinase, muscle (PFKM) gene: An apparent therapeutic target of aerobic glycolysis and cancer	Gene Reports	2020	-	-	-
7	Sharma V., Bala M.	An Improved Task Allocation Strategy in Cloud using Modified K-means Clustering Technique	Egyptian Informatics Journal	2020	-	1	-
8	Gahlay G.K., Rajput N.	The enigmatic sperm proteins in mammalian fertilization: An overview	Biology of Reproduction	2020	-	-	-
9	Singh M., Singh M.L., Singh G., Kaur H., Priyanka, Kaur S.	Modeling and performance evaluation of underwater wireless optical communication system in the presence of different sized air bubbles	Optical and Quantum Electronics	2020	-	2	-
10	Kaur N., Arora D.S.	Prospecting the antimicrobial and antibiofilm potential of <i>Chaetomium globosum</i> an endophytic fungus from <i>Moringa oleifera</i>	AMB Express	2020	-	-	-
11	Kaur N., Arora D.S., Kalia N., Kaur M.	Bioactive potential of endophytic fungus <i>Chaetomium globosum</i> and GC-MS analysis of its responsible components	Scientific Reports	2020	-	1	-
12	Khajuria A., Ohri P.	Polyamines induced nematode stress tolerance in <i>Solanum lycopersicum</i> through altered physico-chemical attributes	Physiological and Molecular Plant Pathology	2020	-	-	-



Sr.No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	h-index	Citation Index	Number of citations excluding self citation
13	Kaur N., Kaur M., Mahajan M., Jain S.K.	Development, characterization and evaluation of nanocarrier based formulations of antipsoriatic drug "acitretin" for skin targeting	Journal of Drug Delivery Science and Technology	2020	-	1	-
14	Kaur J., Singh H.	Fabrication of composite material based nanogenerator for electricity generation enhancement of food waste by-product	Materials Chemistry and Physics	2020	-		-
15	Singh P.	Synthesis of novel benzocoronene tetracarboxdiimides for fluorescent imaging of latent fingerprints	Journal of Photochemistry and Photobiology A: Chemistry	2020	-	2	-
16	Singh S., Sharma S., Singh R.C., Sharma S.	Hydrothermally synthesized MoS <sub>2</sub> -multi-walled carbon nanotube composite as a novel room-temperature ammonia sensing platform	Applied Surface Science	2020	-	10	-
17	Chopra N., Chopra G., Kaur D.	Modeling the protein-nucleic acid base interactions through hydrogen-bonded complexes of N-heterocyclic analogs of Indene with amino acid side-chain mimics	Structural Chemistry	2020	-		-
18	Brahmi N., Singh P., Sohal M., Sawhney R.S.	Psychological trauma among the healthcare professionals dealing with COVID-19	Asian Journal of Psychiatry	2020	-	5	-
19	Kaur M., Kaur B., Kaur J., Kaur A., Bhatti R., Singh P.	Role of water in cyclooxygenase catalysis and design of anti-inflammatory agents targeting two sites of the enzyme	Scientific Reports	2020	-		-
20	Kaur N., Bhullar V., Singh D.P., Mahajan A.	Bimetallic Implanted Plasmonic Photoanodes for TiO <sub>2</sub> Sensitized Third Generation Solar Cells	Scientific Reports	2020	-	4	-
21	Chander H., Singh K.P.	Subject mapping of Punjabi language books: A bibliometric study	Annals of Library and Information Studies	2020	-	-	-
22	Sharma M., Kumar V., Mahey S., Bhardwaj R., Thukral A.K.	Antagonistic effects of EDTA against biochemical toxicity induced by Cr(VI) in Hordeum vulgare L. seedlings	Physiology and Molecular Biology of Plants	2020	-	-	-
23	Kour A., Sambyal V., Guleria K., Singh N.R., Uppal M.S., Manjari M., Sudan M.	In silico pathway analysis based on chromosomal instability in breast cancer patients	BMC Medical Genomics	2020	-	-	-
24	Shakthi Murugan K.H., Sharma A., Malhotra J.	Performance analysis of 80 Gbps Ro-FSO system by incorporating hybrid WDM-MDM scheme	Optical and Quantum Electronics	2020	-	-	-
25	Jain M., Kaur S.	(p,N)-Policy for Unreliable Server Bulk Queue with Bernoulli Feedback	International Journal of Applied and Computational Mathematics	2020	-	1	-



Sr.No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	h-index	Citation Index	Number of citations excluding self citation
26	Sharma A., Bajaj P., Bhandari A., Kaur G.	From ayurvedic folk medicine to preclinical neurotherapeutic role of a miraculous herb, <i>Tinospora cordifolia</i>	Neurochemistry International	2020	-	-	-
27	Dar O.I., Sharma S., Singh K., Sharma A., Bhardwaj R., Kaur A.	Biomarkers for the toxicity of sublethal concentrations of triclosan to the early life stages of carps	Scientific Reports	2020	-	-	-
28	Gauttam P., Singh B., Kaur J.	COVID-19 and Chinese Global Health Diplomacy: Geopolitical Opportunity for China's Hegemony?	Millennial Asia	2020	-	-	-
29	Kaur N., Sagar A., Sharma P., Ashish, Pati P.K.	Structural insights into rice SalTol QTL located SALT protein	Scientific Reports	2020	-	-	-
30	Thakur S., Thakur V., Kaur A., Singh L.	Synthesis and the study of structural, thermal and optical properties of (100-x)Bi <sub>2</sub> O <sub>3</sub> -x(BaO-TiO <sub>2</sub> ) glass system	Optik	2020	-	1	-
31	Kaur A., Dar Z.I., Singh N., Wasan A., Kumar S., Kaur P.	The five-level $\Lambda$ - $\Xi$ system as an optical switch under different wavelength mismatching regimes, including one due to Rydberg transition	Optik	2020	-	-	-
32	Singh B., Kaur N., Kumar P., Hallan V., Pati P.K.	Reactive oxygen species generating and scavenging systems play critical role in conferring leaf spot disease resistance in <i>Withania somnifera</i> (L.) Dunal	Industrial Crops and Products	2020	-	3	-
33	Shivani, Kaur I., Chemmanghattu K., Kaur P., Singh K.	Non-linear optical behavior of benzothiazole based chromophores: Second harmonic generation	Dyes and Pigments	2020	-	-	-
34	Datta R., Kaur A., Saraf I., Singh I.P., Kaur S.	Secondary Metabolites of <i>Alpinia galanga</i> Induce toxic Effects in Polyphagous Lepidopteran Pest, <i>Spodoptera litura</i> (Fabricius) [Sekundäre Metaboliten von <i>Alpinia galanga</i> induzieren toxische Wirkungen bei <i>Spodoptera litura</i> (Fabricius)]	Gesunde Pflanzen	2020	-	-	-
35	Karwasra B.L., Kaur M., Gill B.S.	Impact of ultrasonication on functional and structural properties of Indian wheat ( <i>Triticum aestivum</i> L.) cultivar starches	International Journal of Biological Macromolecules	2020	-	2	-
36	Kaur M., Sood S.K.	Hydro-meteorological hazards and role of ICT during 2010-2019: A scientometric analysis	Earth Science Informatics	2020	-	-	-
37	Kaur P., Khanna A., Fábíán M.	Effects of annealing temperature on structural and photoluminescence properties of Eu, Dy and Sm doped CaWO <sub>4</sub> nanoparticles	Ceramics International	2020	-	2	-



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38	Sambyal V., Kaur S., Manjari M., Uppal M.S., Singh N.R., Sudan M., Guleria K.	Linkage disequilibrium and haplotypes of five TP53 polymorphisms in oesophageal cancer patients	Journal of Genetics	2020	-	-	-
39	Singh P., Singh S., Sohal M., Dwivedi Y.K., Kahlon K.S., Sawhney R.S.	Psychological fear and anxiety caused by COVID-19: Insights from Twitter analytics	Asian Journal of Psychiatry	2020	-	4	-
40	Kang L.S., Kaur G.	Personal Cognitive Factors Affecting Career Aspirations of Women Working in Financial Sector in India	Vision	2020	-	1	-
41	Sethi I., Sharma V., Sharma I., Singh G., Bhat G.R., Bhanwer A.J.S., Sharma S., Rai E.	Telomere Maintenance Genes are associated with Type 2 Diabetes Susceptibility in Northwest Indian Population Group	Scientific Reports	2020	-	2	-
42	Kalia N., Singh J., Rauniyar A.K., Kaur M.	A meta-analysis of mannose-binding lectin gene polymorphisms with the risk of recurrent vulvovaginal infections	Scientific Reports	2020	-	1	-
43	Manokamna, Paul S., Singh A., Singh K.L., Singh A.P.	Structural, thermal, electrical and dielectric properties of La <sub>1-x</sub> Sr <sub>x</sub> Mn <sub>0.50</sub> Fe <sub>0.50</sub> O <sub>3</sub> {0.10 ≤ x ≤ 0.40} cathode material for solid oxide fuel cells	Asian Journal of Chemistry	2020	-	-	-
44	Bansal S., Aggarwal M., Gill T.S.	Cylindrical and spherical ion acoustic shock waves with two temperature superthermal electrons in dusty plasma	European Physical Journal D	2020	-	-	-
45	Kumar N., Kumar A., Sahoo S.C., Chimni S.S.	Candida antarctica lipase-B-catalyzed kinetic resolution of 1,3-dialkyl-3-hydroxymethyl oxindoles	Chirality	2020	-	-	-
46	Nazir S., Simnani S., Sahoo B.K., Mishra R., Sharma T., Masood S.	Monitoring geothermal springs and groundwater of Pir Panjal, Jammu and Kashmir, for radon contamination	Journal of Radioanalytical and Nuclear Chemistry	2020	-	2	-
47	Kaushal R., Thakur A., Bhatia A., Arora S., Nehra K.	Synthesis, characterization, DNA-binding and biological studies of novel titanium (IV) complexes	Journal of Chemical Sciences	2020	-	-	-
48	Singh M., Malhotra J., Dhasarathan V.	A high-speed single-channel inter-satellite optical wireless communication link incorporating spectrum-efficient orthogonal modulation scheme	Microwave and Optical Technology Letters	2020	-	-	-
49	Kumar S., Saini A., Legac J., Rosenthal P.J., Raj R., Kumar V.	Amalgamating Isatin/Indole/Nitroimidazole with 7-chloroquinolines via azide-alkyne cycloaddition: Synthesis, anti-plasmodial, and cytotoxic evaluation	Chemical Biology and Drug Design	2020	-	2	-
50	Kumar Y., Pal J., Malhi P.S., Kumar R.	Enhanced electrical conductivity in Zr-Doped (La <sub>0.7</sub> Ba <sub>0.3</sub> )(Mn <sub>0.5</sub> Fe <sub>0.5</sub> )O <sub>3</sub> solid solutions	Journal of Advanced Dielectrics	2020	-	-	-



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51	Sood H., Kumar Y., Gupta V.K., Arora D.S.	Bioprospecting the antimicrobial, antibiofilm and antiproliferative activity of <i>Symplocos racemosa</i> Roxb. Bark phytoconstituents along with their biosafety evaluation and detection of antimicrobial components by GC-MS	BMC Pharmacology and Toxicology	2020	-	-	-
52	Rattan A., Kapoor D., Kapoor N., Bhardwaj R., Sharma A.	Brassinosteroids Regulate Functional Components of Antioxidative Defense System in Salt Stressed Maize Seedlings	Journal of Plant Growth Regulation	2020	-	8	-
53	Wu Y.-J., Yu S.-T., Lai K.-C., Chhabra A., Chang H.-Y., Huang K.-C.	Two-level utilization-based processor allocation for scheduling moldable jobs	Journal of Supercomputing	2020	-	-	-
54	Singh S., Jyoti, Arora B., Sahoo B.K., Yu Y.-M.	Magic wavelengths for optical-lattice based CS and RB active clocks	Atoms	2020	-	-	-
55	Kiran K., Mahey S., Sharma A., Kumar V., Sharma A., Arora S., Bharadwaj R., Kumar R.	Post-infectional changes associated with the progression of leaf spot disease in <i>Calotropis procera</i> Aiton	Physiological and Molecular Plant Pathology	2020	-	1	-
56	Pandey N.K., Singh S.K., Gulati M., Kumar B., Kapoor B., Ghosh D., Kumar R., Khursheed R., Awasthi A., Kuppasamy G., Wadhwa S., Satija S., Dureja H., Jain S.K., Chellappan D.K., Anand K., Mehta M., Dua K.	Overcoming the dissolution rate, gastrointestinal permeability and oral bioavailability of glimepiride and simvastatin co-delivered in the form of nanosuspension and solid self-nanoemulsifying drug delivery system: A comparative study	Journal of Drug Delivery Science and Technology	2020	-	1	-
57	Kaur J., Kumar R., Vohra R., Sawhney R.S.	Borospherene molecular junction-based sensor for detecting radium and radon in water	Journal of Materials Research	2020	-	-	-
58	Singh K., Saini N.S.	Breather Structures and Peregrine Solitons in a Polarized Space Dusty Plasma	Frontiers in Physics	2020	-	-	-
59	Bamola P., Singh B., Bhoumik A., Sharma M., Dwivedi C., Singh M., Dalapati G.K., Sharma H.	Mixed-Phase TiO <sub>2</sub> Nanotube-Nanorod Hybrid Arrays for Memory-Based Resistive Switching Devices	ACS Applied Nano Materials	2020	-	-	-
60	Khanna A., Kaur A., Hirdesh, Tyagi S., Funnell N.P., Bull C.L.	In situ high pressure neutron diffraction and Raman spectroscopy of 20BaO-80TeO <sub>2</sub> glass	RSC Advances	2020	-	-	-



Sr.No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	h-index	Citation Index	Number of citations excluding self citation
61	Kaur H., Kumar M., Bhalla V.	A photocatalytic ensemble HP-T@Au-Fe <sub>3</sub> O <sub>4</sub> : Synergistic and balanced operation in Kumada and Heck coupling reactions	Green Chemistry	2020	-	-	-
62	Kumar S., Kaur N., Mithu V.S.	Amphiphilic ionic liquid induced fusion of phospholipid liposomes	Physical Chemistry Chemical Physics	2020	-	2	-
63	Kaur R., Shiekh B.A., Banipal P.K., Banipal T.S.	Unraveling the binding and micellization behavior of dioctylsulfosuccinate Sodium Salt with vitamin B1 and B6: A physicochemical and computational study	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2020	-	-	-
64	Sharma B., Saha S.T., Perumal S., Gu L., Ebenezer O., Singh P., Kaur M., Kumar V.	Design, Synthesis, Antiproliferative Evaluation, and Molecular Docking Studies of N-(3-Hydroxyindole)-Appended $\beta$ -Carbolines/Tetrahydro- $\beta$ -Carbolines Targeting Triple-Negative and Non-Triple-Negative Breast Cancer	ACS Omega	2020	-	-	-
65	Rani A., Johansen M.D., Roquet-Banères F., Kremer L., Awolade P., Ebenezer O., Singh P., Sumanjit, Kumar V.	Design and synthesis of 4-Aminoquinoline-isoindoline-dione-isoniazid triads as potential anti-mycobacterials	Bioorganic and Medicinal Chemistry Letters	2020	-	2	-
66	Kaur S., Grewal V.	A novel approach for particle swarm optimization-based clustering with dual sink mobility in wireless sensor network	International Journal of Communication Systems	2020	-	4	-
67	Singh R., Kesavan A.K., Landi M., Kaur S., Thakur S., Zheng B., Bhardwaj R., Sharma A.	5-aminolevulinic acid regulates Krebs cycle, antioxidative system and gene expression in Brassica juncea L. to confer tolerance against lead toxicity	Journal of Biotechnology	2020	-	3	-
68	Prajapati G.K., Gupta Y.K., John B.V., Joshi B.N., Kaur H., Kumar N., Danu L.S., Mukhopadhyay S., Dubey S., Jain S.R., Biswas D.C., Nayak B.K.	Temperature and isospin dependence of the level-density parameter in the $A \approx 110$ mass region	Physical Review C	2020	-	1	-
69	Dadwal S., Kumar M., Bhalla V.	"Metal-Free" Nanoassemblies of AIEE-ICT-Active Pyrazine Derivative: Efficient Photoredox System for the Synthesis of Benzimidazoles	Journal of Organic Chemistry	2020	-	-	-
70	Sohal M.K., Gasso S., Singh R.C., Mahajan A.	Influence of erbium doping on electrical properties and thermal sensitivity of tin oxide based temperature sensor	AIP Conference Proceedings	2020	-	-	-
71	Gupta N., Khanna A.	Thermal characteristics and short-range structure in TiO <sub>2</sub> TeO <sub>2</sub> and Bi <sub>2</sub> O <sub>3</sub> -TeO <sub>2</sub> glasses: A comparative study	AIP Conference Proceedings	2020	-	-	-



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72	Singh S., Sharma S.	Ammonia sensor using MoS <sub>2</sub> nanostructures synthesized via bottom-up approach	AIP Conference Proceedings	2020	-	-	-
73	Kaur R., Khanna A.	Structural and thermal properties of magnesium tellurite glasses	AIP Conference Proceedings	2020	-	-	-
74	Kaur J., Jain R.K., Khanna A.	Effects of oblique angle deposition on surface wettability of Sn metal thin films	AIP Conference Proceedings	2020	-	-	-
75	Hirdesh, Khanna A.	Thermal, structural and photoluminescence properties of Eu <sup>3+</sup> /Er <sup>3+</sup> doped Li <sub>2</sub> O-TeO <sub>2</sub> glasses	AIP Conference Proceedings	2020	-	-	-
76	Kaur N., Mahajan A., Singh D.P.	Up-converting rare earth phosphor yttrium doped TiO <sub>2</sub> material for dye sensitized solar cells application	AIP Conference Proceedings	2020	-	-	-
77	Wajhal S., Shinde A.B., Krishna P.S.R., Khanna A.	Evidence of strong correlation between local structures in glass and crystalline phase of lanthanum tellurite system	AIP Conference Proceedings	2020	-	-	-
78	Navjyoti, Saxena V., Bhattacharya S., Singh A., Mahajan A., Muthe K.P.	Ambient-air fabrication with inorganic/polymer hole transport layer: Towards low cost perovskite solar cells	AIP Conference Proceedings	2020	-	-	-
79	Bhullar V., Mahajan A., Bedi R.K.	Electrospun 1D TiO <sub>2</sub> nanorods for enhancing the performance of dye sensitized solar cells	AIP Conference Proceedings	2020	-	-	-
80	Mewada R., Navjyoti, Saxena V., Choudhury S., Mahajan A., Singh A., Muthe K.P.	Low temperature processable crystalline WO <sub>3</sub> langmuir-blodgett ultra-thin film as blocking layer in solar cells application	AIP Conference Proceedings	2020	-	-	-
81	Kaur P., Khanna A., Singh M.N., Sinha A.K.	Investigation of structural and optical characteristics of CaWO <sub>4</sub> and BaWO <sub>4</sub> nanoparticles	AIP Conference Proceedings	2020	-	-	-
82	Kaur H., Sood S.K.	A Smart Disaster Management Framework for Wildfire Detection and Prediction	Computer Journal	2020	-	1	-
83	Kaur A., Sood S.K.	Artificial Intelligence-Based Model for Drought Prediction and Forecasting	Computer Journal	2020	-	1	-
84	Aggarwal N., Narang S.B.	Magnetic characterization of Nickel-Zinc spinel ferrites along with their microwave characterization in Ku band	Journal of Magnetism and Magnetic Materials	2020	-	6	-
85	Singh H., Bala M., Bamber S.S.	Augmenting network lifetime for heterogenous WSN assisted IoT using mobile agent	Wireless Networks	2020	-	2	-
86	Verma P., Sood S.K., Kaur H.	Corrigendum to 'A Fog-Cloud based cyber physical system for Ulcerative Colitis diagnosis and stage classification and management' [Journal Microprocessor and Microsystems, 72 (2020) /102929] (Microprocessors and Microsystems (2020) 72, (S0141933119302273), (10.1016/j.micpro.2019.102929))	Microprocessors and Microsystems	2020	-	-	-



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87	Kumari M., Sharma R., Sheetal A.	Performance analysis of high speed backward compatible TWDM-PON with hybrid WDM-OCDMA PON using different OCDMA codes	Optical and Quantum Electronics	2020	-	-	-
88	Minhas A.S., Sharma N., Singh G., Kankar P.K., Singh S.	Improvement in classification accuracy and computational speed in bearing fault diagnosis using multiscale fuzzy entropy	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2020	-	1	-
89	Kaur A., Singh N., Bhatti M.S., Bhatti R.	Optimization of extraction conditions of Angelica archangelica extract and activity evaluation in experimental fibromyalgia	Journal of Food Science	2020	-	-	-
90	Kaur R., Khanna A., Fábíán M.	Neutron diffraction investigation of strontium tellurite glass, anti-glass and crystalline phases	Phase Transitions	2020	-	-	-
91	Singh B., Kumar A., Singh H., Kaur S., Kaur S., Singh Buttar H., Arora S., Singh B.	Zingerone produces antidiabetic effects and attenuates diabetic nephropathy by reducing oxidative stress and overexpression of NF- $\kappa$ B, TNF- $\alpha$ , and COX-2 proteins in rats	Journal of Functional Foods	2020	-	1	-
92	Dowarah J., Marak B.N., Lalhraizela B.N., Sran B.S., Singh V.P.	Design, Synthesis, In Silico Analysis, and Structural Study of 4,6-Dimethyl-2-(3-(p-tolyloxy)propoxy)nicotinonitrile Fleximer	Crystal Research and Technology	2020	-	1	-
93	Guleria S., Joshi R., Singh D., Kumar S.	Identification of host factors limiting the overexpression of recombinant Cu, Zn superoxide dismutase in Escherichia coli	Biotechnology Letters	2020	-	1	-
94	Sharma M., Sharma S., Singh G.	Remote monitoring of physical and mental state of 2019-nCoV victims using social internet of things, fog and soft computing techniques	Computer Methods and Programs in Biomedicine	2020	-	4	-
95	Lobana T.S., Kaushal M., Bala R., Nim L., Paul K., Arora D.S., Bhatia A., Arora S., Jasinski J.P.	Di-2-pyridylketone-N1-substituted thiosemicarbazone derivatives of copper(II): Biosafe antimicrobial potential and high anticancer activity against immortalized L6 rat skeletal muscle cells	Journal of Inorganic Biochemistry	2020	-	-	-
96	Duhan M., Kumar N., Gupta A., Singh A., Kaur H.	Enhanced room temperature ferromagnetism in Cr and Fe co-doped SnO <sub>2</sub> nanoparticles synthesized by sol-gel method	Vacuum	2020	-	1	-
97	Punia S., Sandhu K.S., Dhull S.B., Kaur M., Siroha A.K.	Kinetic, rheological and thermal studies of flaxseed (Linum usitatissimum L.) oil and its utilization	Journal of Food Science and Technology	2020	-	-	-
98	Kaur H., Singh L., Chibale K., Singh K.	Structure elaboration of isoniazid: synthesis, in silico molecular docking and antimycobacterial activity of isoniazid-pyrimidine conjugates	Molecular Diversity	2020	-	1	-



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99	Singh M., Malhotra J., Atieh A., Kakati D., Vigneswaran D.	Investigation of 340-Gbps terrestrial FSO link incorporating spectral-efficient DP-QPSK-PolSK hybrid modulation scheme	Optical Engineering	2020	-	1	-
100	Prasher P., Singh B., Singh K.	Novel Use of Trypan Blue Dye to Stain Fungus in Corneal Scrapings in Eye Clinics	Cornea	2020	-	-	-
101	Jan S., Singh R., Bhardwaj R., Ahmad P., Kapoor D.	Plant growth regulators: a sustainable approach to combat pesticide toxicity	3 Biotech	2020	-	-	-
102	Singla P., Garg S., Bhatti R., Peeters M., Singh O., Mahajan R.K.	Solubilization of hydrophobic drugs clozapine and oxcarbazepine in the lower and higher molecular weight pluronic mixed micelles-a physicochemical, In vitro release and In vitro anti-oxidant study	Journal of Molecular Liquids	2020	-	3	-
103	Nain V., Kaur M., Sandhu K.S., Thory R., Sinhmar A.	Development, characterization, and biocompatibility of zinc oxide coupled starch nanocomposites from different botanical sources	International Journal of Biological Macromolecules	2020	-	2	-
104	Boukhvalov D.W., Zhidkov I.S., Kukharenko A.I., Cholakh S.O., Jain R.K., Khanna A., Kurmaev E.Z.	X-ray photoelectron spectra and electronic structure of Mo doped V2O5	Thin Solid Films	2020	-	-	-
105	Alam P., Kohli S.K., Al Balawi T., Altalayan F.H., Alam P., Ashraf M., Bhardwaj R., Ahmad P.	Foliar application of 24-epibrassinolide improves growth, ascorbate-glutathione cycle, and glyoxalase system in brown mustard (Brassica juncea (L.) Czern.) under cadmium toxicity	Plants	2020	-	2	-
106	Sivakumar P., Boopathi C.S., Sumithra M.G., Singh M., Malhotra J., Grover A.	Ultra-high capacity long-haul PDM-16-QAM-based WDM-FSO transmission system using coherent detection and digital signal processing	Optical and Quantum Electronics	2020	-	-	-
107	Yadav R., Bhatti M.S., Kansal S.K., Das L., Gilhotra V., Sugha A., Hingmire D., Yadav S., Tandon A., Bhatti R., Goel A., Mandal T.K.	Comparison of ambient air pollution levels of Amritsar during foggy conditions with that of five major north Indian cities: multivariate analysis and air mass back trajectories	SN Applied Sciences	2020	-	1	-
108	Singh C., Nikolic M.V., Narang S.B., Sombra A.S.B., Zhou D., Trukhanov S., Panina L., Singh J., Trukhanov A.	Complex permittivity and complex permeability characteristics of Co-Ti doped barium strontium hexaferrite/paraffin wax composites for application in microwave devices	Applied Physics A: Materials Science and Processing	2020	-	-	-



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109	Prasher P., Sharma M., Aljabali A.A.A., Gupta G., Negi P., Kapoor D.N., Singh I., Zacconi F.C., de Jesus Andreoli Pinto T., da Silva M.W., Bakshi H.A., Chellappan D.K., Tambuwala M.M., Dua K.	Hybrid molecules based on 1,3,5-triazine as potential therapeutics: A focused review	Drug Development Research	2020	-	2	-
110	Singh H., Kaur K., Singh M., Kaur G., Singh P.	Plant Cyclophilins: Multifaceted Proteins With Versatile Roles	Frontiers in Plant Science	2020	-	1	-
111	Pan D., Arora B., Yu Y.-M., Sahoo B.K., Chen J.	Optical-lattice-based Cs active clock with a continual superradiant lasing signal	Physical Review A	2020	-	-	-
112	Singh G.P., Singh J., Kaur P., Kaur S., Arora D., Kaur R., Singh D.P.	Comparison of structural, physical and optical properties of Na <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> and Li <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> glasses to find an advantageous host for CeO <sub>2</sub> based optical and photonic applications	Journal of Non-Crystalline Solids	2020	-	2	-
113	Kohli N., Hastir A., Kumari M., Singh R.C.	Hydrothermally synthesized heterostructures of In <sub>2</sub> O <sub>3</sub> /MWCNT as acetone gas sensor	Sensors and Actuators, A: Physical	2020	-	1	-
114	Singh A., Sharma S., Arora S., Attri S., Kaur P., Kaur Gulati H., Bhagat K., Kumar N., Singh H., Vir Singh J., Mohinder Singh Bedi P.	New coumarin-benzotriazole based hybrid molecules as inhibitors of acetylcholinesterase and amyloid aggregation	Bioorganic and Medicinal Chemistry Letters	2020	-	-	-
115	Kaur P., Kaur S., Kriti, Arora D., Vashishtha P., Gupta G., Chen C.-L., Dong C.-L., Asokan K., Singh D.P.	Excitation induced enhancement of spectral response and energy transfer mechanisms in Fe/Sm modified ZnO phosphors	Journal of Applied Physics	2020	-	-	-
116	Kalsi T., Mitra H., Roy T.K., Godara S.K., Kumar P.	Comprehensive Analysis of Band Gap and Nanotwinning in Cd <sub>1-x</sub> Mg <sub>x</sub> S QDs	Crystal Growth and Design	2020	-	-	-
117	Priya B., Malhotra J.	An intelligent user-RAT association for 5G enabled Smart Grid	2020 IEEE International Conference on Computing, Power and Communication Technologies, GUCON 2020	2020	-	-	-
118	Singh J.V., Bedi P.M.S., Singh H., Sharma S.	Xanthine oxidase inhibitors: patent landscape and clinical development (2015–2020)	Expert Opinion on Therapeutic Patents	2020	-	3	-



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119	Suri K., Singh B., Kaur A., Yadav M.P., Singh N.	Influence of microwave roasting on chemical composition, oxidative stability and fatty acid composition of flaxseed ( <i>Linum usitatissimum</i> L.) oil	Food Chemistry	2020	-	6	-
120	Samiksha, Sohal S.K.	In vitro screening of peptidase inhibitory activity in some plants of North India	Heliyon	2020	-		-
121	Kumar M., Mahajan R., Saini H.S.	Evaluating metabolic potential of <i>Thauera</i> sp. M9 for the transformation of 4-chloroaniline (4-CA)	Biocatalysis and Agricultural Biotechnology	2020	-	3	-
122	Saini V., Kaur T., Kalotra S., Kaur G.	The neuroplasticity marker PSA-NCAM: Insights into new therapeutic avenues for promoting neuroregeneration	Pharmacological Research	2020	-	1	-
123	Samiksha, Singh D., Kesavan A.K., Sohal S.K.	Deterioration of digestive physiology of <i>Bactrocera cucurbitae</i> larvae by trypsin inhibitor purified from seeds of <i>Mucuna pruriens</i>	Pesticide Biochemistry and Physiology	2020	-		-
124	Kaur P., Kaur A., Singh S., Thakur S., Singh L.	Comprehensive analysis of crystal structure, optical and luminescent behavior of Fe doped MgO nanophosphors	Optik	2020	-		-
125	Singh L., Kaur A., Garg S., Singh A.P., Bhatti R.	Protective Effect of Esculetin, Natural Coumarin in Mice Model of Fibromyalgia: Targeting Pro-Inflammatory Cytokines and MAO-A	Neurochemical Research	2020	-	1	-
126	Dhillon B., Sodhi N.S., Gandotra S., Kaur S., Jaiswal S.	Physico-chemical and textural (sensorial and electromyographic) evaluation of idlis formulated with brown rice and pearl millet flours	Journal of Food Measurement and Characterization	2020	-	1	-
127	Gulati N., Kaur P.D.	A game theoretic approach for conflict resolution in argumentation enabled social IoT networks	Ad Hoc Networks	2020	-	1	-
128	Grover A., Sheetal A.	A 2 × 40 Gbps Mode Division Multiplexing Based Inter-satellite Optical Wireless Communication (IsOWC) System	Wireless Personal Communications	2020	-	-	-
129	Trehan S., Singh N., Kaur A.	Diversity and relationship among grain, flour and starch characteristics of Indian Himalayan colored corn accessions	Journal of Food Science and Technology	2020	-	-	-
130	Ablyaz T.R., Shlykov E.S., Muratov K.R., Mahajan A., Singh G., Devgan S., Sidhu S.S.	Surface characterization and tribological performance analysis of electric discharge machined duplex stainless steel	Micromachines	2020	-	5	-
131	Arora K., Singh G., Karthikeyan S., Kang T.S.	One-pot sustainable preparation of sunlight active ZnS@graphene nano-composites using a Zn containing surface active ionic liquid	Nanoscale Advances	2020	-	1	-
132	Kaur P., Singh K.J., Thakur S., Kurudirek M.	Investigation of a competent non-toxic Bi <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O-CeO <sub>2</sub> -MoO <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glass system for nuclear radiation security applications	Journal of Non-Crystalline Solids	2020	-	8	-



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133	Kumar A., Kumar S., Chae P.S.	A novel anthrapyridone diamine-based probe for selective and distinctive Cu <sup>2+</sup> and Hg <sup>2+</sup> sensing in aqueous solution; utility as molecular logic gates	Dyes and Pigments	2020	-	9	-
134	Kaur M., Singh K., Jain S.K.	Luliconazole vesicular based gel formulations for its enhanced topical delivery	Journal of Liposome Research	2020	-	7	-
135	Kaur K., Kaur M.	Determinants of Diffusion and Adoption of ATM cum Debit Cards in Indian Banking Sector	Global Business Review	2020	-	1	-
136	Kaur P., Kumar R., Davessar S., Khanna A.	Structural and optical characterization of Er-doped CaMoO <sub>4</sub> down-converting phosphors	Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials	2020	-	2	-
137	Sharma R., Sharma S., Kumar P., Thangaraj R., Asokan K., Mian M.	Influence of phase transformation on structure–property relationship in quaternary In <sub>10</sub> Sb <sub>10</sub> Ag <sub>10</sub> Se <sub>70</sub> chalcogenide films	Journal of Materials Science: Materials in Electronics	2020	-	-	-
138	Punia S., Sandhu K.S., Kaur M.	Quantification of phenolic acids and antioxidant potential of wheat rusks as influenced by partial replacement with barley flour	Journal of Food Science and Technology	2020	-	2	-
139	Singh H., Singh R., kaur S., Arora R., Mannan R., Buttar H.S., Arora S., Singh B.	Protective role of Phyllanthus fraternus in alloxan-induced diabetes in rats	Journal of Ayurveda and Integrative Medicine	2020	-	2	-
140	Bhongale S.R., Ingavale H.R., Shinde T.J., Pubby K., Bindra Narang S., Vasambekar P.N.	X-Band Microwave Absorption in Nd <sup>3+</sup> -Substituted Mg-Cd Spinel Ferrites Synthesized under Microwave Sintering	IEEE Transactions on Magnetics	2020	-	1	-
141	Jomaa M.Y., Altaf M., Ahmad S., Bhatia G., Singh J., Altuwaijri S., Isab A.A.	Correction to: Synthesis, characterization and theoretical calculations of (1,2-diaminocyclohexane)(1,3-diaminopropane)gold(III) chloride complexes: in vitro cytotoxic evaluations against human cancer cell lines (BioMetals, (2015), 28, (827–844), 10.1007/s10534-015-9869-1)	BioMetals	2020	-	-	-
142	Balasaraswathi M., Singh M., Malhotra J., Dhasarathan V.	A high-speed radio-over-free-space optics link using wavelength division multiplexing-mode division multiplexing-multibeam technique	Computers and Electrical Engineering	2020	-	2	-
143	Singh S., Parmar K.S., Makkhan S.J.S., Kaur J., Peshoria S., Kumar J.	Study of ARIMA and least square support vector machine (LS-SVM) models for the prediction of SARS-CoV-2 confirmed cases in the most affected countries	Chaos, Solitons and Fractals	2020	-	12	-



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144	Singhal A., Shukla R., Kankar P.K., Dubey S., Singh S., Pachori R.B.	Comparing the capabilities of transfer learning models to detect skin lesion in humans	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2020	-	2	-
145	Kumar V., Sharma A., Pandita S., Bhardwaj R., Thukral A.K., Cerda A.	A review of ecological risk assessment and associated health risks with heavy metals in sediment from India	International Journal of Sediment Research	2020	-	6	-
146	Das A., Singh D., Kaur A., Saini C.P., Kanjilal D., Balasubramanian C., Ghosh J., Ahuja R.	Temperature-Dependent Cationic Doping-Driven Phonon Dynamics Investigation in CdO Thin Films Using Raman Spectroscopy	Journal of Physical Chemistry C	2020	-	-	-
147	Sumathi K., Balasaraswathi M., Boopathi C.S., Singh M., Malhotra J., Dhasarathan V.	Design of 3.84 Tbps hybrid WDM-PDM based inter-satellite optical wireless communication (IsOWC) system using spectral efficient orthogonal modulation scheme	Journal of Ambient Intelligence and Humanized Computing	2020	-	2	-
148	Arora K., Karthikeyan S., Shiekh B.A., Kaur M., Singh H., Bhadu G.R., Kang T.S.	In situ preparation of a nanocomposite comprising graphene and $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanospindles for the photo-degradation of antibiotics under visible light	New Journal of Chemistry	2020	-	1	-
149	Singh S., Deb J., Sarkar U., Sharma S.	MoSe <sub>2</sub> Crystalline Nanosheets for Room-Temperature Ammonia Sensing	ACS Applied Nano Materials	2020	-	4	-
150	Kaur K., Singh N., Dhawan R.K.	Potential role of EphrinA2 receptors in postconditioning induced cardioprotection in rats	European Journal of Pharmacology	2020	-	-	-
151	Chawla A., Singh A., Babu P.D., Singh M.	Analysis of phase segregation using rietveld refinement in and magnetic properties of Mn doped BCT solid solutions	Physica B: Condensed Matter	2020	-	2	-
152	Raheja Y., Kaur B., Falco M., Tsang A., Chadha B.S.	Secretome analysis of Talaromyces emersonii reveals distinct CAZymes profile and enhanced cellulase production through response surface methodology	Industrial Crops and Products	2020	-	2	-
153	Sharma V., Kaur M., Sandhu K.S., Godara S.K.	Effect of cross-linking on physico-chemical, thermal, pasting, in vitro digestibility and film forming properties of Faba bean (Vicia faba L.) starch	International Journal of Biological Macromolecules	2020	-	1	-
154	Dhull S.B., Sandhu K.S., Punia S., Kaur M., Chawla P., Malik A.	Functional, thermal and rheological behavior of fenugreek (Trigonella foenum-graecum L.) gums from different cultivars: A comparative study	International Journal of Biological Macromolecules	2020	-	4	-
155	Siddiqi R.A., Singh T.P., Rani M., Sogi D.S., Bhat M.A.	Diversity in Grain, Flour, Amino Acid Composition, Protein Profiling, and Proportion of Total Flour Proteins of Different Wheat Cultivars of North India	Frontiers in Nutrition	2020	-	2	-



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156	Bains V., Kaur H., Badaruddoza B.	Association analysis of polymorphisms in LEP (rs7799039 and rs2167270) and LEPR (rs1137101) gene towards the development of type 2 diabetes in North Indian Punjabi population	Gene	2020	-	1	-
157	Singh J., Singh R.C.	Structural, optical, dielectric and transport properties of ball mill synthesized ZnO–V2O5 nano-composites	Journal of Molecular Structure	2020	-	3	-
158	Kaur P., Khanna A., Singh M.N., Sinha A.K.	Structural and optical characterization of Eu and Dy doped CaWO4 nanoparticles for white light emission	Journal of Alloys and Compounds	2020	-	6	-
159	Deol H., Singh G., Kumar M., Bhalla V.	Phenazine-Based Donor Acceptor Systems as Organic Photocatalysts for "metal-free" C-N/C-C Cross-Coupling	Journal of Organic Chemistry	2020	-	-	-
160	Kaur S., Kaur M.	Behavioral intentions of heritage tourists: Influential variables on recommendations to visit	Journal of Heritage Tourism	2020	-	1	-
161	Kaur S., Pandit K., Chandel M., Kaur S.	Antiproliferative and apoptogenic effects of Cassia fistula L. n-hexane fraction against human cervical cancer (HeLa) cells	Environmental Science and Pollution Research	2020	-	2	-
162	Singh A., Singh G., Kaur P.	Comparison of CERES-Wheat and infocrop model to predict the phenology and yield of wheat	Indian Journal of Ecology	2020	-	-	-
163	Sharma H., Singh D., Mahant A., Sohal S.K., Kesavan A.K., Samiksha	Development of mitochondrial replacement therapy: A review	Heliyon	2020	-	-	-
164	Singh D., Kaur L., Anand N., Singh G., Dhawan R.K., Kaur N.	Role of nanoemulsion for safe and cost-effective delivery of amphotericin b	International Journal of Applied Pharmaceutics	2020	-	-	-
165	Singh S., Singh J., Kandoria A., Quadar J., Bhat S.A., Chowdhary A.B., Vig A.P.	Bioconversion of different organic waste into fortified vermicompost with the help of earthworm: A comprehensive review	International Journal of Recycling of Organic Waste in Agriculture	2020	-	-	-
166	Mahajan A., Sidhu S.S., Devgan S.	Examination of hemocompatibility and corrosion resistance of electrical discharge-treated duplex stainless steel (DSS-2205) for biomedical applications	Applied Physics A: Materials Science and Processing	2020	-	3	-
167	Singh J., Narang T.D.	Convex linear metric spaces are normable	Journal of Analysis	2020	-	-	-
168	Arora N., Singh B.	Determinants of oversubscription of SME IPOs in India: evidence from quantile regression	Asia-Pacific Journal of Business Administration	2020	-	1	-
169	Kaur R., Singh D., Kesavan A.K., Kaur R.	Molecular characterization and antimicrobial susceptibility of bacterial isolates present in tap water of public toilets	International Health	2020	-	2	-



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170	Kaur S., Sonali S.	India fights COVID-19	Psychological Trauma: Theory, Research, Practice, and Policy	2020	-	2	-
171	Gulati H.K., Bhagat K., Singh A., Kumar N., Kaur A., Sharma A., Heer S., Singh H., Singh J.V., Bedi P.M.S.	Design, synthesis and biological evaluation of novel indolinedione-coumarin hybrids as xanthine oxidase inhibitors	Medicinal Chemistry Research	2020	-	2	-
172	Grover L.K., Kaur A.	An Improved Regression Type Estimator of Population Mean with Two Auxiliary Variables in Stratified Double Sampling	Journal of Statistical Theory and Practice	2020	-	-	-
173	Kaur R., Khanna A.	Photoluminescence and thermal properties of trivalent ion-doped lanthanum tellurite anti-glass and glass composite samples	Journal of Luminescence	2020	-	1	-
174	Singh H., Sharma A.K., Gupta M., Singh A.P., Kaur G.	Tinospora cordifolia attenuates high fat diet-induced obesity and associated hepatic and renal dysfunctions in rats	PharmaNutrition	2020	-	4	-
175	Singh P., Kumar K., Kaur N., Kaur S., Kaur S.	Perylene diimide dye threaded with dual-react able sites for detection of H <sub>2</sub> S and Hg <sup>2+</sup> : Diagnostic kit and cell imaging	Dyes and Pigments	2020	-	6	-
176	Saini M., Verma R., Singh A., Chahal K.K.	Investigating diversity and impact of the popularity metrics for ranking software packages	Journal of Software: Evolution and Process	2020	-	2	-
177	Grover L.K., Kaur A.	Corrected estimator of sensitive population proportion using unknown repeated trials in the unrelated question randomized response model	Biometrical Journal	2020	-	-	-
178	Dhillon P., Singh K., Kaur K.	The benefits of probiotic interventions in maternal-fetal health: An appraise review	PharmaNutrition	2020	-	-	-
179	Singh A., Mukhtar H.M., Kaur H., Kaur L.	Investigation of antiplasmodial efficacy of lupeol and ursolic acid isolated from Ficus benjamina leaves extract	Natural Product Research	2020	-	1	-
180	Dutt S., Singh S., Mahajan A., Arora B., Sahoo B.K.	Van der Waals coefficients of the multi-layered MoS <sub>2</sub> with alkali metals	Physica Scripta	2020	-	-	-
181	Kaur A., Pati P.K., Pati A.M., Nagpal A.K.	Physico-chemical characterization and topological analysis of pathogenesis-related proteins from Arabidopsis thaliana and Oryza sativa using in-silico approaches	PLoS ONE	2020	-	-	-
182	Pathak N., Agarwal P.C., Gill T.S., Kaur S.	Characteristics of spatiotemporal dynamics of a quadruple Gaussian laser beam in a relativistic ponderomotive magnetized plasma	Journal of the Optical Society of America B: Optical Physics	2020	-	1	-



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183	Jain R.K., Kaur J., Khanna A., Chawla A.K.	Growth and characterization of hydrophobic anti-reflection CaF <sub>2</sub> films	Journal of Materials Science: Materials in Electronics	2020	-		-
184	Prasher P., Sharma M.	N-acetylgalactosaminyltransferase: A potential target for colorectal adenocarcinoma	Future Medicinal Chemistry	2020	-	1	-
185	Singh D., Mahajan S., Singh G., Razdan K.	Applications of molecular dynamic simulations in lipid-based drug delivery system	Assay and Drug Development Technologies	2020	-		-
186	Sharma S., Singh R., Kaur R.	In Silico Characterization of a Unique Plant-Like “Loopful” GH19 Chitinase from Newly Isolated Chitinophaga sp. YS-16	Current Microbiology	2020	-	1	-
187	Dhull S.B., Kaur M., Sandhu K.S.	Antioxidant characterization and in vitro DNA damage protection potential of some Indian fenugreek ( <i>Trigonella foenum-graecum</i> ) cultivars: effect of solvents	Journal of Food Science and Technology	2020	-	2	-
188	Poonia N., Lather V., Narang J.K., Beg S., Pandita D.	Resveratrol-loaded folate targeted lipoprotein-mimetic nanoparticles with improved cytotoxicity, antioxidant activity and pharmacokinetic profile	Materials Science and Engineering C	2020	-	2	-
189	Kinger M., Sharma J., Kumar M., Bala R., Kumar V., Prakash V.	Synthetic Emergence in N-Arylimidazoles: A Review	Indian Journal of Heterocyclic Chemistry	2020	-		-
190	Monga S., Kaur H., Jain S.R.	Analysis of pairing phase transition in S n -isotopes within semiclassical approach	International Journal of Modern Physics E	2020	-	1	-
191	Sharma N., Khanna K., Manhas R.K., Bhardwaj R., Ohri P., Alkahtani J., Alwahibi M.S., Ahmad P.	Insights into the role of streptomyces hydrogenans as the plant growth promoter, photosynthetic pigment enhancer and biocontrol agent against meloidogyne incognita in solanum lycopersicum seedlings	Plants	2020	-	1	-
192	Singh G., Sandhu H.S., Srinivas Y., Matharoo K., Bhanwer A.J.S.	Genetic portrait of North-West Indian population based on X chromosome Alu insertion markers	International Journal of Legal Medicine	2020	-	1	-
193	Singh H., Singh J., Singh S.K., Singh N., Paul S., Sohal H.S., Gupta U., Jain S.K.	Vitamin E TPGS based palatable, oxidatively and physically stable emulsion of microalgae DHA oil for infants, children and food fortification	Journal of Dispersion Science and Technology	2020	-	3	-
194	Rahim M.S., Mishra A., Katyal M., Thakur S., Sharma M., Kumar P., Parveen A., Jaiswal V., Singh N., Kumar V., Gupta R.K., Sharma H., Roy J.	Marker-trait association identified candidate starch biosynthesis pathway genes for starch and amylose-lipid complex gelatinization in wheat ( <i>Triticum aestivum</i> L.)	Euphytica	2020	-	1	-



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195	Gupta V., Mehta P., Kumar A., Chaudhary M., Diyundi S.C., Sehajpal P.K., Thangaraj K., Rajender S.	c.29C>T polymorphism in the TGF-β1 gene correlates with increased risk of End Stage Renal Disease: original study and meta-analysis	Meta Gene	2020	-		-
196	Kumar A., Kaur V., Pandit K., Tuli H.S., Sak K., Jain S.K., Kaur S.	Antioxidant Phytoconstituents From Onosma bracteata Wall. (Boraginaceae) Ameliorate the CCl4 Induced Hepatic Damage: In Vivo Study in Male Wistar Rats	Frontiers in Pharmacology	2020	-		-
197	Dhaliwal S.S., Taneja P.K., Singh J., Bhatti S.S., Singh R.	Cadmium Accumulation Potential of Brassica Species Grown in Metal Spiked Loamy Sand Soil	Soil and Sediment Contamination	2020	-	4	-
198	Sharma P., Kumar M., Bhalla V.	“Metal-free” fluorescent supramolecular assemblies for distinct detection of organophosphate/organochlorine pesticides	ACS Omega	2020	-	2	-
199	Gilhotra V., Yadav R., Bhatti M.S.	Diminution of fluoride from groundwater using electrocoagulation: Process optimization and role of arsenic interference	Desalination and Water Treatment	2020	-		-
200	Panchal N., Kaur M., Tharmatt A., Thakur S., Jain S.K.	Development, Characterization and Evaluation of Parenteral Formulation of Diclofenac Sodium	AAPS PharmSciTech	2020	-	-	-
201	Punia A., Singh Chauhan N., Kaur S., Kaur Sohal S.	Effect of ellagic acid on the larvae of Spodoptera litura (Lepidoptera:Noctuidae) and its parasitoid Bracon hebetor (Hymenoptera: Braconidae)	Journal of Asia-Pacific Entomology	2020	-	1	-
202	Kaur J., Singh H.	Fabrication and analysis of piezoelectricity in 0D, 1D and 2D Zinc Oxide nanostructures	Ceramics International	2020	-	3	-
203	Sharma M., Manhas R.K.	Purification and characterization of salvianolic acid B from Streptomyces sp. M4 possessing antifungal activity against fungal phytopathogens	Microbiological Research	2020	-	4	-
204	Priyanka, Singh M.L., Gill H.S., Singh M., Kaur S.	An Experimental Evaluation of Link Outage Due to Beam Wander in a Turbulent FSO Link	Wireless Personal Communications	2020	-	1	-
205	Dhillon B., Choudhary G., Sodhi N.S.	A study on physicochemical, antioxidant and microbial properties of germinated wheat flour and its utilization in breads	Journal of Food Science and Technology	2020	-	2	-
206	Kaur P.D., Sharma P.	IC-SMART: IoTCloud enabled Seamless Monitoring for Alzheimer Diagnosis and Rehabilitation SysTem	Journal of Ambient Intelligence and Humanized Computing	2020	-	1	-
207	Bhalla A., Kang L.S.	The Role of Personality in Influencing Work–Family Balance Experience: A Study of Indian Journalists	Global Business Review	2020	-		-



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209	Shukla N., Arora B., Sharma L., Srivastava R.	Two-dipole and three-dipole dispersion coefficients for interaction of alkaline-earth-metal atoms with alkaline-earth-metal atoms and alkaline-earth-metal ions	Physical Review A	2020	-	1	-
210	Sahil, Sood S.K.	Erratum: A scientometric review of global research on smart disaster management (IEEE Transactions on Engineering Management DOI: 10.1109/TEM.2020.2972288)	IEEE Transactions on Engineering Management	2020	-	-	-
211	Thakur S., Singh H., Singh A., Kaur S., Sharma A., Singh S.K., kaur S., Kaur G., Jain S.K.	Thermosensitive injectable hydrogel containing carboplatin loaded nanoparticles: A dual approach for sustained and localized delivery with improved safety and therapeutic efficacy	Journal of Drug Delivery Science and Technology	2020	-	4	-
212	Brar K.K., Espirito Santo M.C., Pellegrini V.O.A., deAzevedo E.R., Guimaraes F.E.C., Polikarpov I., Chadha B.S.	Enhanced hydrolysis of hydrothermally and autohydrolytically treated sugarcane bagasse and understanding the structural changes leading to improved saccharification	Biomass and Bioenergy	2020	-	2	-
213	Verma S., Mahadevan S., Pahwa C., Singh A.P., Narang S.B., Aggarwal N., Sharma P.	Improved Magnetic and Microwave Properties of La-Substituted Barium Hexaferrite Screen-Printed Thick Films	Journal of Superconductivity and Novel Magnetism	2020	-		-
214	Bansal S., Aggarwal M., Gill T.S.	Nonplanar ion acoustic waves in dusty plasma with two temperature electrons: Application to Saturn's e ring	Physics of Plasmas	2020	-	2	-
215	Pramanik A., Das S., Khanna G.L.	Differential effects of performance-enhancing drugs 'Methamphetamine' and 'hCG' on ex-vivo cultured primary blood mononuclear cells of male athletes	Pharmacological Reports	2020	-		-
216	Bhatia A., Arora S., Nagpal A., Singh B.	Screening of rhizomes of Rheum emodi Wall. Ex. Meissen for antimutagenic potential employing Ames assay	Nucleus (India)	2020	-		-
217	Tandon L., Thakur P., Singh K., Khullar P., Ahluwalia G.K., Bakshi M.S.	Photophysical behavior of heme group: Unfolding of hemoglobin and myoglobin in the presence of Gemini surfactants of different molecular architectures	International Journal of Biological Macromolecules	2020	-	4	-
218	Dilbaghi N., Ahuja M., Bernela M., Kumar S., Bhardwaj P., Kaur H.	Synthesis and characterization of novel amphiphilic tamarind seed xyloglucan-octenyl succinic anhydride conjugate	Journal of Polymer Research	2020	-	1	-



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219	Walia S., Mukhia S., Bhatt V., Kumar R., Kumar R.	Variability in chemical composition and antimicrobial activity of <i>Tagetes minuta</i> L. essential oil collected from different locations of Himalaya	Industrial Crops and Products	2020	-	8	-
220	Kumar A., Kumar A., Dogra R., Manhas M., Sharma S., Singh N., Kumar R.	Effect of europium concentration on gamma ray exposed thermoluminescence behaviour of LiF: Sm <sup>3+</sup> , Dy <sup>3+</sup> , Eu <sup>3+</sup> nanophosphor	Optik	2020	-	1	-
221	Chander H., Singh K.P.	Frontline publishers of punjabi language books: A bibliometric study	DESIDOC Journal of Library and Information Technology	2020	-	-	-
222	Singh P., Sharma P., Kaur N., Mittal L.S., Kumar K.	Perylene diimides: Will they flourish as reaction-based probes?	Analytical Methods	2020	-	4	-
223	Kumar J., Ahmad A., Rizvi M.A., Ganie M.A., Khajuria C., Shah B.A.	Photoredox-Mediated Synthesis of Functionalized Sulfoxides from Terminal Alkynes	Organic Letters	2020	-	2	-
224	Bhalla A., Modi G., Yadav P., Kumar P., Bari S.S., Hundal G.	Stereoselective C-3 alkylation of trans-3-phenylsulfonyl- $\beta$ -lactams with organic halides to access C-3 substituted $\beta$ -lactams using sulfonyl moiety as an activating group	Tetrahedron Letters	2020	-	-	-
225	Kaur R., Khanna A., González-Barriuso M., González F.	Structural, thermal and optical characterization of co-existing glass and anti-glass phases of xLa <sub>2</sub> O <sub>3</sub> -(100-x)TeO <sub>2</sub> and 2TiO <sub>2</sub> -xLa <sub>2</sub> O <sub>3</sub> -(98-x)TeO <sub>2</sub> systems	Journal of Non-Crystalline Solids	2020	-	2	-
226	Kaur H., Aggarwal N., Sood A.K., Banipal T.S.	Analysis of micellar, thermodynamic and structural parameters of gemini surfactants in aqueous solutions of vitamins	Journal of Molecular Liquids	2020	-	1	-
227	Dhiman S., Kumar G., Luxami V., Singh P., Kumar S.	A stilbazolium dye-based chromogenic and red-fluorescent probe for recognition of 2,4,6-trinitrophenol in water	New Journal of Chemistry	2020	-	1	-
228	Sharma B., Gu L., Pillay R.P., Cele N., Awolade P., Singh P., Kaur M., Kumar V.	Design, synthesis, and anti-proliferative evaluation of 1: H - 1,2,3-triazole grafted tetrahydro- $\beta$ -carboline-chalcone/ferrocenylchalcone conjugates in estrogen responsive and triple negative breast cancer cells	New Journal of Chemistry	2020	-	3	-
229	Kaur J., Kaur B.P., Chimni S.S.	Recent advances in the catalytic synthesis of 3-aminooxindoles: An update	Organic and Biomolecular Chemistry	2020	-	4	-
230	Sran B.S., Sharma S., Pointillart F., Cador O., Hundal G.	Field-Induced Single Molecular Magnetism and Photoluminescence in Rare Cocrystals of Isomorphous Lanthanide(III) Coordination Compounds with Fully Substituted Pyridine-4-carboxamide Ligand	Inorganic Chemistry	2020	-	4	-



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231	Kaur H., Kahlon K.S.	Measuring the complexity of migration transition: an attempt using metrics	Journal of Experimental and Theoretical Artificial Intelligence	2020	-	-	-
232	Kaur V., Kumar M., Kumar A., Kaur S.	Butea monosperma (Lam.) Taub. Bark fractions protect against free radicals and induce apoptosis in MCF-7 breast cancer cells via cell-cycle arrest and ROS-mediated pathway	Drug and Chemical Toxicology	2020	-	3	-
233	Rani S., Marwaha A., Marwaha S., Bindra S., Chavali M., Reddy P.N.	Characterization and measurement of nanostructured copper-based electromagnetic wave absorber	Electromagnetics	2020	-	-	-
234	Singh A., Singh G., Bedi P.M.S.	Thiophene derivatives: A potent multitargeted pharmacological scaffold	Journal of Heterocyclic Chemistry	2020	-	5	-
235	Mahey S., Kumar R., Sharma M., Kumar V., Bhardwaj R.	A critical review on toxicity of cobalt and its bioremediation strategies	SN Applied Sciences	2020	-	4	-
236	Hans R., Kaur H.	Feature Selection Using Metaheuristic Algorithms: Concept, Applications and Population Based Comparison	2020 International Conference on Computational Performance Evaluation, ComPE 2020	2020	-	-	-
237	Jayachandran J.	The Media Coverage of Drugs and Alcohol in Punjab during COVID-19 Pandemic	Asian Politics and Policy	2020	-	-	-
238	Kaur J., Singh H., Singh A.	Fabrication and investigation of zinc oxide nanoflowers-based piezoelectric nanogenerator	IET Circuits, Devices and Systems	2020	-	2	-
239	Chauhan N.S., Punia A., Sohal S.K.	Insecticidal effects of phenolic compounds on the development of polyphagous spodoptera litura larvae	Allelopathy Journal	2020	-	-	-
240	Vohra R., Sawhney R.S., Kaur J., Kumar R.	Adenine based molecular junction as biosensor for detection of toxic phosgene gas	Journal of Molecular Modeling	2020	-	-	-
241	Dhiman P., Arora S.	A conceptual framework for identifying key employee branding dimensions: A study of hospitality industry	Journal of Innovation and Knowledge	2020	-	1	-
242	Kumari A., Kaur R.	A review on morpho-physiological traits of plants under phthalates stress and insights into their uptake and translocation	Plant Growth Regulation	2020	-	2	-
243	Agrawal D., Kaur B., Kaur Brar K., Chadha B.S.	An innovative approach of priming lignocellulosics with lytic polysaccharide mono-oxygenases prior to saccharification with glycosyl hydrolases can economize second generation ethanol process	Bioresource Technology	2020	-	2	-



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244	Singh J., Bahel S.	(BaxMg <sub>1-x</sub> (Ti <sub>0.95</sub> Sn <sub>0.05</sub> )O <sub>3</sub> (x = 0.025, 0.05, 0.075 and 0.1) solid solutions as effective Ku-band (12.4–18 GHz) shielders	Ceramics International	2020	-	2	-
245	Kaur H., Sood S.K.	Soft-computing-centric framework for wildfire monitoring, prediction and forecasting	Soft Computing	2020	-		-
246	Priya B., Malhotra J.	5GAuNetS: an autonomous 5G network selection framework for Industry 4.0	Soft Computing	2020	-	2	-
247	Singh H., Singh S., Singh A.	Punjabi adaptation of WHO's global physical activity questionnaire (GPAQ) in gurumukhi script: A validity and reliability study	Medico-Legal Update	2020	-	1	-
248	Singh H., Singh A.	Factors influencing web accessibility of corporate information: Indian evidence	International Journal of e-Business Research	2020	-	-	-
249	Datta R., Kaur A., Saraf I., Kaur M., Singh I.P., Chadha P., Kaur S.	Assessment of genotoxic and biochemical effects of purified compounds of <i>Alpinia galanga</i> on a polyphagous lepidopteran pest <i>Spodoptera litura</i> (Fabricius)	Phytoparasitica	2020	-		-
250	Sharma M., Sharma S.	The Rising Number of COVID-19 Cases Reflecting Growing Search Trend and Concern of People: A Google Trend Analysis of Eight Major Countries	Journal of Medical Systems	2020	-	2	-
251	Kaur A., Sudhakara Reddy M., Pati P.K., Kumar A.	Over-expression of Osmotin (OsmWS) gene of <i>Withania somnifera</i> in potato cultivar 'Kufri Chipsona 1' imparts resistance to <i>Alternaria solani</i>	Plant Cell, Tissue and Organ Culture	2020	-	2	-
252	Chawla A., Verma S., Godara S., Bhadu G.R., Singh A., Singh M.	Understanding Phase Segregation Using Rietveld Analysis and the Dielectric, Ferroelectric Properties of Ba(1-x)CaxTiO <sub>3</sub> Solid Solutions	Journal of Electronic Materials	2020	-	3	-
253	Prasher P., Baghra D., Singh D., Thakur S., Gill N.K., Kesavan A.K.	Molecular identification and phylogenetic relationship of Demodex mites based on mitochondrial 16S rDNA	Tropical Parasitology	2020	-	1	-
254	Thakur A., Nehra K., Arora S., Kaushal R.	Synthesis, characterization, DNA-interactions, antioxidant, antimicrobial and anticancer studies of mixed-ligand titanocene dichloride complexes	International Journal of Pharmaceutical Research	2020	-	-	-
255	Bansal S., Aggarwal M., Gill T.S.	Planar and Nonplanar Electron-Acoustic Solitary Waves in the Presence of Positrons	Plasma Physics Reports	2020	-	-	-
256	Kabra A., Salekar K., Kalanekar T., Salekar K.	Effect of jack knife stretching versus proprioceptive neuromuscular facilitation (Hold relax) stretching technique in asymptomatic individuals with hamstring tightness: A randomized clinical trial	Indian Journal of Forensic Medicine and Toxicology	2020	-	-	-



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257	Nazir S., Simnani S., Mishra R., Sharma T., Masood S.	Simultaneous measurements of radon, thoron and their progeny for inhalation dose assessment in indoors of Srinagar, J&K, India	Journal of Radioanalytical and Nuclear Chemistry	2020	-	4	-
258	Punia S., Sandhu K.S., Dhull S.B., Siroha A.K., Purewal S.S., Kaur M., Kidwai M.K.	Oat starch: Physico-chemical, morphological, rheological characteristics and its applications - A review	International Journal of Biological Macromolecules	2020	-	9	-
259	Grover A., Sheetal A., Dhasarathan V.	Performance analysis of mode division multiplexing based free space optics system incorporating on-off keying and polarization shift keying under dynamic environmental conditions	Wireless Networks	2020	-	5	-
260	Carol T T.T., Mohammed J., Bhargava R., Khan S., Mishra S., Godara S.K., Srivastava A.K.	Crystal structure refinement, optical properties, dielectric response, and impedance spectroscopy of Ni <sup>2+</sup> -Co <sup>2+</sup> substituted bismuth copper titanate (BCTO)	Materials Chemistry and Physics	2020	-	1	-
261	Sivakumar P., Singh M., Malhotra J., Dhasarathan V.	Performance analysis of 160 Gbit/s single-channel PDM-QPSK based inter-satellite optical wireless communication (IsOWC) system	Wireless Networks	2020	-	1	-
262	Gautam V., Sharma A., Arora S., Bhardwaj R., Ahmad A., Ahamad B., Ahmad P.	In-vitro antioxidant, antimutagenic and cancer cell growth inhibition activities of Rhododendron arboreum leaves and flowers	Saudi Journal of Biological Sciences	2020	-		-
263	Kaur A., Garg S., Shiekh B.A., Singh N., Singh P., Bhatti R.	In Silico Studies and in Vivo MAOAI nhibitory Activity of Coumarins Isolated from Angelica archangelica Extract: An Approach toward Antidepressant Activity	ACS Omega	2020	-	2	-
264	Kumar A., Mukhia S., Kumar N., Acharya V., Kumar S., Kumar R.	A Broad Temperature Active Lipase Purified From a Psychrotrophic Bacterium of Sikkim Himalaya With Potential Application in Detergent Formulation	Frontiers in Bioengineering and Biotechnology	2020	-	4	-
265	Kaur S., Arora S.	Role of perceived risk in online banking and its impact on behavioral intention: trust as a moderator	Journal of Asia Business Studies	2020	-	6	-
266	Thakker H.T., Dave V., Vakharia V., Singh S.	Fault Diagnosis of Ball Bearing Using Hilbert Huang Transform and LASSO Feature Ranking Technique	IOP Conference Series: Materials Science and Engineering	2020	-	1	-
267	Arora N., Singh B.	The long-run performance of SME IPOs in India: empirical evidence from Indian stock market	Journal of Asia Business Studies	2020	-		-
268	Sharma B., Gujral H.S.	Modifying the dough mixing behavior, protein & starch digestibility and antinutritional profile of minor millets by sprouting	International Journal of Biological Macromolecules	2020	-	5	-



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269	Kaur P., Kriti, Rahul, Kaur S., Kandasami A., Singh D.P.	Synchrotron-based VUV excitation-induced ultrahigh quality cool white light luminescence from Sm-doped ZnO	Optics Letters	2020	-	2	-
270	Bhatia I.S., Randhawa D.K.K.	Something more than graphene-Futuristic two-dimensional nanomaterials	Current Science	2020	-	2	-
271	Singh R., Bahel S., Narang S.B.	Structural, dielectric, reflection and optical characteristics of the rare-earth (Yb, Er, Dy and Eu) substituted M-phase $Li_{1+x-y}Nb_{1-x-3y}Ti_x+4yO_3$ solid solutions	Journal of Alloys and Compounds	2020	-		-
272	Chawla A., Singh A., Babu P.D., Singh M.	Magnetic ion oxidation state dependent magnetoelectric coupling strength in Fe doped BCT ceramics	RSC Advances	2020	-	1	-
273	Bhatia A., Makkar B.	Stage of development of a country and CSR disclosure – the latent driving forces	International Journal of Law and Management	2020	-	1	-
274	Kaur R.P.	Impact of Industry on the Forest Resources	Journal of Physics: Conference Series	2020	-	-	-
275	Thakur S., Kaur P.	Comparative Analysis of Neutron, Proton, Alpha and Beta Radiation Shielding Parameters of PES and PVDC	Journal of Physics: Conference Series	2020	-	-	-
276	Kaur P., Singh K.J., Thakur S.	Gamma-ray, Neutron and Beta Radiation Shielding Properties of $Bi_2O_3-Li_2O-MnO_2-B_2O_3$ Glasses	Journal of Physics: Conference Series	2020	-	-	-
277	Singh P., Singh N.	Step-up multiple comparison procedure for comparing several normal variances	Communications in Statistics: Simulation and Computation	2020	-	-	-
278	Godara S.K., Kaur S., Kaur V., Sood A.K., Singh M., Pushkarna I., Bhadu G.R., Chaudhari J.C.	Effect of co-substitution of $Zn^{2+}/Zr^{4+}$ on Surface Morphology, Structure and Magnetic Properties of $BaZn_xZr_xFe_{12-2x}O_{19}$	Journal of Physics: Conference Series	2020	-	-	-
279	Kaur P., Khanna A., Kaur N., Nayar P., Chen B.	Synthesis and structural characterization of alumina nanoparticles	Phase Transitions	2020	-	2	-
280	Getso R.S., Mohammed J., Tchouank Tekou Carol T., Mukhtar G., Halilu N., Sharma S., Srivastava A.K., Prasad N., Ahmad M., Basandrai D.	Structural and Dielectric Properties of $Cr^{3+}-Cu^{2+}$ Substituted Cobalt Ferrites	Journal of Physics: Conference Series	2020	-	1	-
281	Bhatia A., Mahendru M.	Is Institutional Environment the Only Force Behind Corporate Social Responsibility Disclosure? An Insight into Indian Companies	Indian Journal of Corporate Governance	2020	-		-



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282	Kaur A., Singh B., Kaur A., Singh N.	Changes in chemical properties and oxidative stability of refined vegetable oils during short-term deep-frying cycles	Journal of Food Processing and Preservation	2020	-	3	-
283	Singh B., Singh J.P., Kaur A., Singh N.	Phenolic composition, antioxidant potential and health benefits of citrus peel	Food Research International	2020	-	31	-
284	Singh B., Singh J., Singh J.P., Kaur A., Singh N.	Phenolic compounds in potato ( <i>Solanum tuberosum</i> L.) peel and their health-promoting activities	International Journal of Food Science and Technology	2020	-	4	-
285	Singh K.D., Sood S.K.	5G ready optical fog-assisted cyber-physical system for IoT applications	IET Cyber-Physical Systems: Theory and Applications	2020	-	8	-
286	Sharma V., Kumar R., Arora N., Singh S., Sharma N., Anand A., Jain S.K., Sharma S.	Effect of heat treatment on thermal and mechanical stability of NaOH-doped xanthan gum-based hydrogels	Journal of Solid State Electrochemistry	2020	-	1	-
287	Kaur M., Malhotra J., Kaur P.D.	A VANET-IoT based Accident Detection and Management System for the Emergency Rescue Services in a Smart City	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)	2020	-	2	-
288	Bala K., Kaur P.D.	Impact of Post Cloud Computing Paradigms on IoT	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)	2020	-	1	-
289	Arora N., Kaur P.D.	Augmenting Banking and FinTech with Intelligent Internet of Things Technology	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)	2020	-		-
290	Dogra M., Kaur J.	Capital Adequacy Compliance: Adoption of Basel I, II and III	SCMS Journal of Indian Management	2020	-		-
291	Rana S.B., Kaur H.	Design and fabrication of hexagonal antenna for wireless applications	International Journal of Information Technology (Singapore)	2020	-	1	-



Sr.No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	h-index	Citation Index	Number of citations excluding self citation
292	Chhabra A., Singh G., Kahlon K.S.	QoS-aware energy-efficient task scheduling on HPC cloud infrastructures using swarm-intelligence meta-heuristics	Computers, Materials and Continua	2020	-	1	-
293	Kaur H., Sood S.K.	Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting	IEEE Systems Journal	2020	-	1	-
294	Kaur I., Sharma M., Kaur S., Kaur A.	Ultra-sensitive electrochemical sensors based on self-assembled chelating dithiol on gold electrode for trace level detection of copper(II) ions	Sensors and Actuators, B: Chemical	2020	-	5	-
295	Kaur H., Gill B.S.	Comparative evaluation of physicochemical, nutritional and molecular interactions of flours from different cereals as affected by germination duration	Journal of Food Measurement and Characterization	2020	-	5	-
296	Kaur R., Banipal P.K., Banipal T.S.	Binding ability of sodium valproate with cationic surfactants and effect on micellization: calorimetric, surface tension, light scattering and spectroscopic approach	Journal of Thermal Analysis and Calorimetry	2020	-		-
297	Kaur N., Sood S.K., Verma P.	Cloud resource management using 3Vs of Internet of Big data streams	Computing	2020	-	1	-
298	Qidwai A., Annu, Nabi B., Kotta S., Narang J.K., Baboota S., Ali J.	Role of nanocarriers in photodynamic therapy	Photodiagnosis and Photodynamic Therapy	2020	-	3	-
299	Dogra P., Sharma R.R., Kaushal A.	Impact of online financial advertisements on Indian consumer's attitude: Moderating effect of perceived product innovativeness	Finance India	2020	-		-
300	Sharma S., Kumar S., Khajuria A., Ohri P., Kaur R., Kaur R.	Biocontrol potential of chitinases produced by newly isolated Chitinophaga sp. S167	World Journal of Microbiology and Biotechnology	2020	-	4	-
301	Sohal M.K., Mahajan A., Gasso S., Nahirniak S.V., Dontsova T.A., Singh R.C.	Rare earth-tuned oxygen vacancies in gadolinium-doped tin oxide for selective detection of volatile organic compounds	Journal of Materials Science: Materials in Electronics	2020	-	1	-
302	Sharma S., Sharma M., Singh G.	A chaotic and stressed environment for 2019-nCoV suspected, infected and other people in India: Fear of mass destruction and causality	Asian Journal of Psychiatry	2020	-	13	-
303	Singh D., Singh A.P., Singh D., Kesavan A.K., Arora S., Tiwary A.K., Bedi N.	Enhanced oral bioavailability and anti-diabetic activity of canagliflozin through a spray dried lipid based oral delivery: a novel paradigm	DARU, Journal of Pharmaceutical Sciences	2020	-	1	-
304	Kaur H., Sood S.K., Bhatia M.	Cloud-assisted green IoT-enabled comprehensive framework for wildfire monitoring	Cluster Computing	2020	-	3	-



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305	Singh A., Baghel U.S., Sinha M., Ashawat M.S.	Quantitative analysis of rosuvastatin calcium in bulk and solid pharmaceutical dosage forms using green and rapid fourier-transform infrared spectroscopic method	Indian Journal of Pharmaceutical Sciences	2020	-		-
306	Prakash V., Kumari A., Kaur H., Kumar M., Gupta S., Bala R.	Chemical constituents and biological activities of genus picrorhiza: An update	Indian Journal of Pharmaceutical Sciences	2020	-	-	-
307	Grover A., Sheetal A., Dhasarathan V.	Enhanced performance analysis of a hybrid spectrum sliced-wavelength division multiplexing-mode division multiplexing-orthogonal frequency division multiplexing based radio-over-free space optics	Transactions on Emerging Telecommunications Technologies	2020	-	2	-
308	Sharma E., Gulati A., Gulati A.	Statistical optimization of culture conditions of mesophilic gamma-glutamyl transpeptidase from Bacillus altitudinis IHB B1644	3 Biotech	2020	-		-
309	Saxena N., Agrawal H., Barick K.C., Ray D., Aswal V.K., Singh A., Yadav U.C.S., Dube C.L.	Thermal and microwave synthesized SPIONs: Energy effects on the efficiency of nano drug carriers	Materials Science and Engineering C	2020	-	2	-
310	Agrawal D., Basotra N., Balan V., Tsang A., Chadha B.S.	Discovery and Expression of Thermostable LPMOs from Thermophilic Fungi for Producing Efficient Lignocellulolytic Enzyme Cocktails	Applied Biochemistry and Biotechnology	2020	-	5	-
311	Kumar R., Prasad C., Namtak S., Kirti V., Azam R., Sharma A.	Aquatic plant diversity and physicochemical characteristics of headwater stream Bal Ganga, Garhwal Himalaya	Environment, Development and Sustainability	2020	-	-	-
312	Singh S., Parmar K.S., Kumar J., Makkhan S.J.S.	Development of new hybrid model of discrete wavelet decomposition and autoregressive integrated moving average (ARIMA) models in application to one month forecast the casualties cases of COVID-19	Chaos, Solitons and Fractals	2020	-	24	-
313	Sharma A., Kumar V., Shahzad B., Ramakrishnan M., Singh Sidhu G.P., Bali A.S., Handa N., Kapoor D., Yadav P., Khanna K., Bakshi P., Rehman A., Kohli S.K., Khan E.A., Parihar R.D., Yuan H., Thukral A.K., Bhardwaj R., Zheng B.	Photosynthetic Response of Plants Under Different Abiotic Stresses: A Review	Journal of Plant Growth Regulation	2020	-	49	-



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314	Kaur M., Chadha P., Kaur S., Kaur A., Kaur R.	Schizophyllum commune induced oxidative stress and immunosuppressive activity in Spodoptera litura	BMC Microbiology	2020	-	1	-
315	Singh J., Kumar S.	A Generalization of Bevelacqua's Irreducibility Criterion	American Mathematical Monthly	2020	-		-
316	Dhillon I.S., Singh D., Chahal H.S.	Physico-Chemical Properties of Soil as Influenced by Integrated Nutrient Management in Onion (Allium cepa L.) Crop	Indian Journal of Agricultural Research	2020	-		-
317	Kaur P., Bindra Narang S., Bahel S.	Complex permittivity, complex permeability and reflection loss of Co-Zr substituted La-Sr hexaferrites in 18–40 GHz frequency range	Journal of Magnetism and Magnetic Materials	2020	-	4	-
318	Kaur A., Jaiswal N., Raj R., Kumar B., Kapur S., Kumar D., Gahlay G.K., Mithu V.S.	Characterization of Cu <sup>2+</sup> and Zn <sup>2+</sup> binding sites in SUMO1 and its impact on protein stability	International Journal of Biological Macromolecules	2020	-	1	-
319	Singh S., Sharma A., Khajuria K., Singh J., Vig A.P.	Soil properties changes earthworm diversity indices in different agro-ecosystem	BMC Ecology	2020	-	4	-
320	Singh G., Kaur M., Singh D., Kesavan A.K., Kang T.S.	Antimicrobial Colloidal Complexes of Lysozyme with Bio-Based Surface Active Ionic Liquids in Aqueous Medium	Journal of Physical Chemistry B	2020	-	1	-
321	Kaur H., Singh B.P., Singh H., Kumar A., Nagpal A.K.	Gene content in solanaceous chloroplast genomes	Plant Cell Biotechnology and Molecular Biology	2020	-		-
322	Sharma P., Rashid M., Kaur S.	Novel enterocin E20c purified from Enterococcus hirae 20c synergised with $\beta$ -lactams and ciprofloxacin against Salmonella enterica	Microbial Cell Factories	2020	-	2	-
323	Bhatti S.S., Kumar V., Kumar A., Kirby J.K., Gouzos J., Correll R., Singh J., Sambyal V., Nagpal A.K.	Potential carcinogenic and non-carcinogenic health hazards of metal(loid)s in food grains	Environmental Science and Pollution Research	2020	-	-	-
324	Singh K.D., Sood S.K.	Optical fog-assisted cyber-physical system for intelligent surveillance in the education system	Computer Applications in Engineering Education	2020	-	4	-
325	Sharma S., Singh S., Singh R.C., Sharma S.	Structural transformation and room temperature ammonia sensing properties of TiS <sub>2</sub> nanostructures	SN Applied Sciences	2020	-	2	-
326	Singh M., Sheetal A., Singh H., Sawhney R.S., Kaur J.	Animal Hair-Based Triboelectric Nanogenerator (TENG): A Substitute for the Positive Polymer Layer in TENG	Journal of Electronic Materials	2020	-	3	-
327	Kaur S.	Effect of Religiosity and Moral Identity Internalization on Prosocial Behaviour	Journal of Human Values	2020	-		-



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328	Vohra R., Sawhney R.S., Singh K.P.	Contemplating charge transport by modeling of DNA nucleobases based nano structures	Current Applied Physics	2020	-		-
329	Kaur R., Kaur J., Kaur M., Kalotra V., Chadha P., Kaur A., Kaur A.	An endophytic <i>Penicillium oxalicum</i> isolated from Citrus limon possesses antioxidant and genoprotective potential	Journal of Applied Microbiology	2020	-	2	-
330	Kaur I., Shivani, Kaur P., Singh K.	2-(2'-Hydroxyphenyl)benzothiazole derivatives: Emission and color tuning	Dyes and Pigments	2020	-	4	-
331	Bains V., Kaur H., Badaruddoza	Association study of the single-nucleotide polymorphisms -3971G/A and +276G/T in the adiponectin gene with type 2 diabetes in a North Indian Punjabi population	Annals of Human Genetics	2020	-		-
332	Kaur A., Sood S.K.	Deep learning based drought assessment and prediction framework	Ecological Informatics	2020	-	1	-
333	Pubby K., Vijay Babu K., Bindra Narang S.	Magnetic, elastic, dielectric, microwave absorption and optical characterization of cobalt-substituted nickel spinel ferrites	Materials Science and Engineering B: Solid-State Materials for Advanced Technology	2020	-	15	-
334	Dar O.I., Sharma S., Singh K., Sharma A., Bhardwaj R., Kaur A.	Biochemical markers for prolongation of the acute stress of triclosan in the early life stages of four food fishes	Chemosphere	2020	-	2	-
335	Astanina M., Sheremet M., Mahabaleshwar U.S., Singh J.	Effect of porous medium and copper heat sink on cooling of heat-generating element	Energies	2020	-	1	-
336	Pal J., Kumar S., Kaur S., Malhi P.S., Kumar Y., Singh M., Singh A.	Study of the magnetic, electrical and magneto-dielectric properties and dielectric relaxation in 0.8BiFeO <sub>3</sub> -0.2Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> solid solution	Solid State Sciences	2020	-	3	-
337	Dhasarathan V., Singh M., Malhotra J.	Development of high-speed FSO transmission link for the implementation of 5G and Internet of Things	Wireless Networks	2020	-	10	-
338	Sharma S., Rabbani S.A., Narang J.K., Hyder Pottoo F., Ali J., Kumar S., Baboota S.	Role of Rutin Nanoemulsion in Ameliorating Oxidative Stress: Pharmacokinetic and Pharmacodynamics Studies	Chemistry and Physics of Lipids	2020	-	13	-
339	Tchouank Tekou Carol T., Mohammed J., Basandrai D., Godara S.K., Bhadu G.R., Mishra S., Aggarwal N., Narang S.B., Srivastava A.K.	X-band shielding of electromagnetic interference (EMI) by Co <sub>2</sub> Y barium hexaferrite, bismuth copper titanate (BCTO), and polyaniline (PANI) composite	Journal of Magnetism and Magnetic Materials	2020	-	7	-



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340	Malathy S., Singh M., Malhotra J., Vasudevan B., Dhasarathan V.	Modeling and performance investigation of 4 × 20 Gbps underwater optical wireless communication link incorporating space division multiplexing of Hermite Gaussian modes	Optical and Quantum Electronics	2020	-	1	-
341	Sharma M., Banipal P.K., Banipal T.S.	Hydration characteristics, structural effects and the taste quality of some polyhydroxy compounds in aqueous solutions of nicotinic acid (vitamin B3) at (288.15–318.15) K	Food Chemistry	2020	-	1	-
342	Shalini, Pankaj, Saha S.T., Kaur M., Oluwakemi E., Awolade P., Singh P., Kumar V.	Synthesis and: In vitro anti-proliferative evaluation of naphthalimide-chalcone/pyrazoline conjugates as potential SERMs with computational validation	RSC Advances	2020	-	3	-
343	Sabharwal N., Kaur H., Kaur A.	A Study of dimensions of brand equity of female buying behavior of cosmetic products	International Journal of Advanced Science and Technology	2020	-	-	-
344	Vashisht A., Gahlay G.K.	Using miRNAs as diagnostic biomarkers for male infertility: Opportunities and challenges	Molecular Human Reproduction	2020	-	4	-
345	Kaur P., Singh K.J., Kaur S., Kaur S., Singh A.P.	Sol-gel derived strontium-doped SiO <sub>2</sub> -CaO-MgO-P <sub>2</sub> O <sub>5</sub> bioceramics for faster growth of bone like hydroxyapatite and their in vitro study for orthopedic applications	Materials Chemistry and Physics	2020	-	2	-
346	Kaur N., Khanna A., Fábíán M., Dutt S.	Structural and electrical characterization of semiconducting xCuO-(100-x)TeO <sub>2</sub> glasses	Journal of Non-Crystalline Solids	2020	-	5	-
347	Mohammed J., Tchouank Tekou Carol T., Mukhtar G., Kumar V., Bhadu G.R., Godara S.K., Maji P.K., Srivastava A.K.	Phase structure evolution, crystal structure refinement, morphology, and electro-optical properties of heat-treated Ca <sub>0.9</sub> Ni <sub>0.1</sub> Cu <sub>2.9</sub> La <sub>0.1</sub> Ti <sub>4</sub> O <sub>12</sub>	Ceramics International	2020	-	3	-
348	Kaur J., Sawhney R.S., Singh H., Singh M.	Electricity nanogenerator from egg shell membrane: A natural waste bioproduct	International Journal of Green Energy	2020	-	4	-
349	Bhatia A., Kaur G.	De-escalation in the Progression of Trillion Dollar Economy: An Empirical Assessment of Indian Corporate Sector	Journal of Asia-Pacific Business	2020	-	-	-
350	Gupta N., Khanna A., Hirdesh, Dippel A.-C., Gutowski O.	Structure of bismuth tellurite and bismuth niobium tellurite glasses and Bi <sub>2</sub> Te <sub>4</sub> O <sub>11</sub> anti-glass by high energy X-ray diffraction	RSC Advances	2020	-	5	-



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352	Kaur H.K.S.	Type-ii fuzzy membership-based traffic congestion control for urban areas	International Journal of Scientific and Technology Research	2020	-	-	-
353	Bhinder S., Kaur A., Singh B., Yadav M.P., Singh N.	Proximate composition, amino acid profile, pasting and process characteristics of flour from different Tartary buckwheat varieties	Food Research International	2020	-	12	-
354	Kaur A., Sharma S., Saini M.	Code clone detection using machine learning techniques: A systematic literature review	International Journal of Open Source Software and Processes	2020	-	-	-
355	Kaur K., Gill B.S.	Sensory, physical and nutritional qualities of cookies and pinnis prepared from brown rice and wheat flour	Plant Archives	2020	-	-	-
356	Sharma P., Kaur S., Kaur S., Singh P.	Near-IR oxime-based solvatochromic perylene diimide probe as a chemosensor for Pd species and Cu <sup>2+</sup> ions in water and live cells	Photochemical and Photobiological Sciences	2020	-	3	-
357	Kaur N., Arora D.S., Kalia N., Kaur M.	Antibiofilm, antiproliferative, antioxidant and antimutagenic activities of an endophytic fungus <i>Aspergillus fumigatus</i> from <i>Moringa oleifera</i>	Molecular Biology Reports	2020	-	3	-
358	Sikri G., Sawhney R.S.	First principle approach to elucidate transport properties through l-glutamic acid-based molecular devices using symmetrical electrodes	Journal of Molecular Modeling	2020	-	-	-
359	Singh M., Malhotra J.	A high-speed long-haul wavelength division multiplexing-based inter-satellite optical wireless communication link using spectral-efficient 2-D orthogonal modulation scheme	International Journal of Communication Systems	2020	-	6	-
360	Ghumman A., Singh N., Kaur A.	Influence of sprouting on phenolic composition and starch characteristics of lentil and horse gram	International Journal of Food Science and Technology	2020	-	-	-



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361	Sharma R., Kaur R.	Diallyl phthalate-triggered oxidative stress in Spirodela polyrhiza L. Schleiden: physiological effects and role of antioxidant defence system	International Journal of Environmental Science and Technology	2020	-	2	-
362	Sharma G., Kalra S.	Advanced lightweight multi-factor remote user authentication scheme for cloud-IoT applications	Journal of Ambient Intelligence and Humanized Computing	2020	-	5	-
363	Goyal S., Singh I.R., Vanita V.	Novel mutation in MKKS/BBS6 linked with arRP and polydactyly in a family of North Indian origin	Clinical and Experimental Ophthalmology	2020	-	-	-
364	Singh P., Dwivedi Y.K., Kahlon K.S., Pathania A., Sawhney R.S.	Can twitter analytics predict election outcome? An insight from 2017 Punjab assembly elections	Government Information Quarterly	2020	-	12	-
365	Aggarwal M., Goyal V., Kashyap R., Kumar H., Gill T.S.	Spatiotemporal evolution of Gaussian laser pulse in weakly relativistic magnetized cold quantum plasma	Optik	2020	-	1	-
366	Kohli S.K., Bhardwaj A., Bhardwaj V., Sharma A., Kalia N., Landi M., Bhardwaj R.	Therapeutic potential of brassinosteroids in biomedical and clinical research	Biomolecules	2020	-	2	-
367	Singh P., Dwivedi Y.K., Kahlon K.S., Sawhney R.S., Alalwan A.A., Rana N.P.	Smart Monitoring and Controlling of Government Policies Using Social Media and Cloud Computing	Information Systems Frontiers	2020	-	21	-
368	Arora I., Kumar P., Sathiaraj T.S., Thangaraj R.	Structure, optical and electrical properties of sol-gel derived Zn <sub>1.5</sub> xSn <sub>1.5</sub> xO <sub>4</sub> nanostructured films for optoelectronic applications	Thin Solid Films	2020	-	5	-
369	Sondhi S.P., Er., Sandhu V., Goyal S.	Identification and analysis of the impact of organizational support on the work-life balance of the employees in punjab state power corporation limited	International Journal of Advanced Science and Technology	2020	-	-	-
370	Gaurav M., Mr., Sandhu V., Kaur S.	Impact of GST on impulsive buying behavior of consumer on FMCG (fast moving consumer goods)	International Journal of Advanced Science and Technology	2020	-	-	-
371	Kaur M., Nakra R., Arora B., Li C.-B., Sahoo B.K.	Accurate determination of energy levels, hyperfine structure constants, lifetimes and dipole polarizabilities of triply ionized tin isotopes	Journal of Physics B: Atomic, Molecular and Optical Physics	2020	-	1	-
372	Singh P., Sharma P.	Nano cuboids: Impact of 8-hydroxyquinoline on tryptophan properties and its applications	Tetrahedron Letters	2020	-	1	-



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373	Arora N., Singh B.	Corporate governance and underpricing of small and medium enterprises IPOs in India	Corporate Governance (Bingley)	2020	-	2	-
374	Kuila B., Sharma P., Mahajan D., Singh P., Bhargava G.	Rhodium-catalysed chemo- and regio-selective [3 + 2+2] cycloadditions of bis(methylenecyclopropanes) and alkynes: Synthesis of spirocyclic 5-7 condensed cycloheptenes	Synthetic Communications	2020	-	-	-
375	Kaur L., Deol H., Kumar M., Bhalla V.	Integrating CuO-Fe <sub>2</sub> O <sub>3</sub> Nanocomposites and Supramolecular Assemblies of Phenazine for Visible-Light Photoredox Catalysis	Chemistry - An Asian Journal	2020	-	-	-
376	Sarin N., Singh K.J., Kaur H., Kaur R., Singh J.	Preliminary studies of the effect of doping of chromium oxide in SiO <sub>2</sub> -CaO-P <sub>2</sub> O <sub>5</sub> bioceramics for bone regeneration applications	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2020	-	1	-
377	Minhas A.S., Singh G., Singh J., Kankar P.K., Singh S.	A novel method to classify bearing faults by integrating standard deviation to refined composite multi-scale fuzzy entropy	Measurement: Journal of the International Measurement Confederation	2020	-	9	-
378	Bhatia A., Singh Buttar H., Arora R., Singh B., Singh A., Kaur S., Arora S.	Antiproliferative Effects of Roylea cinerea (D. Don) Baillon Leaves in Immortalized L6 Rat Skeletal Muscle Cell Line: Role of Reactive Oxygen Species Mediated Pathway	Frontiers in Pharmacology	2020	-	-	-
379	Singh J., Bahel S.	Synthesis of single phase MgTiO <sub>3</sub> and influence of Sn <sup>4+</sup> substitution on its structural, dielectric and electrical properties	Journal of Alloys and Compounds	2020	-	6	-
380	Kaur A., Sood S.K.	Cloud-Fog based framework for drought prediction and forecasting using artificial neural network and genetic algorithm	Journal of Experimental and Theoretical Artificial Intelligence	2020	-	6	-
381	Dogra N., Sharma M., Sharma A., Keshavarzi A., Minakshi, Bhardwaj R., Thukral A.K., Kumar V.	Pollution assessment and spatial distribution of roadside agricultural soils: a case study from India	International Journal of Environmental Health Research	2020	-	16	-
382	Kumari S., Bhinder S., Singh B., Kaur A., Singh N.	Effect of buckwheat incorporation on batter fermentation, rheology, phenolic, amino acid composition and textural properties of idli	LWT	2020	-	2	-
383	Sharma M., Chadha P., Sharma P.	DNA alterations in blood cells of Channa punctatus after acute exposure to 4-Nonylphenol	Indian Journal of Animal Sciences	2020	-	-	-



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384	Kaur P., Singh J.	Price formation in Indian gold market: Analysing the role of gold Exchange Traded Funds (ETFs) against spot and futures markets	IIMB Management Review	2020	-		-
385	Parmar Y., Ghuman M.K., Mann B.J.S.	The Match-up Between Celebrity Associations and Product Type	Journal of Creative Communications	2020	-	2	-
386	Bhatia I.S., Randhawa D.K.K.	Verilog-A modeling of a silicene-based p-n junction logic device: simulation and applications	Journal of Computational Electronics	2020	-	3	-
387	Singh M., Malhotra J.	Modeling and Performance Analysis of 400 Gbps CO-OFDM Based Inter-satellite Optical Wireless Communication (IsOWC) System Incorporating Polarization Division Multiplexing with Enhanced Detection	Wireless Personal Communications	2020	-	6	-
388	Singh M., Malhotra J.	Performance Comparison of Different Modulation Schemes in High-Speed MDM Based Radio Over FSO Transmission Link Under the Effect of Atmospheric Turbulence Using Aperture Averaging	Wireless Personal Communications	2020	-	8	-
389	Mann B.J.S., Kaur H.	Sustainable Supply Chain Activities and Financial Performance: An Indian Experience	Vision	2020	-	2	-
390	Sharma A., Kalotra S., Bajaj P., Singh H., Kaur G.	Butanol Extract of <i>Tinospora cordifolia</i> Ameliorates Cognitive Deficits Associated with Glutamate-Induced Excitotoxicity: A Mechanistic Study Using Hippocampal Neurons	NeuroMolecular Medicine	2020	-	6	-
391	Kaur P., Bahel S., Narang S.B.	Electromagnetic Wave Absorption Properties of La-Doped Strontium M-Type Hexagonal Ferrite in a 18–40 GHz Frequency Range	Journal of Electronic Materials	2020	-	3	-
392	Kaur A., Sood S.K.	Ten years of disaster management and use of ICT: a scientometric analysis	Earth Science Informatics	2020	-	5	-
393	Banipal P.K., Sohal P., Arti S., Banipal T.S.	Elucidation of Interactions between l-Ascorbic Acid and Mixed Micellar Aggregates of Catanionic {Sodium Dodecylsulfate + Cetyltrimethylammonium Bromide} Surfactants via Physicochemical and Spectroscopic Studies	Journal of Surfactants and Detergents	2020	-	3	-
394	Hans R., Kaur H.	Hybrid binary Sine Cosine Algorithm and Ant Lion Optimization (SCALO) approaches for feature selection problem	International Journal of Computational Materials Science and Engineering	2020	-	2	-



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395	Chilakala R.R., Manchikalapudi A.L., Kumar A., Sunkaria A.	Sulforaphane Attenuates A $\beta$ Oligomers Mediated Decrease in Phagocytic Activity of Microglial Cells	Neuroscience	2020	-	2	-
396	Kaur P., Singh K.J., Yadav A.K., Kaur S., Kaur R., Kaur S.	Growth of bone like hydroxyapatite and cell viability studies on CeO <sub>2</sub> doped CaO-P <sub>2</sub> O <sub>5</sub> -MgO-SiO <sub>2</sub> bioceramics	Materials Chemistry and Physics	2020	-	7	-
397	Thapar S.S., Sarangal H.	Quantifying reusability of software components using hybrid fuzzy analytical hierarchy process (FAHP)-Metrics approach	Applied Soft Computing Journal	2020	-	4	-
398	Kumar A., Chae P.S., Kumar S.	A dual-responsive anthrapyridone-triazole-based probe for selective detection of Ni <sup>2+</sup> and Cu <sup>2+</sup> : A mimetic system for molecular logic gates based on color change	Dyes and Pigments	2020	-	8	-
399	Sharma M., Kumar V., Bhardwaj R., Thukral A.K.	Tartaric Acid Mediated Cr Hyperaccumulation and Biochemical alterations in seedlings of <i>Hordeum vulgare</i> L.	Journal of Plant Growth Regulation	2020	-	3	-
400	Singh T., Singh J., Sharma S.	Re-joining of authorized nodes in MANETs using EGSR scheme and detection of internal attacks using 2ACK shceme	International Journal of Information Technology (Singapore)	2020	-		-
401	Singh M., Malhotra J., Mani Rajan M.S., Dhasarathan V., Aly M.H.	Performance evaluation of 6.4 Tbps dual polarization quadrature phase shift keying Nyquist-WDM superchannel FSO transmission link: Impact of different weather conditions	Alexandria Engineering Journal	2020	-	11	-
402	Grover A., Sheetal A., Dhasarathan V.	20Gbit/s-40 GHz OFDM based LEO-GEO Radio over Inter-satellite optical wireless communication (Ro-IsOWC) system using 4-QAM modulation	Optik	2020	-	2	-
403	Chandra P., Sharma R.K., Arora D.S.	Antioxidant compounds from microbial sources: A review	Food Research International	2020	-	17	-
404	Singh H., Kaur J., Arora R., Mannan R., Buttar H.S., Arora S., Singh B.	Ameliorative potential of <i>Argyrea speciosa</i> against CCI- induced neuropathic pain in rats: Biochemical and histopathological studies	Journal of Ethnopharmacology	2020	-	2	-
405	Singh P., Sharma R.K.	Development of informative genic SSR markers for genetic diversity analysis of <i>Picrorhiza kurroa</i>	Journal of Plant Biochemistry and Biotechnology	2020	-	1	-
406	Tarun T., Randhawa D.K.K., Singh P., Choudhary B.C., Walia G.K., Kaur N.	Analysis of uric acid adsorption on armchair silicene nanoribbons: a DFT study	Journal of Molecular Modeling	2020	-		-



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407	Rani S., Marwaha A., Marwaha S., Bindra S., Chavali M., Reddy P.N.	Synthesis and Validation of a Cu Meta-Based Wideband Microwave Absorber on an Antenna Array	Journal of Electronic Materials	2020	-		-
408	Kaur H., Paruthi M., Islam J., Hollebeek L.D.	The role of brand community identification and reward on consumer brand engagement and brand loyalty in virtual brand communities	Telematics and Informatics	2020	-	30	-
409	Kaur H., Marwaha A., Singh C., Narang S.B., Jotania R., Bai Y., Mishra S.R., Singh D., Sombra A.S.B., Ghimire M., Dhruv P.	Tailoring of Electromagnetic Absorption in Substituted Hexaferrites from 8.2 GHz to 12.4 GHz	Journal of Electronic Materials	2020	-	4	-
410	Prasher P., Sharma M., Mudila H., Gupta G., Sharma A.K., Kumar D., Bakshi H.A., Negi P., Kapoor D.N., Chellappan D.K., Tambuwala M.M., Dua K.	Emerging trends in clinical implications of bio-conjugated silver nanoparticles in drug delivery	Colloids and Interface Science Communications	2020	-	14	-
411	Singh L., Fontinha D., Francisco D., Mendes A.M., Prudêncio M., Singh K.	Molecular Design and Synthesis of Ivermectin Hybrids Targeting Hepatic and Erythrocytic Stages of Plasmodium Parasites	Journal of Medicinal Chemistry	2020	-	2	-
412	Singh N., Singh P.	A closed testing procedure for comparison between successive variances	Journal of Applied Statistics	2020	-		-
413	Kapoor D., Bhardwaj R.	Cadmium stress responses in Brassica juncea L. Plants through histochemical and qualitative approaches	Plant Cell Biotechnology and Molecular Biology	2020	-	2	-
414	Kaur R.P., Sharma A., Sharma A.K.	Impact of environment toxin on phytoplankton-zooplankton dynamics	International Journal of Control and Automation	2020	-	1	-
415	Sharma S., Sharma R., Kumar P., Thangaraj R., Asokan K., Mian M.	Effect of gamma irradiation on structure and photoconductivity of amorphous Sb <sub>30</sub> Se <sub>70</sub> chalcogenide films	Journal of Non-Crystalline Solids	2020	-	1	-
416	Dhiman S., Ahmad M., Singla N., Kumar G., Singh P., Luxami V., Kaur N., Kumar S.	Chemodosimeters for optical detection of fluoride anion	Coordination Chemistry Reviews	2020	-	16	-
417	Kaur A., Singh B.	Disentangling the reputation – performance paradox: Indian evidence	Journal of Indian Business Research	2020	-	1	-



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418	Sharma P., Singh P.	A perylene diimide-based near-IR ratiometric sensor for detection of Cu <sup>2+</sup> ions: Ensemble for discrimination of CN <sup>-</sup> and S <sup>2-</sup> ions	Analytical Methods	2020	-	7	-
419	Shalini, Legac J., Adeniyi A.A., Kisten P., Rosenthal P.J., Singh P., Kumar V.	Functionalized Naphthalimide-4-aminoquinoline Conjugates as Promising Antiplasmodials, with Mechanistic Insights	ACS Medicinal Chemistry Letters	2020	-	4	-
420	Kaur N., Kaur S.	Dynamic triangular localization based security aware protocol for wireless sensor networks	International Journal of Scientific and Technology Research	2020	-		-
421	Kaur R., Kaur S.	Non dominated sorting genetic algorithm based energy aware clustering protocol	International Journal of Scientific and Technology Research	2020	-		-
422	Mudhar J.K., Kalra S., Malhotra J.	An Efficient Blockchain Based Authentication Scheme to Secure Fog Enabled IoT Devices	Indo - Taiwan 2nd International Conference on Computing, Analytics and Networks, Indo-Taiwan ICAN 2020 - Proceedings	2020	-		-
423	Singh A., Kaur N.	Macroeconomic determinants of gold prices: A bounds testing approach	Indian Journal of Finance	2020	-		-
424	Kaur N., Kaur R., Saini N.S.	Ion-acoustic cnoidal waves with the density effect of spin-up and spin-down degenerate electrons in a dense astrophysical plasma	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	2020	-	4	-
425	Kumar Grover L., Kaur A.	Correction: 'A new randomized response model'	Journal of the Royal Statistical Society. Series B: Statistical Methodology	2020	-	1	-
426	Singh G., Kaur J., Kaur M., Singh P., Bhatti R.	Anti-nociceptive and anti-inflammatory effect of imperatorin: evidences for involvement of COX-2, iNOS, NFκB and inflammatory cytokines	International Journal of Neuroscience	2020	-	6	-
427	Singh J., Kaur P., Bajaj R.	Bicritical states in a vertical layer of fluid under two-frequency temperature modulation	Physical Review E	2020	-	1	-
428	Singh G., Kaur M., Kang T.S., Aswal V.K.	Aqueous colloidal systems of bovine serum albumin and functionalized surface active ionic liquids for material transport	RSC Advances	2020	-	2	-
429	Kaur A., Sood S.K.	Cloud-Centric IoT-Based Green Framework for Smart Drought Prediction	IEEE Internet of Things Journal	2020	-	4	-



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430	Arora M., Singh J., Bajaj R.	Nonlinear Stability of Natural Convection in an Inclined Fluid Layer	International Journal of Applied and Computational Mathematics	2020	-	3	-
431	Kumar K., Kaur S., Kaur S., Bhargava G., Kumar S., Singh P.	A multifunctional perylenediimide-based dual-analyte chemodosimeter for specific and rapid detection of H <sub>2</sub> S and Pd <sup>0</sup> in water, biofluids, live cells and solid state	Journal of Photochemistry and Photobiology A: Chemistry	2020	-	5	-
432	Verma P., Sood S.K., Kaur H.	A Fog-Cloud based cyber physical system for Ulcerative Colitis diagnosis and stage classification and management	Microprocessors and Microsystems	2020	-	3	-
433	Sharma P., Kumar K., Kaur S., Kaur S., Bhargava G., Kumar S., Singh P.	Near-IR discriminative detection of H <sub>2</sub> S and Cysteine with 7-nitro-2,1,3-benzoxadiazole-perylenediimide conjugate in water, live cells and solid state: Mimicking IMP, INH and NOR/OR complimentary logic	Journal of Photochemistry and Photobiology A: Chemistry	2020	-	8	-
434	Sharma A., Nagpal A.K.	Contamination of vegetables with heavy metals across the globe: hampering food security goal	Journal of Food Science and Technology	2020	-	4	-
435	Singh R.C., Singh P.	Comparing several normal variances with a control using sample quasi range	Communications in Statistics: Simulation and Computation	2020	-	-	-
436	Sharma M., Prasher P.	An epigrammatic status of the 'Azole'-based antimalarial drugs	RSC Medicinal Chemistry	2020	-	5	-
437	Kaur R., Khanna A., Hirdesh, Dippel A.-C., Gutowski O., González F., González-Barriuso M.	Structure of strontium tellurite glass, anti-glass and crystalline phases by high-energy X-ray diffraction, reverse Monte Carlo and Rietveld analysis	Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials	2020	-	5	-
438	Bala R., Kaur A., Golobič A., Prakash V.	Synthesis and characterization of s-fac-[Co(dien) <sub>2</sub> ](4-np) <sub>3</sub> (4-npH)·2H <sub>2</sub> O containing symmetric, [4-np...H...4-np] <sup>-</sup> and unsymmetric, [4-np-H...4-np] <sup>-</sup> dimers of 4-nitrophenolate (4-np <sup>-</sup> )	Polyhedron	2020	-	-	-
439	Rani A., Singh G.I., Kaur R., Palma G., Perumal S., Kaur M., Ebenezer O., Awolade P., Singh P., Kumar V.	Azide-alkyne cycloaddition en route to ferrocenyl-methoxy-methyl-isatin-conjugates: Synthesis, anti-breast cancer activities and molecular docking studies	Journal of Organometallic Chemistry	2020	-	2	-
440	Pandey A., Singh Saini B., Singh B., Sood N.	Quality controlled ECG data compression based on 2D discrete cosine coefficient filtering and iterative JPEG2000 encoding	Measurement: Journal of the International Measurement Confederation	2020	-	7	-
441	Kumar A., Vanita V., Walia A., Chae P.S., Kumar S.	Pyridoanthrone-based chromo-fluorogenic amphiphiles for selective CN <sup>-</sup> detection and their bioimaging application	Sensors and Actuators, B: Chemical	2020	-	6	-



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443	Saxena N., Dholia N., Akkireddy S., Singh A., Yadav U.C.S., Dube C.L.	Efficient microwave synthesis, functionalisation and biocompatibility studies of SPION based potential nano-drug carriers	Applied Nanoscience (Switzerland)	2020	-	3	-
444	Singh H., Kalsi S.S., Sidhu T.S.	Analysis of cold spray-coated boiler-tube material in a chlorine-based corrosive environment at 900°C	Materials and Corrosion	2020	-		-
445	Gautam V., Sharma P., Bakshi P., Arora S., Bhardwaj R., Paray B.A., Alyemeni M.N., Ahmad P.	Effect of rhododendron arboreum leaf extract on the antioxidant defense system against chromium (Vi) stress in vigna radiata plants	Plants	2020	-	4	-
446	Kaur N., Mahajan A., Bhullar V., Singh D.P., Saxena V., Debnath A.K., Aswal D.K., Devi D., Singh F., Chopra S.	Ag ion implanted TiO <sub>2</sub> photoanodes for fabrication of highly efficient and economical plasmonic dye sensitized solar cells	Chemical Physics Letters	2020	-	7	-
447	Sanduja M., Gupta J., Singh H., Pagare P.P., Rana A.	Uracil-coumarin based hybrid molecules as potent anti-cancer and anti-bacterial agents	Journal of Saudi Chemical Society	2020	-	7	-
448	Purewal S.S., Salar R.K., Bhatti M.S., Sandhu K.S., Singh S.K., Kaur P.	Solid-state fermentation of pearl millet with <i>Aspergillus oryzae</i> and <i>Rhizopus azygosporus</i> : effects on bioactive profile and DNA damage protection activity	Journal of Food Measurement and Characterization	2020	-	6	-
449	Kaur S., Kumar A., Thakur S., Kumar K., Sharma R., Sharma A., Singh P., Sharma U., Kumar S., Landi M., Brestič M., Kaur S.	Antioxidant, antiproliferative and apoptosis-inducing efficacy of fractions from cassia fistula l. Leaves	Antioxidants	2020	-	6	-
450	Sharma A., Soares C., Sousa B., Martins M., Kumar V., Shahzad B., Sidhu G.P.S., Bali A.S., Asgher M., Bhardwaj R., Thukral A.K., Fidalgo F., Zheng B.	Nitric oxide-mediated regulation of oxidative stress in plants under metal stress: a review on molecular and biochemical aspects	Physiologia Plantarum	2020	-	31	-
451	Pahwa C., Narang S.B., Sharma P.	Composition dependent magnetic and microwave properties of exchange-coupled hard/soft nanocomposite ferrite	Journal of Alloys and Compounds	2020	-	11	-
452	Kalia N., Singh J., Kaur M.	Microbiota in vaginal health and pathogenesis of recurrent vulvovaginal infections: A critical review	Annals of Clinical Microbiology and Antimicrobials	2020	-	10	-



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453	Gurtu A., Akhtar N., Verma M., Singh K., Moyle-Heyrman G., Bakshi M.S.	Functionalized Iron Oxide-Metal Hybrid Nanoparticles for Protein Extraction from Complex Fluids	Industrial and Engineering Chemistry Research	2020	-	1	-
454	Kumar V., Syan A.S., Kaur A., Hundal B.S.	Determinants of farmers' decision to adopt solar powered pumps	International Journal of Energy Sector Management	2020	-	3	-
455	Kumari P., Kaur S., Kaur J., Bhatti R., Singh P.	Modification of the lead molecule: Tryptophan and piperidine appended triazines reversing inflammation and hyperalgesia in rats	Bioorganic and Medicinal Chemistry	2020	-	2	-
456	Singh D., Arora R., Bhatia A., Singh H., Singh B., Arora S.	Molecular targets in cancer prevention by 4-(methylthio)butyl isothiocyanate - A comprehensive review	Life Sciences	2020	-	2	-
457	Sharma B., Kaur S., Legac J., Rosenthal P.J., Kumar V.	Synthesis, anti-plasmodial and cytotoxic evaluation of 1H-1,2,3-triazole/acyl hydrazide integrated tetrahydro- $\beta$ -carboline-4-aminoquinoline conjugates	Bioorganic and Medicinal Chemistry Letters	2020	-	8	-
458	Siroha A.K., Punia S., Kaur M., Sandhu K.S.	A novel starch from Pongamia pinnata seeds: Comparison of its thermal, morphological and rheological behaviour with starches from other botanical sources	International Journal of Biological Macromolecules	2020	-	1	-
459	Sandhu K.S., Sharma L., Kaur M., Kaur R.	Physical, structural and thermal properties of composite edible films prepared from pearl millet starch and carrageenan gum: Process optimization using response surface methodology	International Journal of Biological Macromolecules	2020	-	10	-
460	Das A., Singh D., Saini C.P., Ahuja R., Kaur A., Aliukov S.	Orbital hybridization-induced band offset phenomena in Ni: XCd1-xO thin films	Nanoscale	2020	-	3	-
461	Sharma R.R., Kaur B.	E-mail viral marketing: modeling the determinants of creation of "viral infection"	Management Decision	2020	-	-	-
462	Sarin N., Singh K.J., Kaur R., Singh J.	Manganese and Zinc Doped CaO-SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> Bioceramics for Recovery from Bone Defects	Integrated Ferroelectrics	2020	-	1	-
463	Hans R., Kaur H., Kaur N.	Opposition-based Harris Hawks optimization algorithm for feature selection in breast mass classification	Journal of Interdisciplinary Mathematics	2020	-	6	-
464	Kumar V., Sharma A., Kumar R., Bhardwaj R., Kumar Thukral A., Rodrigo-Comino J.	Assessment of heavy-metal pollution in three different Indian water bodies by combination of multivariate analysis and water pollution indices	Human and Ecological Risk Assessment	2020	-	23	-
465	Randhawa J.S., Sharma R., Chhina G.S., Kaur M.	Effect of integrated nutrient management on productivity and quality of malt barley ( <i>Hordeum distichon</i> L.)	Agricultural Science Digest	2020	-	-	-



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466	Anand N., Singh D., Singh G., Kaur L., Dhawan R.K., Kaur N.	3D printing technology in pharmaceutical delivery system: Recent advancement in innovative approach [Farmasötik Taşıyıcı Sistemlerde 3B Baskı Teknolojisi: Yenilikçi Yaklaşımda Son Gelişmeler]	Fabad Journal of Pharmaceutical Sciences	2020	-	-	-
467	Singh Z.	Serum hTERT level as sensitive biomarker with prognostic implications in breast, lung, gastric and liver cancers	Malaysian Journal of Medicine and Health Sciences	2020	-	-	-
468	Singh J., Singh B.	Inhibition of post-mortem fish muscle softening and degradation using legume seed proteinase inhibitors	Journal of Food Science and Technology	2020	-	1	-
469	Mahajan A., Singh G., Devgan S., Sidhu S.S.	EDM performance characteristics and electrochemical corrosion analysis of Co-Cr alloy and duplex stainless steel: A comparative study	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2020	-	-	-
470	Kaur R., Kaur G., Singh A.P., Dhingra G.S.	Five polypore species new to India	Czech Mycology	2020	-	-	-
471	Singh S., Sharma S.	Ammonia sensing using MoS <sub>2</sub> /WO <sub>3</sub> composite obtained via top-down approach	Materials Today: Proceedings	2020	-	-	-
472	Shenoy S., Sathe A., Sathe P.K.	Pedobarographic analysis of balance in sporting and non-sporting population	Series on Biomechanics	2020	-	-	-
473	Kaur R., Randhawa G.	Employee engagement and its predictors: Literature review and a proposed model	International Journal of Business and Globalisation	2020	-	-	-
474	Kaur S., Singh M.L., Priyanka, Singh M.	Performance comparison of all-optical logic gates using electro-optic effect in MZI-based waveguide switch at 1.46 $\mu\text{m}$	Journal of Optical Communications	2020	-	-	-
475	Puri S., Singh S., Sohal S.K.	Growth retarding effect of curcumin on Bactrocera cucurbitae (Coquillett) larvae	Archives of Phytopathology and Plant Protection	2020	-	-	-
476	Kaur R., Kaur R.	Symptoms, risk factors, diagnosis and treatment of urinary tract infections	Postgraduate Medical Journal	2020	-	-	-
477	Kaur R., Kaur Chahal K., Saini M.	Understanding community participation and engagement in open source software Projects: A systematic mapping study	Journal of King Saud University - Computer and Information Sciences	2020	-	-	-
478	Kaur R., Kaur R.	Microbial Diversity and their Biofilm Formation Potential in Pipes of Water Distribution System	Asian Journal of Water, Environment and Pollution	2020	-	-	-
479	Kaur R., Randhawa G.	Supportive supervisor to curtail turnover intentions: do employee engagement and work-life balance play any role?	Evidence-based HRM	2020	-	-	-



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480	Kaur R., Singh B.	The Impact of CEOs' Characteristics on Corporate Leverage: Indian Scenario	Vision	2020	-	-	-
481	Arora N., Singh B.	Do Prestigious Underwriters Shape the Performance of SME IPOs in India?	Global Business Review	2020	-	-	-
482	Sandhu S., Arora S.	Customers' usage behaviour of e-banking services: Interplay of electronic banking and traditional banking	International Journal of Finance and Economics	2020	-	-	-
483	Kaur M., Chadha P., Kaur S., Kaur A.	Effect of Aspergillus flavus on lipid peroxidation and activity of antioxidant enzymes in midgut tissue of Spodoptera litura larvae	Archives of Phytopathology and Plant Protection	2020	-	-	-
484	Virdi A.S., Singh N., Bains K.K., Kaur A.	Effect of photoperiod and growth media on yield and antioxidant properties of wheatgrass juice of Indian wheat varieties	Journal of Food Science and Technology	2020	-	1	-
485	Priya B., Malhotra J.	Error rate performance of potential multicarrier waveforms and coding techniques for 5G	International Journal of Sensors, Wireless Communications and Control	2020	-	-	-
486	Kaur K., Sharma S., Kahlon K.S.	A middleware for polyglot persistence and data portability of big data PaaS cloud applications	Computers, Materials and Continua	2020	-	-	-
487	Ahuja M.S.	Using community detection technique in recommender system	Advances in Mathematics: Scientific Journal	2020	-	-	-
488	Rani M., Manchanda P.	Numerical solution of nonlinear oscillatory differential equations using shifted second kind Chebyshev wavelet method	Italian Journal of Pure and Applied Mathematics	2020	-	-	-
489	Singh S., Singh R.C., Sharma S.	Room temperature ammonia sensing using MoSe <sub>2</sub> nanostructures	Materials Today: Proceedings	2020	-	1	-
490	Kaur H., Sohal S.	Political brand endorsers, political brand preference, and political brand equity: A mediated moderated model	Journal of Marketing Communications	2020	-	-	-
491	Pandit K., Kaur S., Kumar A., Bhardwaj R., Kaur S.	trans-Anethole Abrogates Cell Proliferation and Induces Apoptosis through the Mitochondrial-Mediated Pathway in Human Osteosarcoma Cells	Nutrition and Cancer	2020	-	-	-
492	Singh S., Dogra N., Sharma S.	A sensitive H <sub>2</sub> S sensor using MoS <sub>2</sub> /WO <sub>3</sub> composite	Materials Today: Proceedings	2020	-	4	-
493	Singh S., Kumar S., Sharma S.	Room temperature high performance ammonia sensor using MoS <sub>2</sub> /SnO <sub>2</sub> nanocomposite	Materials Today: Proceedings	2020	-	5	-
494	Oberoi D.P.S., Singh T.P., Sogi D.S.	In Vivo Bioavailability of Lycopene from Watermelon (Citrullus lanatus Thunb) Coloring	Nutrition and Cancer	2020	-	-	-



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495	Grover A., Sheetal A.	2*20 GBIT/S MDM-OFDM-IAOWC link with enhanced detection	Advances in Mathematics: Scientific Journal	2020	-	-	-
496	Grover A., Sheetal A.	Hybrid mode-wavelength division multiplexing based ofdm-ro-fso link	Advances in Mathematics: Scientific Journal	2020	-	-	-
497	Saini N.S., Kaur M., Singh K.	Heavy nucleus acoustic periodic waves in a degenerate relativistic magneto-rotating quantum plasma	Waves in Random and Complex Media	2020	-	1	-
498	Singh M., Malhotra J.	4x20gbit/s-40GHzOFDM based radio over FSO transmission link incorporating hybrid wavelength division multiplexing-mode division multiplexing of LG and HG modes with enhanced detection	Optoelectronics and Advanced Materials, Rapid Communications	2020	-	6	-
499	Kalotra S., Saini V., Singh H., Sharma A., Kaur G.	5-Nonyloxytryptamine oxalate-embedded collagen-laminin scaffolds augment functional recovery after spinal cord injury in mice	Annals of the New York Academy of Sciences	2020	-	4	-
500	Kaur P., Singh G., Kaur P.	Classification and Validation of MRI Brain Tumor Using Optimised Machine Learning Approach	Lecture Notes in Electrical Engineering	2020	-	1	-
501	Kumari A., Kaur R.	Di-n-butyl phthalate-induced phytotoxicity in hordeum vulgare seedlings and subsequent antioxidant defense response	Biologia Plantarum	2020	-	2	-
502	Kaur H., Kaur H., Singh A.	Multi-agent based recommender system for Netflix	Lecture Notes in Networks and Systems	2020	-	-	-
503	Pathania A., Kaur K., Singh P.	Efficient vm migration policy in cloud computing environment	Lecture Notes in Networks and Systems	2020	-	-	-
504	Singh M., Malhotra J.	40Gbit/s-80Ghz hybrid MDM-OFDM-multibeam based RoFSO transmission link under the effect of adverse weather conditions with enhanced detection	Optoelectronics and Advanced Materials, Rapid Communications	2020	-	7	-
505	Grover A., Sheetal A.N.U.	A cost-effective high-capacity OFDM based rofso transmission link incorporating hybrid SS-WDM-MDM of hermite gaussian modes	Optoelectronics and Advanced Materials, Rapid Communications	2020	-	2	-
506	Mahajan P.	Recent advances in generative adversarial networks: An analysis along with its outlook	Proceedings of the Confluence 2020 - 10th International Conference on Cloud Computing, Data Science and Engineering	2020	-	-	-
507	Bhatia S., Malhotra J.	CFRF: Cloud forensic readiness framework – A dependable framework for forensic readiness in cloud computing environment	Lecture Notes on Data Engineering and Communications Technologies	2020	-	-	-



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508	Arora N., Singh B.	Do Female Directors Signal Indian SME IPOs Quality? Evidence From a Quantile Regression Approach	Global Business Review	2020	-	1	-
509	Chouhan H.S.	Cold Spray Coating for Corrosive Conditions	Minerals, Metals and Materials Series	2020	-		-
510	Kaur R., Singh B.	A Hybrid Image Steganography Using Chaotic Maps in DCT Domain	Advances in Intelligent Systems and Computing	2020	-		-
511	Kaur H., Sandhu V.	Farmers' awareness level towards solar energy products	International Journal of Psychosocial Rehabilitation	2020	-	1	-
512	Sandhu V., Kaur H.	Marketing of agricultural produce: An attitudinal analysis of farmers	Journal of Critical Reviews	2020	-	1	-
513	Dhillon J., Sandhu V.	E-waste management strategy in organizations - A conceptual framework	Journal of Critical Reviews	2020	-		-
514	Kaur T., Kaur K.	TensorFlow-based semantic techniques for multi-cloud application portability and interoperability	Lecture Notes in Networks and Systems	2020	-	1	-
515	Kaur M., Kaur K.	Enhanced security mechanism in cloud based on DNA excess 3 codes	Lecture Notes in Networks and Systems	2020	-	-	-
516	Gotter P., Kaur K.	Enhancing high availability for NoSQL database systems using failover techniques	Lecture Notes in Networks and Systems	2020	-	-	-
517	Kumar V., Hundal B.S., Syan A.S.	Factors affecting customers' attitude towards solar energy products	International Journal of Business Innovation and Research	2020	-	1	-
518	Bharti S., Singh H.	Proactively managing clones inside an IDE: a systematic literature review	International Journal of Computers and Applications	2020	-	1	-
519	Beri A., Kaur G., Singh P., Banipal P.K., Banipal T.S.	Volumetric, acoustic, viscometric, calorimetric and spectroscopic studies to elucidate the effects of citrate and tartrate based food preservatives on the solvation behaviors of acidic amino acids at different temperatures	Food and Function	2020	-	1	-
520	Sharma R., Kaur R.	Elucidating physiological and biochemical alterations in giant duckweed (Spirodela polyrhiza L. Schleiden) under diethyl phthalate stress: Insights into antioxidant defence system	PeerJ	2020	-	1	-
521	Kaur J., Kumar R., Vohra R., Sawhney R.S.	A pursuit to design highly sensitive fullerene-based sensors: adsorption and dissociation phenomenon of toxic sulfur gases on B40 fullerene	Journal of Molecular Modeling	2020	-	3	-



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522	Kaur K., Sharma S., Kahlon K.S.	Towards a model-driven framework for data and application portability in paas clouds	Advances in Intelligent Systems and Computing	2020	-	1	-
523	Bharti S., Singh H.	Comprehending code fragment in code clones: A literature-based perspective	Lecture Notes in Electrical Engineering	2020	-		-
524	Arora N., Kaur P.D.	A Bolasso based consistent feature selection enabled random forest classification algorithm: An application to credit risk assessment	Applied Soft Computing Journal	2020	-	13	-
525	Kaur J., Sharma P., Kaur R., Kaur S., Kaur A.	Assessment of alpha glucosidase inhibitors produced from endophytic fungus <i>Alternaria destruens</i> as antimicrobial and antibiofilm agents	Molecular Biology Reports	2020	-	2	-
526	Aggarwal N., Narang S.B.	X-Band Microwave Analysis and Characterization of Zinc Substituted Nickel Ferrites Prepared by Sol-Gel Citrate Route	Journal of Electronic Materials	2020	-	4	-
527	Singh M., Malhotra J.	Performance Comparison of $2 \times 20$ Gbit/s-40 GHz OFDM Based RoFSO Transmission Link Incorporating MDM of Hermite Gaussian Modes Using Different Modulation Schemes	Wireless Personal Communications	2020	-	7	-
528	Negi A., Kaur P.	Top-k% concept stratagem for classifying semantic web services	Advances in Intelligent Systems and Computing	2020	-		-
529	Mittal S., Ashhar M.U., Qizilbash F.F., Qamar Z., Narang J.K., Kumar S., Ali J., Baboota S.	Ligand conjugated targeted nanotherapeutics for treatment of neurological disorders	Current Pharmaceutical Design	2020	-	1	-
530	Dogra A., Narang R.S., Narang J.K.	Recent advances in nanotherapeutic interventions for the treatment of alzheimer's disease	Current Pharmaceutical Design	2020	-		-
531	Angurala M., Bala M., Bamber S.S.	Performance Analysis of Modified AODV Routing Protocol with Lifetime Extension of Wireless Sensor Networks	IEEE Access	2020	-	6	-
532	Singh H., Bala M., Bamber S.S.	Taxonomy of routing protocols in wireless sensor networks: A survey	International Journal on Emerging Technologies	2020	-	1	-
533	Sharma S., Tiwari S.K., Singh S.	The rotary machine fault detection by hybrid method based on local mean decomposition and fluctuation based dispersion entropy	Materials Today: Proceedings	2020	-	-	-
534	Bhardwaj R., Soni P.	Examining the dynamics of customer adoption of retail loyalty programmes in India	International Journal of Electronic Customer Relationship Management	2020	-	-	-



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535	Dhiman S., Handa N., Sharma N., Kaur R., Ohri P., Bhardwaj R.	Role of Biochar in Heavy Metal Toxicity in Plants	Nanotechnology in the Life Sciences	2020	-	-	-
536	Behl R., Arora H.	CMMSE: A novel scheme having seventh-order convergence for nonlinear systems	Journal of Computational and Applied Mathematics	2020	-	-	-
537	Vohra J., Soni P.	Maternal Mediation of Retail Food Promotions Directed at Children	Journal of International Food and Agribusiness Marketing	2020	-	-	-
538	Kang L.S., Kaur G.	Contextual Support and Career Aspirations of Working Women	South Asian Journal of Human Resources Management	2021	-	-	-
539	Bala R., Sachdeva D., Kumar M., Prakash V.	Advances in coordination chemistry of hexaurea complexes of chromium(III)	Journal of Coordination Chemistry	2020	-	-	-
540	Singh A., Thakur S., Singh H., Singh H., Kaur S., Kaur S., Dudi R., Mondhe D.M., Jain S.K.	Novel Vitamin E TPGS based docetaxel nanovesicle formulation for its safe and effective parenteral delivery: Toxicological, pharmacokinetic and pharmacodynamic evaluation	Journal of Liposome Research	2020	-	-	-
541	Sharma M., Chadha P.	From genotoxicity induction to recovery in different organs in fish channa punctatus after sub chronic exposure to 4-nonylphenol	Toxicology International	2020	-	-	-
542	Khanna A., Kaur A., Fábíán M., Hirdesh, Kaur A.	Structure of lead silicate glasses and its correlation with photoelastic properties	Indian Journal of Physics	2020	-	-	-
543	Bedi J., Kaur K.	Understanding factors affecting technical debt	International Journal of Information Technology (Singapore)	2020	-	-	-
544	Kaur J., Kaur V., Pakade Y.B., Katnoria J.K.	A study on water quality monitoring of Buddha Nullah, Ludhiana, Punjab (India)	Environmental Geochemistry and Health	2020	-	1	-
545	Sobti J., Singh S.K.	Seismic response of bentonite enhanced soils to be used as fabricated liner in engineered landfills	Lecture Notes in Civil Engineering	2020	-	-	-
546	Bansal T., Kaur H., Kaur S., Kaur S.	Investigation of anticancer and antitubercular activity of some medicinal plants	Plant Archives	2020	-	-	-
547	Ravleen, Kumar Godara S., Kaur B., Kaur V., Kumar Sood A., Singh Malhi P., Ram Bhadu G., Pushkarna I., Singh M.	Characterization of M-type barium hexaferrite synthesized using potatoes as natural fuel	Materials Today: Proceedings	2020	-	2	-



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548	Singh M., Sappal A.S.	Radio over fiber (RoF) link modelling using cross term memory polynomial	Journal of Optical Communications	2020	-		-
549	Sahil, Sood S.K.	Fog-Cloud centric IoT-based cyber physical framework for panic oriented disaster evacuation in smart cities	Earth Science Informatics	2020	-	4	-
550	Kumar V., Syan A.S., Kaur K.	A structural equation modeling analysis of factors driving customer purchase intention towards solar water heater	Smart and Sustainable Built Environment	2020	-	1	-
551	Singh H., Thakur S., Sahajpal N.S., Singh H., Singh A., Sohal H.S., Jain S.K.	Recent advances in the novel formulation of docosahexaenoic acid for effective delivery, associated challenges and its clinical importance	Current Drug Delivery	2020	-		-
552	Parmar Y., Mann B.J.S., Ghuman M.K.	Impact of celebrity endorser as in-store stimuli on impulse buying	International Review of Retail, Distribution and Consumer Research	2020	-	2	-
553	Singh A., Thakur S., Sharma T., Kaur M., Sahajpal N.S., Aurora R., Jain S.K.	Harmonious biomaterials for development of in situ approaches for locoregional delivery of anti-cancer drugs: Current trends	Current Medicinal Chemistry	2020	-	1	-
554	Majumdar A., Debnath T., Biswas A., Sood S.K., Baishnab K.L.	An Energy Efficient e-Healthcare Framework Supported by Novel EO- $\mu$ GA (Extremal Optimization Tuned Micro-Genetic Algorithm)	Information Systems Frontiers	2020	-	-	-
555	Singh D., Singh A.P., Singh D., Kesavan A.K., Tiwary A.K., Bedi N.	Polymeric Precipitation Inhibitor-Based Solid Supersaturable SMEDD Formulation of Canagliflozin: Improved Bioavailability and Anti-diabetic Activity	Journal of Pharmaceutical Innovation	2020	-	-	-
556	Kour A., Sambyal V., Guleria K., Singh N.R., Uppal M.S., Manjari M., Sudan M.	Screening of brca1 variants c.190t>c, 1307delt, g.5331g>a and c.2612c>t in breast cancer patients from north india	Genetics and Molecular Biology	2020	-	1	-
557	Hans R., Kaur H.	Quasi-opposition-Based Multi-verse Optimization Algorithm for Feature Selection	Lecture Notes in Networks and Systems	2020	-	-	-
558	Kaur B., Kaur J., Pandey S.K., Joshi S.	E-service Quality: Development and Validation of the Scale	Global Business Review	2020	-	3	-
559	Mann B.J.S., Parmar Y., Ghuman M.K.	A New Scale to Capture the Multidimensionality of Celebrity Image	Global Business Review	2020	-	2	-
560	Khanna A., Koley S.	Comparison of anthropometric profile and handgrip strength between inter-university volleyball players and a reference group	Biomedical Human Kinetics	2020	-	1	-
561	Singh C.J., Kaur S., Jain M.	Unreliable server retrial G-queue with bulk arrival, optional additional service and delayed repair	International Journal of Operational Research	2020	-	1	-



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562	Chopra A., Sachdeva A., Bhardwaj A.	Prevalent general and preventive maintenance practices in Indian process industry	International Journal of Productivity and Quality Management	2020	-	-	-
563	Kaur J., Sambyal V., Guleria K., Singh N.R., Uppal M.S., Manjari M., Sudan M.	Association of XRCC1, XRCC2 and XRCC3 gene polymorphism with esophageal cancer risk	Clinical and Experimental Gastroenterology	2020	-	1	-
564	Gupta V., Guleri R., Gupta M., Kaur N., Kaur K., Kumar P., Anand M., Kaur G., Pati P.K.	Anti-neuroinflammatory potential of Tylophora indica (Burm. F) Merrill and development of an efficient in vitro propagation system for its clinical use	PLoS ONE	2020	-	1	-
565	Singh K., Kaur P., Singla S.K., Kaur G.	Performance evaluation of an all-optical multicasting strategy based on cross-gain modulation (XGM) in a single semiconductor optical amplifier (SOA)	Optoelectronics and Advanced Materials, Rapid Communications	2020	-	-	-
566	Singh M., Sappal A.S.	Performance Comparison Between Different Dispersion Compensation Methods in an Optical Link	Advances in Intelligent Systems and Computing	2020	-	-	-
567	Soni N., Saini I., Singh B.	Integer Wavelet Transform-Based ECG Steganography for Hiding Patients' Confidential Information in e-Healthcare Systems	Advances in Intelligent Systems and Computing	2020	-	2	-
568	Kumari M., Sharma R., Sheetal A.	A Review on Hybrid WSN-NGPON2 Network for Smart World	Advances in Intelligent Systems and Computing	2020	-	1	-
569	Sood S.K., Kaur S., Chahal K.K.	An intelligent framework for monitoring dengue fever risk using LDA-ANFIS	Journal of Ambient Intelligence and Smart Environments	2020	-	3	-
570	Gupta R., Malik S.S.	Single particle spectrum of a nucleon in the harmonic oscillator mean field with spin-orbit coupling-A semiclassical view	Revista Mexicana de Fisica	2020	-	-	-
571	Rajput S., Kaur T., Arora S., Kaur R.	Heavy metal concentration and mutagenic assessment of pond water samples: A case study from India	Polish Journal of Environmental Studies	2020	-	2	-
572	Gautam K., Puri V., Tromp J.G., Nguyen N.G., Van Le C.	Internet of Things (IoT) and Deep Neural Network-Based Intelligent and Conceptual Model for Smart City	Advances in Intelligent Systems and Computing	2020	-	6	-
573	Pubby K., Sharma P., Narang S.B.	Structural, magnetic, dielectric, microwave absorption, and optical characterization of Ni <sub>0.1</sub> Co <sub>0.9</sub> (MnZr) <sub>x</sub> Fe <sub>2-2x</sub> O <sub>4</sub> /Ba <sub>y</sub> Sr <sub>1-y</sub> Fe <sub>12</sub> O <sub>19</sub> nanocomposites	Journal of Materials Science: Materials in Electronics	2020	-	2	-



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574	Kaur G., Singh J.V., Gupta M.K., Bhagat K., Gulati H.K., Singh A., Bedi P.M.S., Singh H., Sharma S.	Thiazole-5-carboxylic acid derivatives as potent xanthine oxidase inhibitors: design, synthesis, in vitro evaluation, and molecular modeling studies	Medicinal Chemistry Research	2020	-	5	-
575	Thakur A., Singh P., Biswal S., Kumar N., Jha C., Singh G., Kaur C., Wadhwa S., Kumar R.	Drug delivery through nose: A noninvasive technique for brain targeting	Journal of Reports in Pharmaceutical Sciences	2020	-	-	-
576	Dhaliwal S.S., Singh J., Taneja P.K., Mandal A.	Remediation techniques for removal of heavy metals from the soil contaminated through different sources: a review	Environmental Science and Pollution Research	2020	-	23	-
577	Malhotra A., Singh Minhas A., Singh S., Zuo M.J., Kumar R., Kankar P.K.	Bearing fault diagnosis based on flexible analytical wavelet transform and fuzzy entropy approach	Materials Today: Proceedings	2020	-	-	-
578	Thakur S., Singh A., Sharma R., Aurora R., Jain S.K.	Biosurfactants as a novel additive in pharmaceutical formulations: Current trends and future implications	Current Drug Metabolism	2020	-	-	-
579	Singh H., Singh S., Singh A., Baker J.S.	Physical activity levels among the adults of Majha region of Punjab, India: A cross-sectional study	American Journal of Human Biology	2020	-	-	-
580	Prakash V., Kaur H., Kumari A., Kumar M., Bala R., Gupta S.	Phytochemicals and biological studies on <i>Cycas revoluta</i> Thunb.: a review	Advances in Traditional Medicine	2020	-	-	-
581	Bhatia M., Sood S., Sood V.	A novel quantum-inspired solution for high-performance energy-efficient data acquisition from IoT networks	Journal of Ambient Intelligence and Humanized Computing	2020	-	-	-
582	Brar K.K., Chadha B.S., Brar S.K., Singh P.	Biotechnological Strategies for Enhanced Production of Biofuels from Lignocellulosic Biomass	Green Energy and Technology	2020	-	1	-
583	Chawla A., Singh A., Babu P.D., Singh M.	Impact of transition metal oxidation state on the multiferroic properties and magnetoelectric coupling strength of BST ceramics	Journal of Asian Ceramic Societies	2020	-	1	-
584	Kamal R., Kumar R., Kumar V., Bhardwaj J.K., Saraf P., Kumar A., Pandit K., Kaur S., Chetti P., Beura S.	Diacetoxy iodobenzene mediated regioselective synthesis and characterization of novel [1,2,4]triazolo[4,3-a]pyrimidines: apoptosis inducer, antiproliferative activities and molecular docking studies	Journal of Biomolecular Structure and Dynamics	2020	-	-	-
585	Sharma M., Chadha P., Sharma P.	DNA damage in spleen as a indicator of genotoxicity in <i>Channa punctatus</i> exposed to 4-nonylphenol	Journal of Environmental Biology	2020	-	2	-



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586	Katyal M., Singh N., Viridi A.S., Kaur A., Ahlawat A.K., Singh A.M., Bajaj R.	Comparative analysis of native and defatted flour from hard, extraordinarily soft, and medium-hard wheat varieties for protein solvation, pasting, mixing, and dough rheological behavior	Journal of Food Science	2020	-	2	-
587	Kuila B., Naikoo R., Mahajan D., Singh P., Bhargava G.	Nickel(0)-Catalyzed [3+2]-Cycloadditions of Bis(alkylidenecyclopropanes) with Diazenes: A Facile Synthesis of Functionalized Pyrazolidine-1,2-dicarboxylates	Synlett	2020	-	1	-
588	Rai R., Basotra N., Kaur B., Di Falco M., Tsang A., Chadha B.S.	Exoproteome profile reveals thermophilic fungus Crassicarpon thermophilum (strain 6GKB; syn. Corynascus thermophilus) as a rich source of cellobiose dehydrogenase for enhanced saccharification of bagasse	Biomass and Bioenergy	2020	-	2	-
589	Aulakh J.K., Lobana T.S., Sood H., Arora D.S., Garcia-Santos I., Kaur M., Jasinski J.P.	Synthesis, structures, and novel antimicrobial activity of silver(I) halide complexes of imidazolidine-2-thiones	Polyhedron	2020	-	3	-
590	Kohli S.K., Handa N., Bali S., Khanna K., Arora S., Sharma A., Bhardwaj R.	Current scenario of Pb toxicity in plants: Unraveling plethora of physiological responses	Reviews of Environmental Contamination and Toxicology	2020	-	13	-
591	Kaur M., Kumar A., Mehra R., Kaur I.	Quantitative assessment of exposure of heavy metals in groundwater and soil on human health in Reasi district, Jammu and Kashmir	Environmental Geochemistry and Health	2020	-	14	-
592	Kour J., Khanna K., Bakshi P., Sharma I., Ohri P., Mir B.A., Kapoor N., Bhardwaj R.	Role of Beneficial Microbes in the Molecular Phytotoxicity of Heavy Metals	Nanotechnology in the Life Sciences	2020	-		-
593	Singh H., Singh H., Sahajpal N.S., Paul S., Kaur I., Jain S.K.	Sub-chronic and chronic toxicity evaluation of 7-methylxanthine: a new molecule for the treatment of myopia	Drug and Chemical Toxicology	2020	-		-
594	Kolupaev Y.E., Karpets Y.V., Yastreb T.O., Shemet S.A., Bhardwaj R.	Antioxidant system and plant cross-adaptation against metal excess and other environmental stressors	Metal Toxicity in Higher Plants	2020	-		-
595	Goel B., Sharma A., Tripathi N., Bhardwaj N., Sahu B., Kaur G., Singh B., Jain S.K.	In-vitro antitumor activity of compounds from Glycyrrhiza glabra against C6 glioma cancer cells: identification of natural lead for further evaluation	Natural Product Research	2020	-	1	-
596	Kaur R., Singh J., Kapoor R., Kaur M.	Putative functional non-coding polymorphisms in SELP significantly modulate sP-selectin levels, arterial stiffness and type 2 diabetes mellitus susceptibility	BMC Endocrine Disorders	2020	-		-



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597	Rani A., Kumar S., Legac J., Adeniyi A.A., Awolade P., Singh P., Rosenthal P.J., Kumar V.	Design, synthesis, heme binding and density functional theory studies of isoindoline-dione-4-aminoquinolines as potential antiplasmodials	Future Medicinal Chemistry	2020	-	5	-
598	Singh P., Randhawa D.K.K., Tarun, Choudhary B.C., Walia G.K., Kaur N.	First principles investigation on armchair zinc oxide nanoribbons as uric acid sensors	Journal of Molecular Modeling	2020	-		-
599	Singh A.D., Sharma P., Kohli S.K., Kumar P., Singh R., Arora P., Sharma P., Kaur R., Sharma A., Bhardwaj R.	Role of Plant Growth Regulators (PGRs) in Mitigation of Heavy Metal Phytotoxicity in Plants	Nanotechnology in the Life Sciences	2020	-		-
600	Souri Z., Khanna K., Karimi N., Ahmad P.	Silicon and Plants: Current Knowledge and Future Prospects	Journal of Plant Growth Regulation	2020	-	6	-
601	Khanna K., Kohli S.K., Sharma A., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ahmad P.	Histochemical and physicochemical studies reveal improved defense in tomato under Cd stress with rhizobacterial supplementation	Plant and Soil	2020	-		-
602	Sharma A., Kapoor D., Wang J., Shahzad B., Kumar V., Bali A.S., Jasrotia S., Zheng B., Yuan H., Yan D.	Chromium bioaccumulation and its impacts on plants: An overview	Plants	2020	-	37	-
603	Khanna K., Kapoor D., Sharma P., Bakshi P., Sharma P., Saini P., Ohri P., Mir B.A., Kaur R., Bhardwaj R.	Plant-microbe interactions under adverse environment	Plant Ecophysiology and Adaptation under Climate Change: Mechanisms and Perspectives I: General Consequences and Plant Responses	2020	-	1	-
604	Sharma A., Kumar V., Kumar R., Kohli S.K., Yadav P., Kapoor D., Khan E.A., Parihar R.D., Shahzad B., Thukral A.K., Bhardwaj R.	Role of plant growth regulators in ameliorating heavy metal caused oxidative stress in plants: An update	Metal Toxicity in Higher Plants	2020	-		-
605	Bali S., Kaur P., Jamwal V.L., Gandhi S.G., Sharma A., Ohri P., Bhardwaj R., Ali M.A., Ahmad P.	Seed priming with jasmonic acid counteracts root knot nematode infection in tomato by modulating the activity and expression of antioxidative enzymes	Biomolecules	2020	-	4	-



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606	Sareen B., Thapa P., Joshi R., Bhattacharya A.	Proteome Analysis of the Gametophytes of a Western Himalayan Fern <i>Diplazium maximum</i> Reveals Their Adaptive Responses to Changes in Their Micro-Environment	Frontiers in Plant Science	2019	-		-
607	Kaur S., Randhawa D.K.K., Narang S.B.	Strain dependence of the thermoelectric performance of porous armchair silicene nanoribbons	Journal of Materials Research	2019	-		-
608	Carol T. T.T., Mohammed J., Bhat B.H., Mishra S., Godara S.K., Srivastava A.K.	Effect of Cr–Bi substitution on the structural, optical, electrical and magnetic properties of strontium hexaferrites	Physica B: Condensed Matter	2019	-	8	-
609	Roopa, Kumar N., Kumar M., Bhalla V.	Design and Applications of Small Molecular Probes for Calcium Detection	Chemistry - An Asian Journal	2019	-	4	-
610	Beri A., Kaur R., Banipal P.K., Banipal T.S.	Expliciting the {Ciprofloxacin Hydrochloride + (Glycine/ l -Isoleucine)} Interactions in Aqueous Solution over the Temperature range T = 288.15-323.15 K and at Pressure p = 1 × 10 <sup>5</sup> Pa: Volumetric, Acoustic, Calorimetric, and Absorption studies	Journal of Chemical and Engineering Data	2019	-	1	-
611	Kaur P., Singh K.J., Kurudirek M., Thakur S.	Study of environment friendly bismuth incorporated lithium borate glass system for structural, gamma-ray and fast neutron shielding properties	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2019	-	40	-
612	Khullar V., Bala M., Singh H.P.	Interactive video-player to improve social smile in individuals with autism spectrum disorder	Advances in Autism	2019	-		-
613	Singh Z., Singh I.	CTAB Surfactant Assisted and High pH Nano-Formulations of CuO Nanoparticles Pose Greater Cytotoxic and Genotoxic Effects	Scientific Reports	2019	-	8	-
614	Singh J., Bahel S.	Electromagnetic interference (EMI) shielding and microwave dielectric properties of (Ba <sub>x</sub> Mg <sub>1-x</sub> )(Ti <sub>0.95</sub> Sn <sub>0.05</sub> )O <sub>3</sub> {x = 0.025 and 0.05} solid solutions in Ku-band	2019 IEEE MTT-S International Microwave and RF Conference, IMARC 2019	2019	-		-
615	Singh K., Saini N.S.	Effect of Anisotropic Pressure on Electron Acoustic Oscillatory and Monotonic Shocks in Superthermal Magnetoplasma	Radio Science	2019	-	2	-
616	Samiksha, Singh D., Kesavan A.K., Sohal S.K.	Exploration of anti-insect potential of trypsin inhibitor purified from seeds of <i>Sapindus mukorossi</i> against <i>Bactrocera cucurbitae</i>	Scientific Reports	2019	-	5	-
617	Singh M., Malhotra J.	Performance comparison of M-QAM and DQPSK modulation schemes in a 2 × 20 Gbit/s–40 GHz hybrid MDM–OFDM-based radio over FSO transmission system	Photonic Network Communications	2019	-	16	-



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618	Grover L.K., Kaur A.	An Efficient Scrambled Estimator of Population Mean of Quantitative Sensitive Variable Using General Linear Transformation of Non-sensitive Auxiliary Variable	Communications in Mathematics and Statistics	2019	-	1	-
619	Sharma M., Jasrotia S., Ohri P., Manhas R.K.	Nematicidal potential of Streptomyces antibioticus strain M7 against Meloidogyne incognita	AMB Express	2019	-	3	-
620	Virdi A.S., Singh N., Pal P., Kaur P., Kaur A.	Evaluation of head and broken rice of long grain Indica rice cultivars: Evidence for the role of starch and protein composition to head rice recovery	Food Research International	2019	-	1	-
621	Sharma B., Gujral H.S.	Modulation in quality attributes of dough and starch digestibility of unleavened flat bread on replacing wheat flour with different minor millet flours	International Journal of Biological Macromolecules	2019	-	4	-
622	Pubby K., Bindra Narang S.	Ka band absorption properties of substituted nickel spinel ferrites: Comparison of open-circuit approach and short-circuit approach	Ceramics International	2019	-	8	-
623	Behl A., Mishra P.C.	Structural insights into the binding mechanism of Plasmodium falciparum exported Hsp40-Hsp70 chaperone pair	Computational Biology and Chemistry	2019	-	1	-
624	Kaur S., Kaur I.	Self-assembly of p-Aminothiophenol on Gold Surface: Application for Impedimetric and Potentiometric Sensing of Cobalt (II) Ions – A Comparative Study	Electroanalysis	2019	-	4	-
625	Kaur T., Rani R., Manhas R.K.	Biocontrol and plant growth promoting potential of phylogenetically new Streptomyces sp. MR14 of rhizospheric origin	AMB Express	2019	-	9	-
626	Kaur J., Sharma A., Sharma M., Kumari Manhas R., Kaur S., Kaur A.	Effect of $\alpha$ -glycosidase inhibitors from endophytic fungus Alternaria destruens on survival and development of insect pest Spodoptera litura Fab. and fungal phytopathogens	Scientific Reports	2019	-	3	-
627	Kumar V., Bhatti S.S., Kaur S., Katnoria J.K., Nagpal A.K.	Assessment of tumor inducing potential of lead using crown gall tumor disc bioassay	Nucleus (India)	2019	-	-	-
628	Kataria M., Singh Z., Kumar M., Bhalla V.	'Metal free' fluorescent anionic assemblies: Efficient platform for detection of electron deficient nitroaromatics and cationic dyes	Dyes and Pigments	2019	-	-	-
629	Shiekh B.A., Kaur D., Kaur R.	Probing non-covalent interactions of phosphine and arsine derivatives: an energy decomposition analysis using localized molecular orbitals	Structural Chemistry	2019	-	-	-
630	Kahlon N.K., Chahal K.K., Narang S.B.	A weakest link-driven global QoS adjustment approach for optimizing the execution of a composite web service	Knowledge and Information Systems	2019	-	-	-



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631	Arora M., Kaur A.	Azolla pinnata, Aspergillus terreus and Eisenia fetida for enhancing agronomic value of paddy straw	Scientific Reports	2019	-	5	-
632	Sood A.K., Kaur H., Banipal T.S.	Interactions in the mixed micelles of monomeric and gemini surfactants: Influence of some co-solvents as a function of temperature	Arabian Journal of Chemistry	2019	-	7	-
633	Khullar V., Singh H.P., Bala M.	IoT based assistive companion for hypersensitive individuals (ACHI) with autism spectrum disorder	Asian Journal of Psychiatry	2019	-	2	-
634	Parihar R.D., Singh D., Sohal S.K., Kesavan A.K., Ohri P., Pankaj	Molecular characterization and study of abiotic soil parameters to understand the natural habitat preference of entomopathogenic nematode distolabrellus veechi isolates	Indian Journal of Nematology	2019	-	1	-
635	Sharma R., Kumari A., Rajput S., Nishu, Arora S., Rampal R., Kaur R.	Accumulation, morpho-physiological and oxidative stress induction by single and binary treatments of fluoride and low molecular weight phthalates in Spirodela polyrhiza L. Schleiden	Scientific Reports	2019	-	3	-
636	Saini S., Kumar R., Chawla J., Kaur I.	Adsorption of bivalent lead ions from an aqueous phase system: Equilibrium, thermodynamic, kinetics, and optimization studies	Water Environment Research	2019	-	3	-
637	Kaur H., Arora S.	Demographic influences on consumer decisions in the banking sector: evidence from India	Journal of Financial Services Marketing	2019	-	2	-
638	Dogra P., Sharma R.R.	Modelling the Effects of Financial Services Advertising on Financial Product Purchase: An Empirical Validation	Vision	2019	-		-
639	Behl A., Kumar V., Bisht A., Panda J.J., Hora R., Mishra P.C.	Cholesterol bound Plasmodium falciparum co-chaperone 'PFA0660w' complexes with major virulence factor 'PfEMP1' via chaperone 'PfHsp70-x'	Scientific Reports	2019	-	7	-
640	Pathak N., Agarwal P.C., Dhriti K.M., Kaur S., Gill T.S.	Self-Focusing of Quadruple Gaussian Laser Beam in Relativistic Plasma using Moment Theory Approach	2019 Workshop on Recent Advances in Photonics, WRAP 2019	2019	-		-
641	Thukral A.K., Bhardwaj R., Kumar V., Sharma A.	Corrigendum to "New indices regarding the dominance and diversity of communities, derived from sample variance and standard deviation" [Heliyon 5 (10) (October 2019) e02606](S2405844019362668)(10.1016/j.heliyon.2019.e02606)	Heliyon	2019	-		-
642	Singh J., Mahabaleshwar U.S., Bognár G.	Mass Transpiration in Nonlinear MHD Flow Due to Porous Stretching Sheet	Scientific Reports	2019	-	10	-



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643	Bhagat K., Singh A., Dhiman S., Vir Singh J., Kaur R., Kaur G., Kaur Gulati H., Singh P., Kumar R., Salwan R., Bhagat K., Singh H., Sharma S., Singh Bedi P.M.	Microwave-assisted synthesis of 11-substituted-3,3-dimethyl-2,3,4,5,10,11-hexahydrodibenzo[b,e][1,4] diazepam-1-one derivatives catalysed by silica supported fluoroboric acid as potent antioxidant and anxiolytic agents	Medicinal Chemistry Research	2019	-	2	-
644	Singh H., Nathani S., Singh N., Roy P., Paul S., Sohal H.S., Jain S.K.	Development and characterization of Solid-SNEDDS formulation of DHA using hydrophilic carrier with improved shelf life, oxidative stability and therapeutic activity	Journal of Drug Delivery Science and Technology	2019	-	4	-
645	Kaur P., Purewal S.S., Sandhu K.S., Kaur M.	DNA damage protection: an excellent application of bioactive compounds	Bioresources and Bioprocessing	2019	-	5	-
646	Parmar R., Seth R., Singh P., Singh G., Kumar S., Sharma R.K.	Transcriptional profiling of contrasting genotypes revealed key candidates and nucleotide variations for drought dissection in <i>Camellia sinensis</i> (L.) O. Kuntze	Scientific Reports	2019	-	15	-
647	Khanna K., Jamwal V.L., Gandhi S.G., Ohri P., Bhardwaj R.	Metal resistant PGPR lowered Cd uptake and expression of metal transporter genes with improved growth and photosynthetic pigments in <i>Lycopersicon esculentum</i> under metal toxicity	Scientific Reports	2019	-	40	-
648	Sood H., Kumar Y., Gupta V.K., Arora D.S.	Scientific validation of the antimicrobial and antiproliferative potential of <i>Berberis aristata</i> DC root bark, its phytoconstituents and their biosafety	AMB Express	2019	-	3	-
649	Kaur R., Kaur M., Agarwal P.C., Kaur S., Kumar G.	Simulation of Terahertz Propagation by TE Mode in Metal Dielectric Metal Waveguide	2019 Workshop on Recent Advances in Photonics, WRAP 2019	2019	-		-
650	Singh R., Gurao A., Rajesh C., Mishra S.K., Rani S., Behl A., Kumar V., Kataria R.S.	Comparative modeling and mutual docking of structurally uncharacterized heat shock protein 70 and heat shock factor-1 proteins in water buffalo	Veterinary World	2019	-	4	-
651	Hamouma O., Kaur N., Oukil D., Mahajan A., Chehimi M.M.	Paper strips coated with polypyrrole-wrapped carbon nanotube composites for chemi-resistive gas sensing	Synthetic Metals	2019	-	6	-
652	Kohli S.K., Bali S., Tejpal R., Bhalla V., Verma V., Bhardwaj R., Alqarawi A.A., Abd_Allah E.F., Ahmad P.	In-situ localization and biochemical analysis of bio-molecules reveals Pb-stress amelioration in <i>Brassica juncea</i> L. by co-application of 24-Epibrassinolide and Salicylic Acid	Scientific Reports	2019	-	14	-



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653	Khanna K., Jamwal V.L., Sharma A., Gandhi S.G., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Marraiki N., Ahmad P.	Evaluation of the role of rhizobacteria in controlling root-knot nematode infection in Lycopersicon esculentum plants by modulation in the secondary metabolite profiles	AoB PLANTS	2019	-	3	-
654	Kohli S.K., Khanna K., Bhardwaj R., Abd Allah E.F., Ahmad P., Corpas F.J.	Assessment of subcellular ROS and NO metabolism in higher plants: Multifunctional signaling molecules	Antioxidants	2019	-	45	-
655	Kumar V., Parihar R.D., Sharma A., Bakshi P., Singh Sidhu G.P., Bali A.S., Karaouzas I., Bhardwaj R., Thukral A.K., Gyasi-Agyei Y., Rodrigo-Comino J.	Global evaluation of heavy metal content in surface water bodies: A meta-analysis using heavy metal pollution indices and multivariate statistical analyses	Chemosphere	2019	-	96	-
656	Sharma B., Gujral H.S.	Influence of nutritional and antinutritional components on dough rheology and in vitro protein & starch digestibility of minor millets	Food Chemistry	2019	-	13	-
657	Kaur S., Kaur P., Singh K.	Theoretical Approach towards the Investigation of Linear and Second-Order Nonlinear Optical Behavior of Ferrocene-Diketopyrrolopyrrole Dyads	ChemistrySelect	2019	-		-
658	Chawla A., Kumar S., Singh A., Malhi P.S., Sharma S., Singh M.	Effect of Starting Mn Precursor on the Structural and Ferroelectric Properties of BCT Based Solid Solutions	Integrated Ferroelectrics	2019	-	3	-
659	Kumar A., Sharma P., Kumar S., Singh A., Kundu R.S., Punia R.	Effect of Diamagnetic Ion Substitution on Structural and Magnetic Properties of Nd <sup>3+</sup> Modified Solid Solutions	Integrated Ferroelectrics	2019	-		-
660	Chopra R., Singh L., Chibale K., Singh K.	Synthesis, In Silico Molecular Docking, ADME Evaluation and In Vitro Antiplasmodial Activity of Pyrimidine-Based Hybrid Molecules	ChemistrySelect	2019	-	1	-
661	Singh O., Singla P., Aswal V.K., Mahajan R.K.	Impact of Aromatic Counter-Ions Charge Delocalization on the Micellization Behavior of Surface-Active Ionic Liquids	Langmuir	2019	-	5	-
662	Sharma S., Dubey G., Sran B.S., Bharatam P.V., Hundal G.	Fabrication of a Hydrazone-Based Al(III)-Selective "turn-On" Fluorescent Chemosensor and Ensuing Potential Recognition of Picric Acid	ACS Omega	2019	-	6	-



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663	Ravindra K., Singh T., Mor S., Singh V., Mandal T.K., Bhatti M.S., Gahlawat S.K., Dhankhar R., Mor S., Beig G.	Real-time monitoring of air pollutants in seven cities of North India during crop residue burning and their relationship with meteorology and transboundary movement of air	Science of the Total Environment	2019	-	34	-
664	Dhillon D.K., Koley S.	Neck circumference: A reliable indicator of the percent body fat in young male and female adults	International Journal of Advanced Science and Technology	2019	-		-
665	Mittal L.S., Sharma P., Kaur N., Singh P.	A perylenediimide based 'on-off' chemosensor for the detection of nucleoside triphosphates: An efficient ensemble for monitoring alkaline phosphatase activity	Analytical Methods	2019	-	5	-
666	Sharma S., Kataria M., Kumar M., Bhalla V.	Entropically Favoured Assembly of Pyrazine-Based Helical Fibers into Superstructures: Achiral/ Chiral Guest-Induced Chirality Transformation	Angewandte Chemie - International Edition	2019	-	3	-
667	Sharma P., Chadha P., Saini H.S.	Tetrabromobisphenol A induced oxidative stress and genotoxicity in fish <i>Channa punctatus</i>	Drug and Chemical Toxicology	2019	-	9	-
668	Kaur K., Beri N.	Psychometric properties of multidimensional scale of perceived social support (MSPSS): Indian adaptation	International Journal of Scientific and Technology Research	2019	-	1	-
669	Attri J., Kaur P.	Security concerns in cloud computing: Analysis and solution	International Journal of Innovative Technology and Exploring Engineering	2019	-		-
670	Singh K., Saini N.S.	The evolution of rogue wave triplets and super rogue waves in superthermal polarized space dusty plasma	Physics of Plasmas	2019	-	10	-
671	Arora M., Kaur A.	<i>Azolla pinnata</i> , <i>Aspergillus terreus</i> , and <i>Eisenia fetida</i> for faster recycling of nutrients from wheat straw	Environmental Science and Pollution Research	2019	-	1	-
672	Sharma B., Gujral H.S.	Characterization of thermo-mechanical behavior of dough and starch digestibility profile of minor millet flat breads	Journal of Cereal Science	2019	-	4	-
673	Singh K., Singh N., Kaur A., Virdi A.S., Dar O.I., Sharma S.	Functional properties and dynamic rheology of protein isolates extracted from male and female common carp ( <i>Cyprinus carpio</i> ) muscle subjected to pH-shifting method	Journal of Food Processing and Preservation	2019	-	1	-
674	Jain R.K., Kaur J., Khanna A., Chawla A.K.	Tailoring the structural, electrical, optical and wettability properties of ZnSe films by oblique angle thermal evaporation	Materials Research Express	2019	-	1	-
675	Singh G., Singh R.C.	Highly sensitive and selective liquefied petroleum gas sensor based on novel ZnO–NiO heterostructures	Journal of Materials Science: Materials in Electronics	2019	-	3	-



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676	Pathak N., Kaur M., Kaur S., Gill T.S.	Non-paraxial theory of self-focusing/defocusing of Hermite cosh Gaussian laser beam in rippled density plasmas	Contributions to Plasma Physics	2019	-	2	-
677	Sood A.K., Aggarwal M.	Mixed Micellar and Interfacial Studies of Triblock Copolymers with Amphiphilic Drug Ibuprofen in Aqueous Urea Solutions	Journal of Surfactants and Detergents	2019	-		-
678	Lone M.Y., Kumar A., Ansari N., Husain S., Zulfequar M., Singh R.C., Husain M.	Structural effect of SWCNTs grown by PECVD towards NH <sub>3</sub> gas sensing and field emission properties	Materials Research Bulletin	2019	-	4	-
679	Paul S., Manokamna, Kaur S., Malhi P.S., Singh A., Kumar A.	Effect of Fe substitution on the structural, electrical and dielectric properties of La <sub>0.70</sub> Ca <sub>0.30</sub> MnO <sub>3</sub> cathode for SOFCs	International Journal of Innovative Technology and Exploring Engineering	2019	-		-
680	Bansal S., Aggarwal M., Gill T.S.	Effect of positron density and temperature on the electron acoustic waves in a magnetized dissipative plasma	Contributions to Plasma Physics	2019	-	3	-
681	Yadav U., Singh N., Arora S., Arora B.	Physicochemical, pasting, and thermal properties of starches isolated from different adzuki bean ( <i>Vigna angularis</i> ) cultivars	Journal of Food Processing and Preservation	2019	-	2	-
682	Varsha, Bala M., Kumar M., Kumar N.	Development of qos optimized routing using artificial bee colony and tabu-ga with a mobile base station in wireless sensor network	International Journal of Innovative Technology and Exploring Engineering	2019	-	1	-
683	Kaur M., Punia S., Sandhu K.S., Ahmed J.	Impact of high pressure processing on the rheological, thermal and morphological characteristics of mango kernel starch	International Journal of Biological Macromolecules	2019	-	7	-
684	Shalini, Johansen M.D., Kremer L., Kumar V.	Variedly connected 1,8-naphthalimide-7-chloroquinoline conjugates: Synthesis, anti-mycobacterial and cytotoxic evaluation	Bioorganic Chemistry	2019	-	2	-
685	Khanna K., Sharma A., Ohri P., Bhardwaj R., Abd-Allah E.F., Hashem A., Ahmad P.	Impact of plant growth promoting rhizobacteria in the orchestration of <i>Lycopersicon esculentum</i> mill. Resistance to plant parasitic nematodes: A metabolomic approach to evaluate defense responses under field conditions	Biomolecules	2019	-	7	-
686	Bali S., Jamwal V.L., Kohli S.K., Kaur P., Tejpal R., Bhalla V., Ohri P., Gandhi S.G., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ali H.M., Ahmad P.	Jasmonic acid application triggers detoxification of lead (Pb) toxicity in tomato through the modifications of secondary metabolites and gene expression	Chemosphere	2019	-	19	-



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687	Sharma A., Kumar V., Shahzad B., Tanveer M., Sidhu G.P.S., Handa N., Kohli S.K., Yadav P., Bali A.S., Parihar R.D., Dar O.I., Singh K., Jasrotia S., Bakshi P., Ramakrishnan M., Kumar S., Bhardwaj R., Thukral A.K.	Worldwide pesticide usage and its impacts on ecosystem	SN Applied Sciences	2019	-	61	-
688	Sharma R., Bhardwaj R., Thukral A.K., Al-Huqail A.A., Siddiqui M.H., Ahmad P.	Oxidative stress mitigation and initiation of antioxidant and osmoprotectant responses mediated by ascorbic acid in Brassica juncea L. subjected to copper (II) stress	Ecotoxicology and Environmental Safety	2019	-	9	-
689	Chhabra N., Bala M.	Study of existing cloud data storage techniques with respect to optimized duplication: Deduplication	International Journal of Advanced Science and Technology	2019	-	-	-
690	Singh G.P., Singh J., Singh R.C., Singh K.J.	Investigation of structural and optical properties of pure and zinc doped CuO nanoparticles	AIP Conference Proceedings	2019	-	1	-
691	Batra M.S., Dwivedi R., Prasad R.	Recent Developments in Heterogeneous Catalyzed Epoxidation of Styrene to Styrene Oxide	ChemistrySelect	2019	-	7	-
692	Kaur H., Marwaha A., Singh C., Narang S.B., Jotania R., Jacobo S., Sombra A.S.B., Trukhanov S.V., Trukhanov A.V., Dhruv P.	Investigation of structural, hysteresis and electromagnetic parameters for microwave absorption application in doped Ba-Sr hexagonal ferrites at X-band	Journal of Alloys and Compounds	2019	-	18	-
693	Phillips H.R.P., Guerra C.A., Bartz M.L.C., Briones M.J.I., Brown G., Crowther T.W., Ferlian O., Gongalsky K.B., Van Den Hoogen J., Krebs J., Orgiazzi A., Routh D., Schwarz B., Bach E.M., Bennett J., Brose U., Decaëns T., König-Ries B., Loreau M., Mathieu J., Mulder C., Van Der Putten W.H.,	Global distribution of earthworm diversity	Science	2019	-	55	-



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	Ramirez K.S., Rillig M.C., Russell D., Rutgers M., Thakur M.P., De Vries F.T., Wall D.H., Wardle D.A., Arai M., Ayuke F.O., Baker G.H., Beauséjour R., Bedano J.C., Birkhofer K., Blanchart E., Blossey B., Bolger T., Bradley R.L., Callahan M.A., Capowiez Y., Caulfield M.E., Choi A., Crotty F.V., Dávalos A., Cosin D.J.D., Dominguez A., Duhour A.E., Van Eekeren N., Emmerling C., Falco L.B., Fernández R., Fonte S.J., Fragoso C., Franco A.L.C., Fugère M., Fusilero A.T., Gholami S., Gundale M.J., Lopez M.G., Hackenberger D.K., Hernández L.M., Hishi T., Holdsworth A.R., Holmstrup M., Hopfensperger K.N., Lwanga E.H., Huhta V., Hurisso T.T., Iannone B.V., Iiri, Iordache M., Joschko M., Kaneko N., Kanianska R., Keith A.M., Kelly C.A., Kernecker M.L., Klaminder J., Koné A.W., Kooch Y., Kukkonen S.T., Lalthanzara H., Lammel D.R., Lebedev I.M., Li Y., Lidon J.B.J., Lincoln N.K., Loss S.R., Marichal R., Matula R., Moos J.H., Moreno G., Mor n-Ríos						



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	A., Muys B., Neiryneck J., Norgrove L., Novo M., Nuutinen V., Nuzzo V., Mujeeb Rahman P., Pansu J., Paudel S., Pérès G., Pérez-Camacho L., Piñeiro R., Ponge J.-F., Rashid M.I., Rebollo S., Rodeiro-Iglesias J., Rodríguez M.Á., Roth A.M., Rousseau G.X., Rozen A., Sayad E., Van Schaik L., Scharenbroch B.C., Schirrmann M., Schmidt O., Schröder B., Seeber J., Shashkov M.P., Singh J., Smith S.M., Steinwandter M., Talavera J.A., Trigo D., Tsukamoto J., De Valença A.W., Vanek S.J., Virto I., Wackett A.A., Warren M.W., Wehr N.H., Whalen J.K., Wironen M.B., Wolters V., Zenkova I.V., Zhang W., Cameron E.K., Eisenhauer N.						
694	Soni P.	Revisiting the role of relationship benefits in online retail	Marketing Intelligence and Planning	2019	-	3	-
695	Kaur P., Kriti, Kaur S., Arora D., Rahul, Kandasami A., Singh D.P.	Correlation among lattice strain, defect formation and luminescence properties of transition metal doped ZnO nano-crystals prepared via low temperature technique	Materials Research Express	2019	-	2	-
696	Kaur N., Kang L.S.	The costs and benefits of going beyond the call of duty	International Journal of Productivity and Performance Management	2019	-		-
697	Suri K., Singh B., Kaur A., Yadav M.P., Singh N.	Impact of infrared and dry air roasting on the oxidative stability, fatty acid composition, Maillard reaction products and other chemical properties of black cumin ( <i>Nigella sativa</i> L.) seed oil	Food Chemistry	2019	-	18	-



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698	Samiksha, Singh D., Kesavan A.K., Sohal S.K.	Purification of a trypsin inhibitor from <i>Psoralea corylifolia</i> seeds and its influence on developmental physiology of <i>Bactrocera cucurbitae</i>	International Journal of Biological Macromolecules	2019	-	3	-
699	Kaur H., Sood S.K.	Fog-assisted IoT-enabled scalable network infrastructure for wildfire surveillance	Journal of Network and Computer Applications	2019	-	10	-
700	Gupta N., Khanna A., Barriuso M.G., González F.	Effects of doping of trivalent ions on glass and anti-glass phases of Bi <sub>2</sub> O <sub>3</sub> -Nb <sub>2</sub> O <sub>5</sub> -TeO <sub>2</sub> system	Journal of Non-Crystalline Solids	2019	-	5	-
701	Kaur J., Arora S.	Indian students' attitude toward educational debt: scale development and validation	Quality Assurance in Education	2019	-	1	-
702	Pal Kaur R.	Impact of time delay in a forest biomass model in the presence of export and industry	International Journal of Advanced Science and Technology	2019	-	-	-
703	Kaur R.P.	Impact of virus in a resource biomass model with industry	International Journal of Advanced Science and Technology	2019	-	-	-
704	Kaur R.P.	Impact of industry and export on the biomass resources	International Journal of Advanced Science and Technology	2019	-	-	-
705	Monga S., Dwivedi N.R., Pathak D., Kaur H., Jain S.R.	Semiclassical description of $\alpha$ - Radioactivity in even-even nuclei	Journal of Physics G: Nuclear and Particle Physics	2019	-	2	-
706	Ghai Y., Saini N.S., Eliasson B.	Neutrino-driven Instability of Ion Acoustic Waves in an Ultrarelativistic Degenerate Plasma	Astrophysical Journal	2019	-	-	-
707	Kumar Godara S., Kaur V., Narang S.B., Singh M., Bhadu G.R., Chaudhari J.C., Mudsainiyan R.K., Sood A.K.	Tunable M-type nano barium hexaferrite material by Zn <sup>2+</sup> /Zr <sup>4+</sup> co-doping	Materials Research Express	2019	-	5	-
708	Singh R., Dureja J.S., Dogra M., Randhawa J.S.	Optimization of machining parameters under MQL turning of Ti-6Al-4V alloy with textured tool using multi-attribute decision-making methods	World Journal of Engineering	2019	-	10	-
709	Kumar R., Mahey S., Arora R., Mahajan J., Kumar V., Arora S.	Insights into biological properties of less explored bark of industrially important <i>Acacia catechu</i> Willd	Industrial Crops and Products	2019	-	2	-



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710	Jain S.K., Kaur M., Kalyani P., Mehra A., Kaur N., Panchal N.	Microsponges enriched gel for enhanced topical delivery of 5-fluorouracil	Journal of Microencapsulation	2019	-	3	-
711	Chawla A., Singh A., Singh M., Malhi P.S.	Small polaron hopping-assisted electrical conduction and relaxation in BCT and Mn-doped BCT samples	Journal of Asian Ceramic Societies	2019	-	2	-
712	Mukhtar H.M., Singh A., Soni V., Singh A., Kaur H.	Development and validation of RP-HPLC method for the determination of stigmasterol in the botanical extract of Ficus deltoidea	Natural Product Research	2019	-	-	-
713	Kaur A., Kaur M.	Impact of packaging materials and different chemicals on storage and shelf life of pear cv. Punjab beauty	International Journal of Advanced Science and Technology	2019	-	-	-
714	Kaur A., Yadav M.P., Singh B., Bhinder S., Simon S., Singh N.	Isolation and characterization of arabinoxylans from wheat bran and study of their contribution to wheat flour dough rheology	Carbohydrate Polymers	2019	-	16	-
715	Kaur H., Khullar V., Singh H.P., Bala M.	Perinatal hypoxia diagnostic system by using scalable machine learning algorithms	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	-
716	Priya M., Malhotra J.	Mobile Network Architecture for Emergency Rescue Services in the Smart City	Proceedings - 2019 International Conference on Computing, Communication, and Intelligent Systems, ICCIS 2019	2019	-	-	-
717	Kaur K., Koley S.	Estimation of back strength, hip circumference and buttock knee length and its correlation with explosive power in indian state and national level gymnasts	International Journal of Advanced Science and Technology	2019	-	-	-
718	Kaur G., Luthra A.	Post-independence institutional efforts in planned housing development in Amritsar (Punjab, India)	International Journal of Engineering and Advanced Technology	2019	-	-	-
719	Dhillon P.K., Kalra S.	A secure multifactor remote user authentication scheme for Internet of Multimedia Things environment	International Journal of Communication Systems	2019	-	2	-
720	Thakur S., Kaur A., Singh L.	Mixed valence effect of Se <sup>6+</sup> and Zr <sup>4+</sup> on structural, thermal, physical, and optical properties of B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -SeO <sub>2</sub> -ZrO <sub>2</sub> glasses	Optical Materials	2019	-	9	-
721	Kumar V., Behl A., Sharma R., Sharma A., Hora R.	Plasmodium helical interspersed subtelomeric family—an enigmatic piece of the Plasmodium biology puzzle	Parasitology Research	2019	-	-	-



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722	Singh H., Kaur M., Kaur H., Sharma I., Bhandari A., Kaur G., Singh P.	Structural tuning of acridones for developing anticancer agents targeting dihydrofolate reductase	Bioorganic and Medicinal Chemistry Letters	2019	-	2	-
723	Kaur S., Sharma D., Singh A.P., Kaur S.	Amelioration of hepatic function, oxidative stress, and histopathologic damages by Cassia fistula L. fraction in thioacetamide-induced liver toxicity	Environmental Science and Pollution Research	2019	-	6	-
724	Sharma S., Singh P., Chadha P., Saini H.S.	Toxicity assessment of chlorpyrifos on different organs of rat: exploitation of microbial-based enzymatic system for neutralization	Environmental Science and Pollution Research	2019	-	1	-
725	Kumar M., Saini H.S.	Reduction of hexavalent chromium (VI) by indigenous alkaliphilic and halotolerant Microbacterium sp. M5: comparative studies under growth and nongrowth conditions	Journal of Applied Microbiology	2019	-	1	-
726	Singh M., Singh K.	Agronomic zinc biofortification of wheat	Agrochimica	2019	-	-	-
727	Walia G.S., Singh H., Kaur J., Kushwaha M.K., Singh A., Saini N.S.	Combined mild and hard novel fabrication approach for nanoporous membrane	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2019	-	1	-
728	Malik S.S., Mazumdar I.	Role of quantum phase transition in spontaneous fission	Nuclear Physics A	2019	-	-	-
729	Saxena R., Kaur J., Hora R., Singh P., Singh V., Mishra P.C.	CX3CL1 binding protein-2 (CBP2) of Plasmodium falciparum binds nucleic acids	International Journal of Biological Macromolecules	2019	-	1	-
730	Singh G., Bhatti R., Mannan R., Singh D., Kesavan A., Singh P.	Osthole ameliorates neurogenic and inflammatory hyperalgesia by modulation of iNOS, COX-2, and inflammatory cytokines in mice	Inflammopharmacology	2019	-	8	-
731	Kaur P., Duong A., Chawla S.K., Narang S.B., Meena S.S.	Effect of precursors on the structural, magnetic, dielectric, microwave and electromagnetic properties of Co-Zr doped nanocrystalline strontium hexaferrites synthesized via sol-gel method	SN Applied Sciences	2019	-	2	-
732	Singh H., Kalsi S.B.S., Sidhu T.S., Dhulka M.P.S., Singh D.P., Saini N.P.S.	Microstructure of Ni-Cr-Based Coating for Corrosive Conditions	Journal of Thermal Spray Technology	2019	-	2	-
733	Khanna K., Kohli S.K., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Alosaimi G.S., Ahmad P.	Microbial fortification improved photosynthetic efficiency and secondary metabolism in lycopersicon esculentum plants under cd stress	Biomolecules	2019	-	6	-



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734	Thukral A.K., Bhardwaj R., Kumar V., Sharma A.	New indices regarding the dominance and diversity of communities, derived from sample variance and standard deviation	Heliyon	2019	-	3	-
735	Bhatia M., Sood S.K., Kaur S.	Quantum-based predictive fog scheduler for IoT applications	Computers in Industry	2019	-	11	-
736	Hans M., Kumar S., Chandel A.K., Polikarpov I.	A review on bioprocessing of paddy straw to ethanol using simultaneous saccharification and fermentation	Process Biochemistry	2019	-	12	-
737	Chahal A., Kumar S., Panghal A., Kumar A., Singh J., Singh P., Bajwa B.S.	Study of Uranium in Drinking Water around the Sohna Fault Line in Haryana	Journal of the Geological Society of India	2019	-	1	-
738	Sharma N., Sharma A., Bhatia G., Landi M., Brestic M., Singh B., Singh J., Kaur S., Bhardwaj R.	Isolation of phytochemicals from Bauhinia variegata L. Bark and their in vitro antioxidant and cytotoxic potential	Antioxidants	2019	-	7	-
739	Singh C., Bai Y., Narang S.B., Mishra S.R., Singh D., Sombra A.S.B., Jotania R., Trukhanov S.V., Trukhanov A.V., Ghimire M., Kagdi A.	Bandstop Passive Filter Characteristics of Hexagonal Ferrite Composites at X-Band	Journal of Electronic Materials	2019	-	2	-
740	Shiekh B.A.	Hierarchy of Commonly Used DFT Methods for Predicting the Thermochemistry of Rh-Mediated Chemical Transformations	ACS Omega	2019	-	4	-
741	Prakash O., Saxena V., Choudhury S., Tanvi, Singh A., Debnath A.K., Mahajan A., Muthe K.P., Aswal D.K.	Low temperature processable ultra-thin WO <sub>3</sub> Langmuir-Blodgett film as excellent hole blocking layer for enhanced performance in dye sensitized solar cell	Electrochimica Acta	2019	-	6	-
742	Kumar S., Scheidt H.A., Kaur N., Kang T.S., Gahlay G.K., Huster D., Mithu V.S.	Effect of the Alkyl Chain Length of Amphiphilic Ionic Liquids on the Structure and Dynamics of Model Lipid Membranes	Langmuir	2019	-	10	-
743	Datta S., Singh S., Kumar V., Dhanjal D.S., Sidhu G.K., Amin D.S., Kumar S., Singh J., Singh J.	Endophytic bacteria in xenobiotic degradation	Microbial Endophytes: Prospects for Sustainable Agriculture	2019	-	1	-
744	Betlem K., Kaur A., Hudson A.D., Crapnell R.D., Hurst G., Singla P., Zubko M., Tedesco S., Banks C.E., Whitehead K., Peeters M.	Heat-Transfer Method: A Thermal Analysis Technique for the Real-Time Monitoring of Staphylococcus aureus Growth in Buffered Solutions and Digestate Samples	ACS Applied Bio Materials	2019	-	3	-



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745	Singh A., Zhang D., Tam C.C., Cheng L.W., Land K.M., Kumar V.	Click-chemistry approach to synthesis of functionalized isatin-ferrocenes and their biological evaluation against the human pathogen <i>Trichomonas vaginalis</i>	Journal of Organometallic Chemistry	2019	-	2	-
746	Sharma A., Yuan H., Kumar V., Ramakrishnan M., Kohli S.K., Kaur R., Thukral A.K., Bhardwaj R., Zheng B.	Castasterone attenuates insecticide induced phytotoxicity in mustard	Ecotoxicology and Environmental Safety	2019	-	15	-
747	Rai R., Bibra M., Chadha B.S., Sani R.K.	Enhanced hydrolysis of lignocellulosic biomass with doping of a highly thermostable recombinant laccase	International Journal of Biological Macromolecules	2019	-	14	-
748	Kaur N., Sharma P., Banipal T.S., Banipal P.K., Aggarwal N.	Effect of Caffeine on the Physicochemical Properties of Neurotransmitter GABA: Thermodynamic and Theoretical Approach	Journal of Chemical and Engineering Data	2019	-	3	-
749	Angurala M., Bala M., Bamber S.S.	An optimal topology selection for power recharging model in wireless sensor networks)	International Journal of Advanced Science and Technology	2019	-	-	-
750	Kaur K., Kataria M., Kaur M., Sood A.K., Kumar M., Bhalla V.	AIEE Active Supramolecular Metallic Ensemble as "turn-On" Platform for Detection of Creatinine in Human Blood Serum at Picomolar Level	ACS Sustainable Chemistry and Engineering	2019	-	4	-
751	Kumar V., Hundal B.S.	Evaluating the service quality of solar product companies using SERVQUAL model	International Journal of Energy Sector Management	2019	-	8	-
752	Kumar V., Hundal B.S., Kaur K.	Factors affecting consumer buying behaviour of solar water pumping system	Smart and Sustainable Built Environment	2019	-	7	-
753	Kaur R., Singh G.	A survey of genetic algorithm based load balancing techniques for task graph scheduling problem in distributed environment	International Journal of Scientific and Technology Research	2019	-	-	-
754	Singh K., Sethi P., Saini N.S.	Nonlinear excitations in a degenerate relativistic magnetorotating quantum plasma	Physics of Plasmas	2019	-	7	-
755	Sood S.K., Singh K.D.	Optical fog-assisted smart learning framework to enhance students' employability in engineering education	Computer Applications in Engineering Education	2019	-	4	-
756	Singh M., Malhotra J.	Performance investigation of high-speed FSO transmission system under the influence of different atmospheric conditions incorporating 3-D orthogonal modulation scheme	Optical and Quantum Electronics	2019	-	9	-
757	Singh H., Kaur K., Singh S., Kaur P., Singh P.	Genome-wide analysis of cyclophilin gene family in wheat and identification of heat stress responsive members	Plant Gene	2019	-	1	-



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758	Dogra A., Kaur T.	DDOS attack detection and handling mechanism in WSN	International Journal of Recent Technology and Engineering	2019	-	-	-
759	Sandhu V., Atwal H.	Goods and services tax: Issues and challenges in India	International Journal of Recent Technology and Engineering	2019	-	1	-
760	Dogra A., Taqdir	Detecting intrusion with high accuracy: Using hybrid K-Multi layer perceptron	International Journal of Recent Technology and Engineering	2019	-	-	-
761	Kaur H., Khosla M., Sarin R.K.	Hybrid Type-2 Fuzzy Based Channel Estimation for MIMO-OFDM System with Doppler Offset Influences	Wireless Personal Communications	2019	-	1	-
762	Kaur M., Saraf I., Kumar R., Singh I.P., Kaur S.	Bioefficacy of Hexane Extract of Inula racemosa (Asteraceae) Against Spodoptera litura (Lepidoptera: Noctuidae) [Biowirksamkeit des Hexanextrakts aus Inula racemosa (Asteraceae) gegen Spodoptera litura (Lepidoptera: Noctuidae)]	Gesunde Pflanzen	2019	-	1	-
763	Paul S., Manokamna, Kaur S., Malhi P.S., Singh A., Kumar A.	Structural, dielectric and electrical properties of fe doped $La_{0.7}Ba_{0.3}MnO_3$ solid solutions for cathode materials	International Journal of Recent Technology and Engineering	2019	-	-	-
764	Kalsi P., Singh H.	Sensors based automotive vehicle for the detection of fuel level	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	-
765	Singh H., Punia R., Ganesh A., Duttgupta A., Kaur A., Blennow A.	Modification of Moth Bean Starch Using Mixture of Organic Acids under Dry Heating	Starch/Staerke	2019	-	5	-
766	Katyal M., Singh N., Viridi A.S., Kaur A., Chopra N., Agarwal S., Roy J.K.	Effect of debranning on grains and meal characteristics of different Indian and exotic wheat varieties	Food Research International	2019	-	2	-
767	Singh I., Singh G., Verma V., Singh S., Chandra R.	In Silico Evaluation of Variable pH on the Binding of Epidermal Growth Factor Receptor Ectodomain to its Ligand Through Molecular Dynamics Simulation in Tumors	Interdisciplinary Sciences: Computational Life Sciences	2019	-	1	-
768	Poonia N., Kaur Narang J., Lather V., Beg S., Sharma T., Singh B., Pandita D.	Resveratrol loaded functionalized nanostructured lipid carriers for breast cancer targeting: Systematic development, characterization and pharmacokinetic evaluation	Colloids and Surfaces B: Biointerfaces	2019	-	18	-



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769	Gupta V., Kumar A., Chaudhary M., Sehajpal P.K.	Protective effect of high levels of TGF- $\beta$ 1 cytokine and its corresponding allele at C-509T locus in Punjabi ESRD population	Meta Gene	2019	-		-
770	Bansal S., Aggarwal M., Gill T.S.	Theoretical analysis of planar and non-planar electron - acoustic shock waves in electron-positron-ion plasma	Contributions to Plasma Physics	2019	-	4	-
771	Khanna K., Jamwal V.L., Sharma A., Gandhi S.G., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ali H.M., Ahmad P.	Supplementation with plant growth promoting rhizobacteria (PGPR) alleviates cadmium toxicity in Solanum lycopersicum by modulating the expression of secondary metabolites	Chemosphere	2019	-	32	-
772	Dhillon P.K., Kalra S.	Secure and efficient ECC based SIP authentication scheme for VoIP communications in internet of things	Multimedia Tools and Applications	2019	-	12	-
773	Singh C., Bai Y., Narang S.B., Sombra A.S.B., Mishra S.R., Jotania R., Khanna R., Trukhanov S.V., Trukhanov A.V., Ghimire M.	Microwave filter characteristics of ferrite and polyaniline composites from 8.2 to 12.4 GHz	Journal of Materials Science: Materials in Electronics	2019	-	-	-
774	Shailja K.J.S., Singh R.C.	Effect of pH on the structural, optical and gas sensing properties of nickel oxide	AIP Conference Proceedings	2019	-	-	-
775	Thakur S., Kaur P., Singh L.	Investigation of polymethyl methacrylate incorporated neodymium oxide for gamma-ray and neutron shielding behaviour	AIP Conference Proceedings	2019	-	1	-
776	Kaur J., Singh R.C.	Effect of iron ion implantation dose on optical and structural properties of CdS nanowires	AIP Conference Proceedings	2019	-	-	-
777	Sood A.K.	Influence of some polymers on micellization behavior of sodium caprylate and cetyl pyridinium chloride	AIP Conference Proceedings	2019	-	-	-
778	Kaur A., Singh R.C.	Sonication assisted graphene exfoliation for preparation of conductive inks	AIP Conference Proceedings	2019	-	-	-
779	Sarin N., Singh K.J., Kaur R., Singh J., Kaur P.	Evaluation of bone regeneration ability of 42SiO <sub>2</sub> -37CaO-10P <sub>2</sub> O <sub>5</sub> -6MnO-5ZnO bioceramic composition	AIP Conference Proceedings	2019	-	-	-
780	Pathak N., Kaur P., Agrawal P.C., Kaur S.	Propagation characteristics of non-Gaussian laser beam in a plasma with density ramp using Moment Theory Approach	AIP Conference Proceedings	2019	-	-	-
781	Kumar S.G., Kaur V., Sood A.K., Bhadu G.R., Chaudhari J.C., Narang S.B.	Effect of different fuel combination on structure and properties of M type hexaferrite BaZn <sub>0.2</sub> Zr <sub>0.2</sub> Fe <sub>11.6</sub> O <sub>19</sub>	AIP Conference Proceedings	2019	-	-	-



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782	Kaur P., Singh K.J., Thakur S., Sarin N.	Assessment of the gamma-radiation and neutron shielding ability of Sb <sub>2</sub> O <sub>3</sub> -WO <sub>3</sub> -PbO-Na <sub>2</sub> O glass system	AIP Conference Proceedings	2019	-	-	-
783	Kaur A., Singh R.C.	Unveiling the tunneling phenomena in graphene-graphene homo-junctions for emerging device applications	Journal of Physics Condensed Matter	2019	-	1	-
784	Gothwal A., Singh H., Jain S.K., Dutta A., Borah A., Gupta U.	Behavioral and Biochemical Implications of Dendrimeric Rivastigmine in Memory-Deficit and Alzheimer's Induced Rodents	ACS Chemical Neuroscience	2019	-	1	-
785	Das A., Saini C.P., Singh D., Ahuja R., Kaur A., Aliukov S., Shukla D., Singh F.	High temperature-mediated rocksalt to wurtzite phase transformation in cadmium oxide nanosheets and its theoretical evidence	Nanoscale	2019	-	3	-
786	Kaur A., Kumar S., Kaur P.	Achieving colossal Kerr nonlinearity via multiphoton atomic coherence in a five-level $\Lambda$ - $\Xi$ system	Physica Scripta	2019	-	2	-
787	Kaur R., Singh B.	Do CEO characteristics explain firm performance in India?	Journal of Strategy and Management	2019	-	5	-
788	Kaur H., Sohal S.	Examining the relationships between political advertisements, party brand personality, voter satisfaction and party loyalty	Journal of Indian Business Research	2019	-	1	-
789	Sekhon J.S., Kumar A.	An outlier in the north success of the Congress in Punjab	Economic and Political Weekly	2019	-	-	-
790	Gupta M., Kaur G.	Withania somnifera (L.) Dunal ameliorates neurodegeneration and cognitive impairments associated with systemic inflammation	BMC Complementary and Alternative Medicine	2019	-	10	-
791	Arora D.S., Mahajan H.	Major Phytoconstituents of Prunus cerasoides Responsible for Antimicrobial and Antibiofilm Potential Against Some Reference Strains of Pathogenic Bacteria and Clinical Isolates of MRSA	Applied Biochemistry and Biotechnology	2019	-	5	-
792	Bhatia M., Sood S.K.	Exploring Temporal Analytics in Fog-Cloud Architecture for Smart Office HealthCare	Mobile Networks and Applications	2019	-	13	-
793	Nanda D., Kumar P., Samanta B., Sahu R., Singh A.	Structural, Dielectric, Ferroelectric and Magnetic Properties of (BNT-BT)-NCZF Composites Synthesized by a Microwave-Assisted Solid-State Reaction Route	Journal of Electronic Materials	2019	-	6	-
794	Pahwa C., Narang S.B., Sharma P.	Interfacial exchange coupling driven magnetic and microwave properties of BaFe <sub>12</sub> O <sub>19</sub> /Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanocomposites	Journal of Magnetism and Magnetic Materials	2019	-	11	-



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795	Arora A., Narang S.B., Pubby K.	Enhanced Microwave Absorption Properties of Doped M-Type Barium Hexagonal Ferrites in Ka-band Frequencies	Journal of Superconductivity and Novel Magnetism	2019	-	1	-
796	Singh H., Singh J.V., Bhagat K., Gulati H.K., Sanduja M., Kumar N., Kinarivala N., Sharma S.	Rational approaches, design strategies, structure activity relationship and mechanistic insights for therapeutic coumarin hybrids	Bioorganic and Medicinal Chemistry	2019	-	32	-
797	Passan S., Goyal S., Bhat M.A., Singh D., Vanita V.	Association of TNF- $\alpha$ gene alterations (c.-238G>A, c.-308G>A, c.-857C>T, c.-863C>A) with primary glaucoma in north Indian cohort	Gene	2019	-	2	-
798	Sethi P., Kaur N., Singh K., Singh M., Saini N.S.	Positron-acoustic nonlinear waves in multicomponent plasmas	AIP Conference Proceedings	2019	-	-	-
799	Kaur N., Sethi P., Singh M., Singh K., Saini N.S.	Nonlinear excitations in a relativistic plasma with non-Maxwellian electrons	AIP Conference Proceedings	2019	-	-	-
800	Singh M., Singh K., Sethi P., Kaur N., Saini N.S.	Three dimensional ion acoustic solitary waves in a magnetized plasma consisting of two temperature nonextensive electrons	AIP Conference Proceedings	2019	-	-	-
801	Singh K., Singh M., Kaur N., Sethi P., Saini N.S.	Ion acoustic shocks in degenerate plasma with trapping in a quantizing magnetic field	AIP Conference Proceedings	2019	-	1	-
802	Bansal S., Gill T.S., Aggarwal M.	Oblique modulation of electron acoustic waves in superthermal plasma	Physica Scripta	2019	-	1	-
803	Bhalla A., Kang L.S.	Domain-specific and nonspecific outcomes of work-family interface: A study of Indian journalists	Evidence-based HRM	2019	-	1	-
804	Singh M., Malhotra J.	Long-Reach High-Capacity Hybrid MDM-OFDM-FSO Transmission Link Under the Effect of Atmospheric Turbulence	Wireless Personal Communications	2019	-	18	-
805	Kaur K., Kaur K.	Learning towards failure prediction of high performance computing clusters by employing LSTM	International Journal of Engineering and Advanced Technology	2019	-	-	-
806	Kaur A.P., Sohal S.K.	Purified winged bean protease inhibitor affects the growth of <i>Bactrocera cucurbitae</i>	Bulletin of Entomological Research	2019	-	2	-
807	Kaur J., Singh M.L., Sohal R.S.	Analysis of sum spectrum efficiency in multiple antennas multi-user MIMO cellular system for millimeter wave communications	Sadhana - Academy Proceedings in Engineering Sciences	2019	-	-	-



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808	Kaur K., Singh K.J., Anand V., Bhatia G., Singh A.P., Kaur M.	Elucidating the role of size of hydroxyl apatite particles toward the development of competent antiosteoporotic bioceramic materials: In vitro and in vivo studies	Journal of Biomedical Materials Research - Part A	2019	-	1	-
809	Gulati N., Kaur P.D.	Towards socially enabled internet of industrial things: Architecture, semantic model and relationship management	Ad Hoc Networks	2019	-	10	-
810	Singh G., Kaur A., Kaur J., Bhatti M.S., Singh P., Bhatti R.	Bergapten inhibits chemically induced nociceptive behavior and inflammation in mice by decreasing the expression of spinal PARP, iNOS, COX-2 and inflammatory cytokines	Inflammopharmacology	2019	-	7	-
811	Singh J., Sharma S., Soni S., Sharma S., Chand Singh R.	Influence of different milling media on structural, morphological and optical properties of the ZnO nanoparticles synthesized by ball milling process	Materials Science in Semiconductor Processing	2019	-	14	-
812	Saini S., Chawla J., Kumar R., Kaur I.	Response surface methodology (RSM) for optimization of cadmium ions adsorption using C16-6-16 incorporated mesoporous MCM-41	SN Applied Sciences	2019	-	2	-
813	Kaur R., Singh G.	Design and analysis of multi-heuristic based solution for task graph scheduling problem	International Journal of Engineering and Advanced Technology	2019	-	-	-
814	Kaur A., Singh L., Singh N., Bhatti M.S., Bhatti R.	Ameliorative effect of imperatorin in chemically induced fibromyalgia: Role of NMDA/NFkB mediated downstream signaling	Biochemical Pharmacology	2019	-	14	-
815	Kaur A., Gourav, Kumar S., Jaiswal N., Vashisht A., Kumar D., Gahlay G.K., Mithu V.S.	NMR characterization of conformational fluctuations and noncovalent interactions of SUMO protein from Drosophila melanogaster (dSmt3)	Proteins: Structure, Function and Bioinformatics	2019	-	2	-
816	Pubby K., Bhongale S.R., Vasambekar P.N., Narang S.B.	Ni <sub>0.1</sub> CO <sub>0.9</sub> Fe <sub>2</sub> O <sub>4</sub> spinel ferrite as a promising magneto-dielectric substrate for X-band Microstrip Patch Antenna	2019 3rd International Conference on Electronics, Materials Engineering and Nano-Technology, IEMENTech 2019	2019	-	-	-
817	Kumar R., Kumar V., Sharma A., Singh N., Kumar R., Katnoria J.K., Bhardwaj R., Thukral A.K., Rodrigo-Comino J.	Assessment of pollution in roadside soils by using multivariate statistical techniques and contamination indices	SN Applied Sciences	2019	-	6	-



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818	Ahluwalia P., Mondal A.K., Bloomer C., Fulzele S., Jones K., Ananth S., Gahlay G.K., Heneidi S., Rojiani A.M., Kota V., Kolhe R.	Identification and clinical validation of a novel 4 gene-signature with prognostic utility in colorectal cancer	International Journal of Molecular Sciences	2019	-	11	-
819	Kapoor D., Singh M.P., Kaur S., Bhardwaj R., Zheng B., Sharma A.	Modulation of the functional components of growth, photosynthesis, and anti-oxidant stress markers in cadmium exposed Brassica juncea L.	Plants	2019	-	12	-
820	Dwivedi N.R., Monga S., Kaur H., Jain S.R.	Ignatyuk damping factor: A semiclassical formula	International Journal of Modern Physics E	2019	-	2	-
821	Carol Trudel T.T., Mohammed J., Hafeez H.Y., Bhat B.H., Godara S.K., Srivastava A.K.	Structural, Dielectric, and Magneto-Optical Properties of Al-Cr Substituted M-Type Barium Hexaferrite	Physica Status Solidi (A) Applications and Materials Science	2019	-	12	-
822	Dadwal S., Deol H., Kumar M., Bhalla V.	AIEE Active Nanoassemblies of Pyrazine Based Organic Photosensitizers as Efficient Metal-Free Supramolecular Photoredox Catalytic Systems	Scientific reports	2019	-	4	-
823	Singh A., Singh J.V., Rana A., Bhagat K., Gulati H.K., Kumar R., Salwan R., Bhagat K., Kaur G., Singh N., Kumar R., Singh H., Sharma S., Bedi P.M.S.	Monocarbonyl curcumin based molecular hybrids as potent antibacterial agents	ACS Omega	2019	-	14	-
824	Majumdar A., Biswas A., Baishnab K.L., Sood S.K.	DNA based cloud storage security framework using fuzzy decision making technique	KSII Transactions on Internet and Information Systems	2019	-	2	-
825	Dar O.I., Sharma S., Singh K., Kaur A.	Teratogenicity and accumulation of triclosan in the early life stages of four food fish during the bioassay	Ecotoxicology and Environmental Safety	2019	-	2	-
826	Singh J., Verma V., Kumar R., Sharma S., Kumar R.	Corrigendum: Effect of structural and thermal disorder on the optical band gap energy of Cr <sub>2</sub> O <sub>3</sub> nanoparticles (Materials Research Express (2019) 6 (085039) DOI: 10.1088/2053-1591/ab195c)	Materials Research Express	2019	-		-
827	Kaur A., Singh B.	Edifying role of corporate reputation in new issue market: Indian evidence	Asia-Pacific Journal of Business Administration	2019	-		-
828	Singh G., Singh R.C.	Synthesis, Characterization and Gas Sensing Properties of Ga-Doped SnO <sub>2</sub> Nanostructures	Journal of Electronic Materials	2019	-	8	-



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829	Arora A., Narang S.B.	Investigation of Magnetic and Microwave Absorption Properties of Ba(1-2x)LaxNaxFe10CoTiO19 Hexaferrites in 18.0-26.5 GHz Band	Journal of Superconductivity and Novel Magnetism	2019	-	3	-
830	Punia S., Sandhu K.S., Dhull S.B., Kaur M.	Dynamic, shear and pasting behaviour of native and octenyl succinic anhydride (OSA) modified wheat starch and their utilization in preparation of edible films	International Journal of Biological Macromolecules	2019	-	11	-
831	Devi P., Singh R., Sharma S., Sharma S., Mahajan A., Bedi R.K., Saini R.	Flexible and highly sensitive Cl <sub>2</sub> sensor based on solution processed phthalocyanine nanowires	AIP Conference Proceedings	2019	-	-	-
832	Singh S.K.J., Singh R.C.	Sensitive and selective hydrogen gas sensor based on Sn doped NiO nanoparticles	AIP Conference Proceedings	2019	-	1	-
833	Kaur A., Khanna A.	Thermal, optical and Raman spectroscopy studies of lithium tellurite glasses containing molybdenum and tungsten ions	AIP Conference Proceedings	2019	-	1	-
834	Gupta N., Khanna A.	Study of anti-glass phases in heavy metal oxide tellurite systems	AIP Conference Proceedings	2019	-	3	-
835	Kaur P., Singh K.J., Kurudirek M., Thakur S.	Gamma-ray and neutron shielding behaviour of CaO-K <sub>2</sub> O-P <sub>2</sub> O <sub>5</sub> glass system modified with Bi <sub>2</sub> O <sub>3</sub>	AIP Conference Proceedings	2019	-	-	-
836	Sharma A.K., Sohal M.K., Singh R.C., Mahajan A.	Sensing performance of rGO/phthalocyanine based hybrid at room temperature	AIP Conference Proceedings	2019	-	1	-
837	Kaur B., Kaur M., Kaur N., Garg S., Bhatti R., Singh P.	Engineered Substrate for Cyclooxygenase-2: A Pentapeptide Isoconformational to Arachidonic Acid for Managing Inflammation	Journal of Medicinal Chemistry	2019	-	3	-
838	Prakash O., Mahajan A., Bedi R.K., Saxena V.	Growth of few layered molybdenum disulphide	AIP Conference Proceedings	2019	-	-	-
839	Kumar A., Kumar A., Dogra R., Sharma S., Kumar R.	Thermoluminescence characteristics of gamma induced LiF: Yb <sup>3+</sup> nanophosphor	AIP Conference Proceedings	2019	-	1	-
840	Singh K., Malviya B.K., Jaiswal P.K., Verma V.P., Chimni S.S., Sharma S.	Phenanthridine-Fused Tetracyclic Ring System: Metal-Free Diastereoselective Modular Construction of Highly Constrained Polyheterocycles via Post-Ugi Tandem Modifications	Organic Letters	2019	-	10	-
841	Khanna K., Handa N., Yadav P., Gautam V., Kumar V., Ohri P., Bhardwaj R.	Molecular approaches in enhancing antioxidant defense in plants	Reactive Oxygen, Nitrogen and Sulfur Species in Plants: Production, Metabolism, Signaling and Defense Mechanisms	2019	-	-	-



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842	Khajuria A., Bali S., Sharma P., Kaur R., Jasrotia S., Saini P., Ohri P., Bhardwaj R.	S-nitrosoglutathione (GSNO) and plant stress responses	Reactive Oxygen, Nitrogen and Sulfur Species in Plants: Production, Metabolism, Signaling and Defense Mechanisms	2019	-	1	-
843	Kaur P., Handa N., Verma V., Bakshi P., Kalia R., Sareen S., Nagpal A., Vig A.P., Mir B.A., Bhardwaj R.	Cross talk among reactive oxygen, nitrogen and sulfur during abiotic stress in plants	Reactive Oxygen, Nitrogen and Sulfur Species in Plants: Production, Metabolism, Signaling and Defense Mechanisms	2019	-	2	-
844	Kaur H., Sood S.K.	Adaptive Neuro Fuzzy Inference System (ANFIS) based wildfire risk assessment	Journal of Experimental and Theoretical Artificial Intelligence	2019	-	6	-
845	Sharma G., Kalra S.	Advanced multi-factor user authentication scheme for E-governance applications in smart cities	International Journal of Computers and Applications	2019	-	5	-
846	Sangeeta, Narang T.D.	A study of farthest points and uniquely remotal sets	Journal of Interdisciplinary Mathematics	2019	-	-	-
847	Bhatia A., Makkar B.	Extent and drivers of CSR disclosure: evidence from Russia	Transnational Corporations Review	2019	-	1	-
848	Kaur A., Singh B., Kaur A., Singh N.	Chemical, thermal, rheological and FTIR studies of vegetable oils and their effect on eggless muffin characteristics	Journal of Food Processing and Preservation	2019	-	4	-
849	Bhinder S., Singh B., Kaur A., Singh N., Kaur M., Kumari S., Yadav M.P.	Effect of infrared roasting on antioxidant activity, phenolic composition and Maillard reaction products of Tartary buckwheat varieties	Food Chemistry	2019	-	23	-
850	Singh M., Malhotra J.	Enhanced performance of 40Gbit/s-80GHz OFDM based radio over FSO transmission link incorporating mode division multiplexing under strong atmospheric turbulence	Optoelectronics and Advanced Materials, Rapid Communications	2019	-	12	-
851	Rampal A., Singh M., Mahajan S., Bedi N.	Formulation and characterization of hpmc and hpmcas based solid dispersions of fenofibrate: A comparative study	International Journal of Applied Pharmaceutics	2019	-	1	-
852	Bhanwer A.J.S.	On Development of typological classification and its relationship to microdifferentiation in ethnic India By KC Malhotra and TS Vasulu	Journal of Biosciences	2019	-	-	-



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853	Sharma G., Kalra S.	A Lightweight User Authentication Scheme for Cloud-IoT Based Healthcare Services	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2019	-	22	-
854	Kaur R., Rani A., Banipal P.K., Banipal T.S.	Study on interactions of vitamin B1 with sodium dodecyl sulfate for potential food applications: Conductometric, volumetric, calorimetric and spectroscopic approach	Journal of Molecular Liquids	2019	-	2	-
855	Singh L., Kaur A., Bhatti M.S., Bhatti R.	Possible Molecular Mediators Involved and Mechanistic Insight into Fibromyalgia and Associated Co-morbidities	Neurochemical Research	2019	-	9	-
856	Sharma S., Nagpal A.K., Kaur I.	Appraisal of heavy metal contents in groundwater and associated health hazards posed to human population of Ropar wetland, Punjab, India and its environs	Chemosphere	2019	-	24	-
857	Sood S.K., Singh K.D.	SNA Based Resource Optimization in Optical Network using Fog and Cloud Computing	Optical Switching and Networking	2019	-	16	-
858	Gupta N.M., Mehra M.L., Malhotra P.	Factors affecting mortality prototype in murrah buffaloes: A review	Buffalo Bulletin	2019	-	-	-
859	Atwal H., Sandhu V.	Development and description of conceptual model related to employee engagement in organizations	International Journal of Engineering and Advanced Technology	2019	-	1	-
860	Bohmrah M.K., Kaur H.	Autonomic fog computing: Towards sustainable and reliable integration of cloud & internet of things	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	-
861	Malik S.S., Mazumdar I.	Role of F-spin multiplets in identical band phenomena in normal deformed nuclei	Nuclear Physics A	2019	-	2	-
862	Rani A., Legac J., Rosenthal P.J., Kumar V.	Substituted 1,3-dioxoisindoline-4-aminoquinolines coupled via amide linkers: Synthesis, antiplasmodial and cytotoxic evaluation	Bioorganic Chemistry	2019	-	6	-
863	Singh P., Dureja J.S., Singh H., Bhatti M.S.	Nanofluid-based minimum quantity lubrication (MQL) face milling of inconel 625	International Journal of Automotive and Mechanical Engineering	2019	-	1	-
864	Bansal S., Gill T.S., Aggarwal M.	Oblique modulation of electron acoustic waves in nonextensive plasma	Physics of Plasmas	2019	-	4	-
865	Singh M., Saini N.S., Kourakis I.	Kinetic Alfvén solitary waves in a plasma with two-temperature superthermal electron populations: The case of Saturn's magnetosphere	Monthly Notices of the Royal Astronomical Society	2019	-	1	-



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866	Kamboj R., Sandhu R.S., Kaler R.S.S., Bera M.B., Nanda V.	Optimization of process parameters on hydroxymethylfurfural content, diastase and invertase activity of coriander honey	Journal of Food Science and Technology	2019	-	2	-
867	Sarangal H., Singh A., Malhotra J.	Construction and analysis of a novel sac-ocdma system with edw coding using direct detection technique	Journal of Optical Communications	2019	-	5	-
868	Shalini, Johansen M.D., Kremer L., Kumar V.	Design, synthesis, anti-mycobacterial and cytotoxic evaluation of C-4 functionalized 1,8-naphthalimide-heterocyclic hydrazide conjugates	Chemical Biology and Drug Design	2019	-	3	-
869	Sharma A., Shahzad B., Kumar V., Kohli S.K., Sidhu G.P.S., Bali A.S., Handa N., Kapoor D., Bhardwaj R., Zheng B.	Phytohormones regulate accumulation of osmolytes under abiotic stress	Biomolecules	2019	-	126	-
870	Hans M., Kumar S.	Biohythane production in two-stage anaerobic digestion system	International Journal of Hydrogen Energy	2019	-	30	-
871	Singla P., Singh O., Sharma S., Betlem K., Aswal V.K., Peeters M., Mahajan R.K.	Temperature-Dependent Solubilization of the Hydrophobic Antiepileptic Drug Lamotrigine in Different Pluronic Micelles - A Spectroscopic, Heat Transfer Method, Small-Angle Neutron Scattering, Dynamic Light Scattering, and in Vitro Release Study	ACS Omega	2019	-	11	-
872	Mandial D., Khullar P., Gupta V., Kumar H., Singh N., Ahluwalia G.K., Bakshi M.S.	Role of Gluten in Surface Chemistry: Nanometallic Bioconjugation of Hard, Medium, and Soft Wheat Protein	Journal of Agricultural and Food Chemistry	2019	-		-
873	Sandhu A., Singh B.	Board composition and corporate reporting on internet: Indian evidence	Journal of Financial Reporting and Accounting	2019	-	2	-
874	Singh G., Singh A., Singh P., Bhatti R.	Bergapten Ameliorates Vincristine-Induced Peripheral Neuropathy by Inhibition of Inflammatory Cytokines and NFκB Signaling	ACS Chemical Neuroscience	2019	-	7	-
875	Singh I., Kaur B., Khun Khun K.	Simulating longitudinal vibrations of coupled oscillator using the fourth-order Runge-Kutta method by programming spreadsheet	European Journal of Physics	2019	-	1	-
876	Singh P., Kahlon K.S., Kaur H., Sawhney R.S.	Do people virtually support their favorite cricket team? Insights from 2018 Asia Cup	ACM International Conference Proceeding Series	2019	-		-



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877	Bajaj R., Singh N., Kaur A.	Properties of octenyl succinic anhydride (OSA) modified starches and their application in low fat mayonnaise	International Journal of Biological Macromolecules	2019	-	18	-
878	Chopra G., Chopra N., Kaur D.	Elucidating the intermolecular hydrogen bonding interaction of proline with amides—quantum chemical calculations	Structural Chemistry	2019	-	2	-
879	Siroha A.K., Sandhu K.S., Kaur M., Kaur V.	Physicochemical, rheological, morphological and in vitro digestibility properties of pearl millet starch modified at varying levels of acetylation	International Journal of Biological Macromolecules	2019	-	8	-
880	Singh G., Sandhu H.S., Sharma R., Srinivas Y., Matharoo K., Singh M., Bhanwer A.J.S.	Genetic variation and population structure of five ethnic groups from Punjab, North-West India: Analysis of MHC class I polymorphic Alu insertions (POALINs)	Gene	2019	-	1	-
881	Bali S., Jamwal V.L., Kaur P., Kohli S.K., Ohri P., Gandhi S.G., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ahmad P.	Role of P-type ATPase metal transporters and plant immunity induced by jasmonic acid against Lead (Pb) toxicity in tomato	Ecotoxicology and Environmental Safety	2019	-	18	-
882	Kaur V., Chattopadhyay D., Kaur S., Kaur M.	Fibrous raw material of bamboo origin with improved fibrillation and spinnability	Journal of the Textile Institute	2019	-	-	-
883	Kaur R., Kaur A., Kaur K.	Ultra-morphology of the scale as an indicator of the stress of Acid Black-1 (AB-1, CI: 20470) and zinc (Zn)	Environmental Science and Pollution Research	2019	-	-	-
884	Singh S., Singh J., Kaur A., Kaur J., Vig A.P., Bhat S.A.	Nutrient recovery from pigeon dropping by using exotic earthworm <i>Eisenia fetida</i>	Sustainable Chemistry and Pharmacy	2019	-	4	-
885	Aulakh G.S., Singh G., Singh A.	Studies on intercropping of maize ( <i>zea mays</i> l.) with pea ( <i>pisum sativum</i> l.) genotype	Indian Journal of Ecology	2019	-	-	-
886	Preet K., Ahluwalia A.K.	Factors of stress amongst students of professional institutes	Prabandhan: Indian Journal of Management	2019	-	-	-
887	Kaur J., Singh M.L.	User assisted cooperative relaying in beamspace massive MIMO NOMA based systems for millimeter wave communications	China Communications	2019	-	6	-
888	Anand R., Singh B.	Effect of Composition of Board and Promoter Group Retained Ownership on Underpricing of Indian IPO firms: An Empirical Study	Indian Journal of Corporate Governance	2019	-	-	-
889	Gandhi G., Sharma R., Kaur G.	Traditional Indian sports – A case-control study on Kho Kho players investigating genomic instability and oxidative stress as a function of metabolic genotypes	Heliyon	2019	-	-	-



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890	Pubby K., Bindra Narang S.	Influence of grain size and porosity on X-band properties of Mn-Zr substituted Ni-Co ferrites	Materials Letters	2019	-	19	-
891	Angurala M., Bala M., Bamber S.S.	Re-powering technique to compare its suitability with on-demand distance vector routing protocols	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	-
892	Angurala M., Bala M., Bamber S.S.	Use of energy replenishment model to find optimum radio propagation model in wireless sensor networks	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	-
893	Singh B., Singh G., Sidhu B.S., Bhatia N.	In-vitro assessment of HA-Nb coating on Mg alloy ZK60 for biomedical applications	Materials Chemistry and Physics	2019	-	16	-
894	Bhat S.A., Cui G., Li F., Vig A.P.	Biomonitoring of genotoxicity of industrial wastes using plant bioassays	Bioresource Technology Reports	2019	-	10	-
895	Parihar R.D., Singh D., Verma V., Sohal S.K., Kesavan A.K., Ohri P.	Biocontrol potential of <i>Distolabrellus veechi</i> isolate KPI (Nemata: Rhabditida) against cotton cutworm, <i>Spodoptera litura</i> (Lepidoptera: Noctuidae)	Indian Journal of Nematology	2019	-	1	-
896	Kaur S., Singh S., Singh L.	Opto-electric and physio-chemical changes in oxygen ion irradiated natural Vermiculite mineral	Applied Radiation and Isotopes	2019	-	-	-
897	Gupta N., Hirdesh, Kaur R., Khanna A., Singh S., Gupta B.K.	Spatially resolved X-ray fluorescence, Raman and photoluminescence spectroscopy of Eu <sup>3+</sup> /Er <sup>3+</sup> doped tellurite glasses and anti-glasses	Journal of Non-Crystalline Solids	2019	-	9	-
898	Punia S., Siroha A.K., Sandhu K.S., Kaur M.	Rheological behavior of wheat starch and barley resistant starch (type IV) blends and their starch noodles making potential	International Journal of Biological Macromolecules	2019	-	13	-
899	Kaur J., Balabanski D.L., Georgiev G., Constantin P.	Prospective of nuclear magnetic moment measurements by photofission reactions at ELI-NP	Hyperfine Interactions	2019	-	-	-
900	Mohammed J., Tchouank Tekou Carol T., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Electromagnetic interference (EMI) shielding, microwave absorption, and optical sensing properties of BaM/CCTO composites in Ku-band	Results in Physics	2019	-	18	-
901	Bhagat K., Bhagat J., Gupta M.K., Singh J.V., Gulati H.K., Singh A., Kaur K., Kaur G., Sharma S., Rana A., Singh H., Sharma S., Bedi P.M.S.	Design, synthesis, antimicrobial evaluation, and molecular modeling studies of novel indolinedione-coumarin molecular hybrids	ACS Omega	2019	-	26	-



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902	Kaur A., Sood S.K.	Analytical mapping of research on disaster management, types and role of ICT during 2011–2018	Environmental Hazards	2019	-	5	-
903	Thakur S., Thakur V., Kaur A., Singh L.	Structural, optical and thermal properties of nickel doped bismuth borate glasses	Journal of Non-Crystalline Solids	2019	-	33	-
904	Singh J., Verma V., Kumar R., Sharma S., Kumar R.	Effect of structural and thermal disorder on the optical band gap energy of Cr <sub>2</sub> O <sub>3</sub> nanoparticles	Materials Research Express	2019	-	2	-
905	Basotra N., Dhiman S.S., Agrawal D., Sani R.K., Tsang A., Chadha B.S.	Characterization of a novel Lytic Polysaccharide Monoxygenase from <i>Malbranchea cinnamomea</i> exhibiting dual catalytic behavior	Carbohydrate Research	2019	-	13	-
906	Arora S., Kaur H.	Exploring the bank selection criteria in India: scale development and validation	International Journal of Bank Marketing	2019	-	1	-
907	Kalia N., Singh J., Sharma S., Kaur M.	Impact of SNPs interplay across the locus of MBL2, between MBL and Dectin-1 gene, on women's risk of developing recurrent vulvovaginal infections	Cell and Bioscience	2019	-	6	-
908	Thakur K., Kaur T., Kaur M., Hora R., Singh J.	Exploration of carbohydrate binding behavior and anti-proliferative activities of <i>Arisaema tortuosum</i> lectin	BMC Molecular Biology	2019	-	1	-
909	Singh T., Dureja J.S., Dogra M., Bhatti M.S.	Multi-response optimization in environment friendly turning of AISI 304 austenitic stainless steel	Multidiscipline Modeling in Materials and Structures	2019	-	4	-
910	Shiekh B.A., Kaur D., Godara S.K.	Unprecedented synthesis of symmetrical azines from alcohols and hydrazine hydrate using nickel based NNN-pincer catalyst: An experimental and computational study	Catalysis Communications	2019	-	7	-
911	Singh R., Bahel S., Narang S.B.	Dielectric and microwave reflection properties of M-phase LNT (Li-Nb-Ti-O) solid solutions in X-band frequency range	Journal of Alloys and Compounds	2019	-	5	-
912	Ahmad Mir N., Ashutosh A., Ahmad Shergojry S., Ahmed Wani S., Ahmad Sheikh F.	Effect of induced transportation stress in goats supplemented with vitamin C and jaggery during hot dry season	Biological Rhythm Research	2019	-	1	-
913	Chopra N., Chopra G., Kaur D.	Exploring the Role of Consecutive Addition of Nitrogen Atoms on Stability and Reactivity of Hydrogen-Bonded Azine-Water Complexes	ACS Omega	2019	-	2	-
914	Bhatia S., Khanna A., Jain R.K., Hirdesh	Structure-property correlations in molybdenum trioxide thin films and nanoparticles	Materials Research Express	2019	-	2	-
915	Etherington M.K., Kukhta N.A., Higginbotham H.F., Danos A., Bismillah A.N., Graves D.R., McGonigal	Persistent Dimer Emission in Thermally Activated Delayed Fluorescence Materials	Journal of Physical Chemistry C	2019	-	33	-



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	P.R., Haase N., Morherr A., Batsanov A.S., Pflumm C., Bhalla V., Bryce M.R., Monkman A.P.						
916	Suri K., Singh B., Kaur A., Singh N.	Impact of roasting and extraction methods on chemical properties, oxidative stability and Maillard reaction products of peanut oils	Journal of Food Science and Technology	2019	-	11	-
917	Chaudhary P., Kumari R., Singh B., Hallan V., Nagpal A.K.	First report of potato virus M, potato virus Y and cucumber mosaic virus infection in Solanum nigrum in India	Journal of Plant Pathology	2019	-	2	-
918	Kaur L., Kumar A.	Performance analysis and comparison of parallel computing frameworks: Sips and openmp	2019 International Conference on Intelligent Computing and Control Systems, ICCS 2019	2019	-	-	-
919	Singh D., Thakur S., Thayil S.M., Kesavan A.K.	Characterization of a cold-active, detergent-stable metalloproteinase purified from Bacillus sp. S1DI 10 using Response Surface Methodology	PLoS ONE	2019	-	3	-
920	Katyal M., Kaur A., Singh N.	Evaluation of pasting and dough rheological properties of composite flours made from flour varied in gluten strength	Journal of Food Science and Technology	2019	-	1	-
921	Sharma P., Gupta N., Kaur S., Kaur S., Ohri P., Parihar R.D., Bhalla V., Kumar M.	Imaging of lysosomal activity using naphthalimide-benzimidazole based fluorescent probe in living cells	Sensors and Actuators, B: Chemical	2019	-	6	-
922	Kaur T., Thakur K., Singh J., Arora S., Kaur M.	Genotypic-Phenotypic Screening of Galectin-3 in Relation to Risk Towards Rheumatoid Arthritis in North Indian Population	Archives of Medical Research	2019	-	1	-
923	Mahadevan S., Narang S.B., Sharma P.	Effect of three-step calcination on structural, magnetic and microwave properties of BaFe 11.5 Ti 0.5 O 19 hexaferrite	Ceramics International	2019	-	7	-
924	Kaur I., Gupta A., Singh B.P., Sharma S., Kumar A.	Assessment of radon and potentially toxic metals in agricultural soils of Punjab, India	Microchemical Journal	2019	-	11	-
925	Kaur P., Verma G., Sekhon S.S.	Biomass derived hierarchical porous carbon materials as oxygen reduction reaction electrocatalysts in fuel cells	Progress in Materials Science	2019	-	41	-
926	Punia S., Siroha A.K., Sandhu K.S., Kaur M.	Rheological and pasting behavior of OSA modified mungbean starches and its utilization in cake formulation as fat replacer	International Journal of Biological Macromolecules	2019	-	13	-



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927	Pandey A., Saini B.S., Singh B., Sood N.	Complexity sorting and coupled chaotic map based on 2D ECG data compression-then-encryption and its OFDM transmission with impair sample correction	Multimedia Tools and Applications	2019	-	6	-
928	Handa N., Kohli S.K., Sharma A., Thukral A.K., Bhardwaj R., Abd_Allah E.F., Alqarawi A.A., Ahmad P.	Selenium modulates dynamics of antioxidative defence expression, photosynthetic attributes and secondary metabolites to mitigate chromium toxicity in Brassica juncea L. plants	Environmental and Experimental Botany	2019	-	39	-
929	Singh K., Malviya B.K., Verma V.P., Badsara S.S., Bhardwaj V.K., Sharma S.	Cationic Pd(II) catalyzed regioselective intramolecular hydroarylation for the efficient synthesis of 4-aryl-2-quinolones	Tetrahedron	2019	-	9	-
930	Khanna A., Kaur A., Fábán M., Krishna P.S.R., Shinde A.B.	Structure of $x\text{MoO}_3-(100-x)\text{TeO}_2$ glasses by neutron diffraction and Reverse Monte Carlo modeling	Materials Research Express	2019	-	3	-
931	Singh J., Bahel S.	Structural and dielectric properties of $(\text{Ba}_x\text{Mg}_{1-x})(\text{Ti}_{0.95}\text{Sn}_{0.05})\text{O}_3$ ( $x = 0.025, 0.05, 0.075$ and $0.1$ ) solid solutions	Journal of Materials Science: Materials in Electronics	2019	-	4	-
932	Singh P., Dureja J.S., Singh H., Bhatti M.S.	Performance comparison of coated carbide tool under different cooling/lubrication environments during face milling of Inconel-625 and Stainless Steel 304	World Journal of Engineering	2019	-	1	-
933	Deol S.S.	Sikh ethnonationalism and militancy: manifestation and prognosis	Asian Ethnicity	2019	-	2	-
934	Kumar S., Pal J., Kaur S., Malhi P.S., Singh M., Babu P.D., Singh A.	The structural and magnetic properties, non-Debye relaxation and hopping mechanism in $\text{Pb}_x\text{Nd}_{1-x}\text{FeO}_3$ (where $x = 0.1, 0.2$ and $0.3$ ) solid solutions	Journal of Asian Ceramic Societies	2019	-	12	-
935	Singh B., Singh J.P., Kaur A., Singh N.	Antimicrobial potential of pomegranate peel: a review	International Journal of Food Science and Technology	2019	-	19	-
936	Singh J.P., Kaur A., Singh B., Singh N., Singh B.	Physicochemical evaluation of corn extrudates containing varying buckwheat flour levels prepared at various extrusion temperatures	Journal of Food Science and Technology	2019	-	8	-
937	Kauts D.S., Kapatia P.	Innovative behavioral techniques to reduce stress among vii grade learners	International Journal of Recent Technology and Engineering	2019	-	-	-
938	Singh M., Malhotra J.	Performance comparison of high-speed long-reach mode division multiplexing-based radio over free space optics transmission system using different modulation formats under the effect of atmospheric turbulence	Optical Engineering	2019	-	17	-



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939	Singh J., Sharma S., Sharma S., Singh R.C.	Effect of tungsten doping on structural and optical properties of rutile TiO <sub>2</sub> and band gap narrowing	Optik	2019	-	20	-
940	Kaur H., Gill B.S.	Effect of high-intensity ultrasound treatment on nutritional, rheological and structural properties of starches obtained from different cereals	International Journal of Biological Macromolecules	2019	-	13	-
941	Sood S.K., Mahajan I.	IoT-fog-based healthcare framework to identify and control hypertension attack	IEEE Internet of Things Journal	2019	-	20	-
942	Mintu, Singh G., Malhi S.S., Mahajan M., Batra S., Bath R.S.	Anatomization of Detection and Performance Measures Techniques for Flooding Attacks using Routing Protocols in MANETs	2019 International Conference on Automation, Computational and Technology Management, ICACTM 2019	2019	-	1	-
943	Sharma M., Singh G., Singh R.	A review of different cost-based distributed query optimizers	Progress in Artificial Intelligence	2019	-	9	-
944	Singh S.K., Kaur R., Kumar A., Kaur R.	Myxococcus xanthus truncated globin HbO: in silico analysis and functional characterization	Molecular Biology Reports	2019	-	-	-
945	Lone M.Y., Kumar A., Husain S., Singh R.C., Zulfequar M., Husain M.	Fabrication of sensitive SWCNT sensor for trace level detection of reducing and oxidizing gases (NH <sub>3</sub> and NO <sub>2</sub> ) at room temperature	Physica E: Low-Dimensional Systems and Nanostructures	2019	-	4	-
946	Kumar V., Behl A., Kapoor P., Nayak B., Singh G., Singh A.P., Mishra S., Kang T.S., Mishra P.C., Hora R.	Inner membrane complex 11 protein of Plasmodium falciparum links membrane lipids with cytoskeletal element 'actin' and its associated motor 'myosin'	International Journal of Biological Macromolecules	2019	-	2	-
947	Gupta A., Kumar J., Narang J.K., Verma S., Singh H., Haque A.	Development and validation of a stability indicating UV-spectrophotometric assay method for the determination of naratriptan hydrochloride	Pertanika Journal of Science and Technology	2019	-	1	-
948	Kaur S., Bagga P., Hans R., Kaur H.	Quality of Service (QoS) Aware Workflow Scheduling (WFS) in Cloud Computing: A Systematic Review	Arabian Journal for Science and Engineering	2019	-	11	-
949	Pandey A., Singh B., Saini B.S., Sood N.	A novel fused coupled chaotic map based confidential data embedding-then-encryption of electrocardiogram signal	Biocybernetics and Biomedical Engineering	2019	-	6	-
950	Chadha B.S., Kaur B., Basotra N., Tsang A., Pandey A.	Thermostable xylanases from thermophilic fungi and bacteria: Current perspective	Bioresource Technology	2019	-	33	-
951	Shevkani K., Singh N., Rattan B., Singh J.P., Kaur A., Singh B.	Effect of chickpea and spinach on extrusion behavior of corn grit	Journal of Food Science and Technology	2019	-	5	-



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952	Mohammed J., Trudel T.T.C., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Design of nano-sized Pr <sup>3+</sup> -Co <sup>2+</sup> -substituted M-type strontium hexaferrites for optical sensing and electromagnetic interference (EMI) shielding in Ku band	Applied Physics A: Materials Science and Processing	2019	-	13	-
953	Kashyap R., Aggarwal M., Gill T.S., Arora N.S., Kumar H., Moudhgill D.	Self-focusing of q-Gaussian laser beam in relativistic plasma under the effect of light absorption	Optik	2019	-	1	-
954	Kumari P., Lal M., Kumar S., Rai R., Singh A., Karpinsky D.V., Bdkin I.	Comprehensive investigation of structural, dielectric and local piezoelectric properties of KNN ceramics	Journal of Advanced Dielectrics	2019	-	1	-
955	Padam R., Malhotra J.	Secure techniques for the UAV networks: A review	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	-	-	-
956	Bhatia A., Singh B., Arora R., Arora S.	In vitro evaluation of the $\alpha$ -glucosidase inhibitory potential of methanolic extracts of traditionally used antidiabetic plants	BMC Complementary and Alternative Medicine	2019	-	15	-
957	Singh A., Sharma S., Singh G., Singh R.	Machine learning configurations for enhanced human protein function prediction accuracy	Smart Computational Strategies: Theoretical and Practical Aspects	2019	-	-	-
958	Kaur M., Singh G., Kaur A., Sharma P.K., Kang T.S.	Thermally Stable Ionic Liquid-Based Microemulsions for High-Temperature Stabilization of Lysozyme at Nanointerfaces	Langmuir	2019	-	7	-
959	Kaur H., Kaur M., Walia P.K., Kumar M., Bhalla V.	Encapsulating Au-Fe <sub>3</sub> O <sub>4</sub> Nanodots into AIE-active Supramolecular Assemblies: Ambient Visible-light Harvesting "Dip-Strip" Photocatalyst for C-C/C-N Bond Formation Reactions	Chemistry - An Asian Journal	2019	-	7	-
960	Kaur T., Bhardwaj R., Arora S.	Evaluating groundwater for its probable mutagenicity and genotoxicity using in vitro bioanalytical tools	Exposure and Health	2019	-	1	-
961	Soni N., Saini I., Singh B.	A morphologically robust chaotic map based approach to embed patient's confidential data securely in non-QRS regions of ECG signal	Australasian Physical and Engineering Sciences in Medicine	2019	-	3	-
962	Singh S., Kaur M., Sogi D.S., Purewal S.S.	A comparative study of phytochemicals, antioxidant potential and in-vitro DNA damage protection activity of different oat (Avena sativa) cultivars from India	Journal of Food Measurement and Characterization	2019	-	6	-



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963	Kaur P., Purewal S.S., Sandhu K.S., Kaur M., Salar R.K.	Millets: a cereal grain with potent antioxidants and health benefits	Journal of Food Measurement and Characterization	2019	-	13	-
964	Singh A.P., Singh N., Pathak D., Bedi P.M.S.	Estradiol attenuates ischemia reperfusion-induced acute kidney injury through PPAR- $\gamma$ stimulated eNOS activation in rats	Molecular and Cellular Biochemistry	2019	-	12	-
965	Kumar K., Singh H., Vanita V., Singh R., Joshi K.B., Bhargava G., Kumar S., Singh P.	Coronene diimide-based self-assembled (fibre-to-disc) fluorescent aggregates for visualization of latent fingerprints	Sensors and Actuators, B: Chemical	2019	-	11	-
966	Kaur P., Bali S., Sharma A., Kohli S.K., Vig A.P., Bhardwaj R., Thukral A.K., Abd-Allah E.F., Wijaya L., Alyemeni M.N., Ahmad P.	Cd induced generation of free radical species in Brassica juncea is regulated by supplementation of earthworms in the drilosphere	Science of the Total Environment	2019	-	16	-
967	Kaur K.	Efficient and Fast Copy Move Image Forgery Detection Technique	Proceedings of the 2nd International Conference on Intelligent Computing and Control Systems, ICICCS 2018	2019	-	-	-
968	Singh G., Singh G., Kancharla S., Kang T.S.	Complexation Behavior of $\beta$ -Lactoglobulin with Surface Active Ionic Liquids in Aqueous Solutions: An Experimental and Computational Approach	Journal of Physical Chemistry B	2019	-	7	-
969	Rani A., Anand A., Kumar K., Kumar V.	Recent developments in biological aspects of chalcones: the odyssey continues	Expert Opinion on Drug Discovery	2019	-	24	-
970	Bhat M.A., Gandhi G.	Elevated oxidative DNA damage in patients with coronary artery disease and its association with oxidative stress biomarkers	Acta Cardiologica	2019	-	4	-
971	Ghumman A., Singh N., Kaur A., Rana J.C.	Diversity in protein secondary structure, molecular weight, mineral and amino acid composition of lentil and horse gram germplasm	Journal of Food Science and Technology	2019	-	3	-
972	Rajput S., Arora S., Kaur R.	Assessment of spatio-temporal variation in pond water quality: A case study	Indian Journal of Environmental Protection	2019	-	-	-
973	Vasudev A., Sohal S.K.	Negative effect of non-host protease inhibitors partially purified from Cassia glauca seeds on developmental physiology of Spodoptera litura	International Journal of Tropical Insect Science	2019	-	1	-



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974	Kaur A., Singh R.C.	Temperature sensor based on exfoliated graphene sheets produced by microwave assisted freezing induced volumetric expansion of carbonated water	Journal of Materials Science: Materials in Electronics	2019	-	4	-
975	Kaur J., Singh H.	Synthesis and fabrication of zinc oxide nanostrands based piezoelectric nanogenerator	Journal of Materials Science: Materials in Electronics	2019	-	4	-
976	Dogra M., Singh K.J., Kaur K.	Investigation of $\gamma$ ray shielding, structural and dissolution rate studies of alkali based bismuth borate glass systems with MoO <sub>3</sub> added	Radiochimica Acta	2019	-	1	-
977	Kaur P., Singh G., Kaur P.	An intelligent validation system for diagnostic and prognosis of ultrasound fetal growth analysis using Neuro-Fuzzy based on genetic algorithm	Egyptian Informatics Journal	2019	-	5	-
978	Misra A.P., Saini N.S.	Dust-acoustic solitary waves and shocks in nonthermal plasmas	2019 URSI Asia-Pacific Radio Science Conference, AP-RASC 2019	2019	-	-	-
979	Satija M.P., Martínez-ávila D.	Plagiarism: An essay in terminology	DESIDOC Journal of Library and Information Technology	2019	-	4	-
980	Gupta V., Singh I., Kumar P., Rasool S., Verma V.	A hydrolase with esterase activity expressed from a fosmid gene bank prepared from DNA of a North West Himalayan glacier frozen soil sample	3 Biotech	2019	-	1	-
981	Kaur M., Chadha P., Kaur S., Kaur A., Kaur R., Yadav A.K., Kaur R.	Evaluation of genotoxic and cytotoxic effects of ethyl acetate extract of <i>Aspergillus flavus</i> on <i>Spodoptera litura</i>	Journal of Applied Microbiology	2019	-	6	-
982	Singh G., Bhanwer A.J.S.	Distribution of angiotensin converting enzyme gene (insertion/deletion) polymorphism in Indian populations	Gene Reports	2019	-	1	-
983	Singh G., Virpal, Singh R.C.	Highly sensitive gas sensor based on Er-doped SnO <sub>2</sub> nanostructures and its temperature dependent selectivity towards hydrogen and ethanol	Sensors and Actuators, B: Chemical	2019	-	46	-
984	Narang S.B., Arora A.	Broad-band microwave absorption and magnetic properties of M-type Ba(1-2x)LaxNaxFe10Co0.5TiMn0.5O19 hexagonal ferrite in 18.0–26.5 GHz frequency range	Journal of Magnetism and Magnetic Materials	2019	-	16	-
985	Sharma T., Sharma A., Kaur I., Mahajan R.K., Litoria P.K., Sahoo S.K., Bajwa B.S.	Uranium distribution in groundwater and assessment of age dependent radiation dose in Amritsar, Gurdaspur and Pathankot districts of Punjab, India	Chemosphere	2019	-	19	-



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986	Khanna K., Jamwal V.L., Kohli S.K., Gandhi S.G., Ohri P., Bhardwaj R., Wijaya L., Alyemeni M.N., Ahmad P.	Role of plant growth promoting Bacteria (PGPRs) as biocontrol agents of Meloidogyne incognita through improved plant defense of Lycopersicon esculentum	Plant and Soil	2019	-	14	-
987	Mohammed J., Carol T. T.T., Hafeez H.Y., Adamu B.I., Wudil Y.S., Takai Z.I., Godara S.K., Srivastava A.K.	Tuning the dielectric and optical properties of Pr–Co–substituted calcium copper titanate for electronics applications	Journal of Physics and Chemistry of Solids	2019	-	24	-
988	Mohammed J., Tekou Carol T., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Lightweight SrM/CCTO/rGO nanocomposites for optoelectronics and K u band microwave absorption	Journal of Materials Science: Materials in Electronics	2019	-	19	-
989	Sran B.S., Sharma S., Hundal G.	Self-assembly and supramolecular isomerism in copper (II) coordination compounds of pyridine-4-carboxamide based ligand	Inorganica Chimica Acta	2019	-	3	-
990	Bansal D., Kumar Y., Rustam, Kumar S., Mandal K., Hundal G., Mukhopadhyay P.	Core-insertion of palladium in naphthalenediimides: Opto-electronic properties, structural insights and coupling studies	Inorganica Chimica Acta	2019	-	2	-
991	Sharma M., Manhas R.K.	Purification and characterization of actinomycins from Streptomyces strain M7 active against methicillin resistant Staphylococcus aureus and vancomycin resistant Enterococcus	BMC Microbiology	2019	-	9	-
992	Katyal M., Singh N., Chopra N., Kaur A.	Hard, medium-hard and extraordinarily soft wheat varieties: Comparison and relationship between various starch properties	International Journal of Biological Macromolecules	2019	-	8	-
993	Arora D.S., Kaur N.	Antimicrobial Potential of Fungal Endophytes from Moringa oleifera	Applied Biochemistry and Biotechnology	2019	-	5	-
994	Kaur I., Sharma V., Mobin S.M., Kaur P., Singh K.	Excitation wavelength based reversible multicolour photoluminescence by a single chromophore upon aggregation: Detection of picric acid-application in bioimaging	Sensors and Actuators, B: Chemical	2019	-	13	-
995	Nisar K.S., Sarangal H., Thapar S.S.	Performance evaluation of newly constructed NZCC for SAC-OCDMA using direct detection technique	Photonic Network Communications	2019	-	8	-



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996	Kaur R., Singh J., Kapoor R., Kaur M.	Association of SELP Polymorphisms with Soluble P-Selectin Levels and Vascular Risk in Patients with Type 2 Diabetes Mellitus: A Case–Control Study	Biochemical Genetics	2019	-	4	-
997	Moudgil L., Jaiswal J., Mittal A., Saini G.S.S., Singh G., Kaura A.	Understanding the mechanism of adsorption of CTAB and polylysine on silver nanoparticles and detection of Hg 2+ : Experimental and DFT study	Journal of Molecular Liquids	2019	-	9	-
998	Chandra P., Arora D.S., Pal M., Sharma R.K.	Antioxidant Potential and Extracellular Auxin Production by White Rot Fungi	Applied Biochemistry and Biotechnology	2019	-	6	-
999	Jaiswal N., Agarwal N., Kaur A., Tripathy S., Gahlay G.K., Arora A., Mitthu V.S., Poluri K.M., Kumar D.	Molecular interaction between human SUMO-I and histone like DNA binding protein of Helicobacter pylori (Hup) investigated by NMR and other biophysical tools	International Journal of Biological Macromolecules	2019	-	6	-
1000	Kapoor S., Brazete D., Pereira I.C., Bhatia G., Kaur M., Santos L.F., Banerjee D., Goel A., Ferreira J.M.F.	Impact of transition metal ions on the structure and bioactivity of alkali-free bioactive glasses	Journal of Non-Crystalline Solids	2019	-	9	-
1001	Aggarwal N., Sharma M., Banipal T.S., Banipal P.K.	Influence of Phosphate-Based Salts on Enthalpy of Dilution and Isentropic Compressibility Properties of Saccharides and Their Derivatives in Aqueous Solutions	Journal of Chemical and Engineering Data	2019	-	5	-
1002	Saini S., Katnoria J.K., Kaur I.	A comparative study for removal of cadmium(II) ions using unmodified and NTA-modified Dendrocalamus strictus charcoal powder	Journal of Environmental Health Science and Engineering	2019	-	5	-
1003	Katyal M., Singh N., Singh H.	Effects of incorporation of groundnut oil and hydrogenated fat on pasting and dough rheological properties of flours from wheat varieties	Journal of Food Science and Technology	2019	-	3	-
1004	Bajaj R., Singh N., Kaur A.	Effect of native and gelatinized starches from various sources on sponge cake making characteristics of wheat flour	Journal of Food Science and Technology	2019	-	6	-
1005	Kumar V., Sharma A., Bhardwaj R., Thukral A.K.	Elemental Composition of Plants and Multivariate Analysis	National Academy Science Letters	2019	-	4	-
1006	Kumari A., Kaur R., Kaur R.	A review on fate and remediation techniques of oil spills	International Journal of Research in Pharmaceutical Sciences	2019	-	4	-
1007	Dhir K., Chhabra A.	Automated employee evaluation using fuzzy and neural network synergism through IoT assistance	Personal and Ubiquitous Computing	2019	-	6	-



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1008	Paul M.	Emotional intelligence: a analytical study of basketball players	International Journal of Current Research and Review	2019	-		-
1009	Kaur S., Singh M., Priyanka, Singh H., Singh M.L.	Design and Performance Analysis of 2x2 electro-optic based MZI switch using Ti:LiNbO <sub>3</sub> as a waveguide at 1.46 $\mu$ m	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	2019	-		-
1010	Bhatia S., Malhotra J.	Forensic Based Cloud Computing Architecture-Exploration and Implementation	2019 Proceedings of the 3rd International Conference on Computing and Communications Technologies, ICCCT 2019	2019	-	2	-
1011	Kaur M., Singh S.	Influence of heat-moisture treatment (HMT) on physicochemical and functional properties of starches from different Indian oat ( <i>Avena sativa</i> L.) cultivars	International Journal of Biological Macromolecules	2019	-	17	-
1012	Kaur H., Singh P.	Rationally designed molecules for resurgence of cyanide mitigated cytochrome c oxidase activity	Bioorganic Chemistry	2019	-		-
1013	Singh Minhas A., Sharma N., Kankar P.K., Singh S.	A comparative study for the selection of an entropy technique to classify bearing faults	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	2019	-	2	-
1014	Aulakh J.K., Sharma S., Sood H., Arora D.S., Kaur M., Jasinski J.P., Lobana T.S.	Synthesis, antimicrobial activity and high cell viability of copper derivatives of 2-thiouracil, purine-6-thione and 2,4,6-trimercaptotriazine	Journal of Coordination Chemistry	2019	-	2	-
1015	Brar K.K., Agrawal D., Chadha B.S., Lee H.	Evaluating novel fungal secretomes for efficient saccharification and fermentation of composite sugars derived from hydrolysate and molasses into ethanol	Bioresource Technology	2019	-	14	-
1016	Bhatia S., Kaur N., Singh I.R., Vanita V.	A novel mutation in MERTK for rod-cone dystrophy in a North Indian family	Canadian Journal of Ophthalmology	2019	-	4	-



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1017	Seth R., Bhandawat A., Parmar R., Singh P., Kumar S., Sharma R.K.	Global transcriptional insights of pollen-pistil interactions commencing self-incompatibility and fertilization in tea [camellia sinensis (L.) O. kuntze]	International Journal of Molecular Sciences	2019	-	7	-
1018	Tanveer M., Shahzad B., Sharma A., Khan E.A.	24-Epibrassinolide application in plants: An implication for improving drought stress tolerance in plants	Plant Physiology and Biochemistry	2019	-	35	-
1019	Kaur A., Hirdesh, Khanna A., Fábíán M., Krishna P.S.R., Shinde A.B.	Structure of lead tellurite glasses and its relationship with stress-optic properties	Materials Research Bulletin	2019	-	10	-
1020	Khanna K., Jamwal V.L., Kohli S.K., Gandhi S.G., Ohri P., Bhardwaj R., Abd_Allah E.F., Hashem A., Ahmad P.	Plant growth promoting rhizobacteria induced Cd tolerance in <i>Lycopersicon esculentum</i> through altered antioxidative defense expression	Chemosphere	2019	-	25	-
1021	Kumar V., Sharma A., Kaur P., Singh Sidhu G.P., Bali A.S., Bhardwaj R., Thukral A.K., Cerda A.	Pollution assessment of heavy metals in soils of India and ecological risk assessment: A state-of-the-art	Chemosphere	2019	-	100	-
1022	Sekhon J.S., Sharma S.	Involuntary migration in the border belt of Indian Punjab	Deterritorialised Identity and Transborder Movement in South Asia	2019	-		-
1023	Makkar C., Singh J., Parkash C.	Modulatory role of vermicompost and vermiwash on growth, yield and nutritional profiling of <i>Linum usitatissimum</i> L. (Linseed): a field study	Environmental Science and Pollution Research	2019	-	3	-
1024	Datta R., Kaur A., Saraf I., Singh I.P., Kaur S.	Effect of crude extracts and purified compounds of <i>Alpinia galanga</i> on nutritional physiology of a polyphagous lepidopteran pest, <i>Spodoptera litura</i> (Fabricius)	Ecotoxicology and Environmental Safety	2019	-	15	-
1025	Kaur H., Kaur K.	Connecting the dots between brand logo and brand image	Asia-Pacific Journal of Business Administration	2019	-	3	-
1026	Arora M., Kaur A.	Scanning electron microscopy for analysing maturity of compost/vermicompost from crop residue spiked with cattle dung, <i>Azolla pinnata</i> and <i>Aspergillus terreus</i>	Environmental Science and Pollution Research	2019	-	1	-
1027	Kaur J., Kumar V., Singh A.P., Singh V., Bisht A., Dube T., Panda J.J., Behl A., Mishra P.C., Hora R.	<i>Plasmodium falciparum</i> protein 'pfj23' hosts distinct binding sites for major virulence factor 'pfemp1' and maurer's cleft marker 'pfsbp1'	Pathogens and Disease	2019	-	1	-



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1028	Thapar S.S., Sarangal H.	A Study of Data Threats and the Role of Cryptography Algorithms	2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference, IEMCON 2018	2019	-	4	-
1029	Kaur A., Kaur S., Sharma M., Kaur I.	Self-assembled monolayers of 3-Hydroxy-N-(5-mercapto-1,3,4-thiadiazol-2-yl) benzamide (HMTB): A platform for Impedimetric sensing of Co(II)	Journal of Electroanalytical Chemistry	2019	-	4	-
1030	Sheetal A., Singh H., Kaur A.	QRS detection of ECG signal using hybrid derivative and MaMeMi filter by effectively eliminating the baseline wander	Analog Integrated Circuits and Signal Processing	2019	-	7	-
1031	Singh D., Tiwary A.K., Bedi N.	Canagliflozin loaded SMEDDS: formulation optimization for improved solubility, permeability and pharmacokinetic performance	Journal of Pharmaceutical Investigation	2019	-	26	-
1032	Kaur P., Robin, Mehta R.G., Singh B., Arora S.	Development of aqueous-based multi-herbal combination using principal component analysis and its functional significance in HepG2 cells	BMC Complementary and Alternative Medicine	2019	-	12	-
1033	Sharma R., Lobana T.S., Castineiras A., Butcher R.J., Akitsu T.	The influence of substituents at C2/N1 atoms of pyridine-2-formaldehyde-/benzaldehyde-N1-substituted thiosemicarbazones on the type of copper(I) complexes	Polyhedron	2019	-	2	-
1034	Malhotra N., Bala M.	Fault Diagnosis in Wireless Sensor Networks - A Survey	Proceedings - 4th International Conference on Computing Sciences, ICCS 2018	2019	-		-
1035	Kaur N., Jindal G., Sukhvinder, Kumar S.	Cascade recognition of Hg <sup>2+</sup> and cysteine using a naphthalene based ES IPT sensor and its application in a set/reset memorized device	New Journal of Chemistry	2019	-	10	-
1036	Kaur P., Singh K.J., Thakur S., Singh P., Bajwa B.S.	Investigation of bismuth borate glass system modified with barium for structural and gamma-ray shielding properties	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2019	-	123	-
1037	Kaur I., Kaur P., Singh H.	An empirical evaluation of an advanced version control tool in conflict detection and resolution	International Journal of Computers and Applications	2019	-		-
1038	Kaur M., Tung S.	Cognitive reasoning processes and identity achievement: Mediating role of identity processing styles	Pakistan Journal of Psychological Research	2019	-	-	-



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1039	Sood S.K., Deep Singh K.	HMM-Based Secure Framework for Optical Fog Devices in the Optical Fog/Cloud Network	Journal of Optical Communications	2019	-	3	-
1040	Singh N., Singh S., Shevkani K.	Maize: Composition, bioactive constituents, and unleavened bread	Flour and Breads and Their Fortification in Health and Disease Prevention	2019	-	6	-
1041	Anand A., Singh P., Kumar V., Bhargava G.	Transition metal catalyzed [6 + 2] cycloadditions	RSC Advances	2019	-	2	-
1042	Singh H.R., Kaur A.	Effect of pruning intensity and time on yield and quality of guava cv. L-49	Research on Crops	2019	-	1	-
1043	Singh A., Kaur J.	Occurrence of human urogenital myiasis due to neglected personal hygiene: A review	Transactions of the Royal Society of Tropical Medicine and Hygiene	2019	-	5	-
1044	Qamar Z., Qizilbash F.F., Iqbal M.K., Ali A., Narang J.K., Ali J., Baboota S.	Nano-based drug delivery system: Recent strategies for the treatment of ocular disease and future perspective	Recent Patents on Drug Delivery and Formulation	2019	-	6	-
1045	Kaur K., Singh N., Dhawan R.K.	Exploring the role of dimethylarginine dimethylaminohydrolasemediated reduction in tissue asymmetrical dimethylarginine levels in cardio-protective mechanism of ischaemic postconditioning in rats	Iranian Journal of Basic Medical Sciences	2019	-		-
1046	Singh I., Kaur B.	Using a digital storage oscilloscope to visualise the induced EMF of a magnet passing through a solenoid	Physics Education	2019	-	-	-
1047	Kaur J., Kaur S.	A survey of efficient trust management schemes in mobile ad-hoc network: Reliable trust management framework of MANET	International Journal of Business Data Communications and Networking	2019	-	-	-
1048	Singh A., Singh D.	Traumatic myiasis of the scalp in a 3-year-old patient- a case of neglected health care	Malaysian Journal of Medicine and Health Sciences	2019	-	1	-
1049	Singh I., Khun K.K., Kaur B.	Visualizing the trajectory of a charged particle in electric and magnetic fields using an Excel spreadsheet	Physics Education	2019	-	3	-
1050	Sohal M.K., Singh R.C., Mahajan A.	Electron beam evaporated tin oxide thin films for thermistor applications	Materials Today: Proceedings	2019	-	1	-
1051	Kaur N., Mahajan A., Singh D.P.	Substrate induced effects on structural, optical and electrical properties of lead (II)tetrakis (4-cumylphenoxy) phthalocyanine thin films	Materials Today: Proceedings	2019	-	-	-



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1052	Kaur A., Dar Z.I., Kaur S., Kaur P.	EIT-based giant self-kerr-nonlinear behavior of multilevel X-scheme	Materials Today: Proceedings	2019	-	-	-
1053	Rai R., Agrawal D., Chadha B.S.	New paradigm in degradation of lignocellulosic biomass and discovery of novel microbial strains	Microbial Diversity in Ecosystem Sustainability and Biotechnological Applications: Volume 2. Soil & Agroecosystems	2019	-	-	-
1054	Chadha B.S., Rai R., Mahajan C.	Hemicellulases for lignocellulosics-based bioeconomy	Biomass, Biofuels, Biochemicals: Biofuels: Alternative Feedstocks and Conversion Processes for the Production of Liquid and Gaseous Biofuels	2019	-	-	-
1055	Singh H., Sharma A., Bhardwaj A., Kaur B., Badial K., Kaur S., Singh B.	Evaluation of antinociceptive effect of seed extracts of Eugenia jambolana Linn	Plant Archives	2019	-	-	-
1056	Kaur K., Mehta S.	Output, employment and productivity: Contribution of different technology intensive manufacturing industries of India	International Journal of Economic Policy in Emerging Economies	2019	-	-	-
1057	Sharma S., Singh G., Singh R.	Human protein function prediction enhancement using decision tree based machine learning approach	Communications in Computer and Information Science	2019	-	-	-
1058	Narang T.D.	On chebyshev centers in metric spaces	Publications de l'Institut Mathematique	2019	-	-	-
1059	Razdan K., Sahajpal N.S., Singh K., Singh H., Singh H., Jain S.K.	Formulation of sustained-release microspheres of cefixime with enhanced oral bioavailability and antibacterial potential	Therapeutic Delivery	2019	-	-	-
1060	Singh K., Malhotra J.	IoT and cloud computing based automatic epileptic seizure detection using HOS features based random forest classification	Journal of Ambient Intelligence and Humanized Computing	2019	-	6	-
1061	Sethi P., Saini N.S.	Dust-acoustic cnoidal waves in a magnetized quantum dusty plasma	Waves in Random and Complex Media	2019	-	5	-
1062	Kaur K., Kaur K.	Failure prediction, lead time estimation and health degree assessment for hard disk drives using voting based decision trees	Computers, Materials and Continua	2019	-	8	-



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1063	Bharti S., Singh H.	An Efficient Architectural Framework for Non-obtrusive and Instantaneous Real-Time Identification of Clones During the Software Development Process in IDE	Communications in Computer and Information Science	2019	-	1	-
1064	Kaur J., Kumar A., Dhingra D.S.	Rank Based Multi Path Job Execution Sequencing for Multi Cluster Environment to Find Shortest Path	Communications in Computer and Information Science	2019	-		-
1065	Singh P., Kumar K., Kahlon K.S., Sawhney R.S.	Can Tweets Predict Election Results? Insights from Twitter Analytics	Communications in Computer and Information Science	2019	-	2	-
1066	Kaur P.D., Malhotra J., Arora M.	Role of Perseverance and Persistence for Retaining and Stimulating MOOC Learners	Communications in Computer and Information Science	2019	-		-
1067	Singh K., Jain S.K., Razdan K., Singh H., Sahajpal N.S., Singh H., Singh A., Thakur S.	Formulation and evaluation of ferrous ascorbate floating tablets for the treatment of anaemia	Drug Delivery Letters	2019	-		-
1068	Walia P.K., Sharma M., Kumar M., Bhalla V.	UV light promoted 'Metal'/'Additive'-free oxidation of alcohols: Investigating the role of alcohols as electron donors	RSC Advances	2019	-	1	-
1069	Singh H., Sheetal A.	Suitability of FBG for Gain Flatness of 64 × 10 Gbps DWDM System Using Hybrid (EDFA+YDFA) Optical Amplifier in C + L Band up to 50 GHz (0.4 nm) Channel Spacing	Journal of Optical Communications	2019	-		-
1070	Grover A., Sheetal A.	Improved Performance Investigation of 10 Gb/s-10 GHz 4-QAM Based OFDM-Ro-FSO Transmission Link	Journal of Optical Communications	2019	-	3	-
1071	Grover A., Sheetal A.	Performance Analysis of 20 Gbit/s-40 GHz MDM-Ro-FSO Link Incorporating DPSK Modulation Scheme	Journal of Optical Communications	2019	-	1	-
1072	Sharma A., Sharma V., Chimni S.S.	Organocatalytic enantioselective conjugate addition of pyrazolin-5-ones to arylomethylidene malonates	Organic and Biomolecular Chemistry	2019	-	6	-
1073	Mehndiratta D., Kang L.S.	Announcement of an appointment of an outside as CEO: A study of stock market reaction	Journal of Advanced Research in Dynamical and Control Systems	2019	-	-	-
1074	Sharma A., Kumar V., Thukral A.K., Bhardwaj R.	Responses of plants to pesticide toxicity: An overview [Respostas de plantas à toxicidade de pesticidas: Uma visão geral]	Planta Daninha	2019	-	7	-



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1075	Shiekh B.A.	Biomimetic heterobimetallic architecture of Ni(II) and Fe(II) for CO <sub>2</sub> hydrogenation in aqueous media. A DFT study	RSC Advances	2019	-		-
1076	Kaur P., Singh G., Kaur P.	Intellectual detection and validation of automated mammogram breast cancer images by multi-class SVM using deep learning classification	Informatics in Medicine Unlocked	2019	-	14	-
1077	Shiekh B.A., Kaur D., Kumar S.	Bio-mimetic self-assembled computationally designed catalysts of Mo and W for hydrogenation of CO <sub>2</sub> /dehydrogenation of HCOOH inspired by the active site of formate dehydrogenase	Physical Chemistry Chemical Physics	2019	-	2	-
1078	Kaur P., Singh K.	Recent advances in the application of BODIPY in bioimaging and chemosensing	Journal of Materials Chemistry C	2019	-	33	-
1079	Kaur P., Singh G., Kaur P.	Erratum: Intellectual detection and validation of automated mammogram breast cancer images by multi-class SVM using deep learning classification (Informatics in Medicine Unlocked (2019) 16, (S2352914818301813), (10.1016/j.imu.2019.01.001))	Informatics in Medicine Unlocked	2019	-	2	-
1080	Kalia N., Singh J., Kaur M.	Immunopathology of recurrent vulvovaginal infections: New aspects and research directions	Frontiers in Immunology	2019	-	9	-
1081	Singh M., Malhotra J.	2 × 10 Gbit/s-10 GHz Radio over Free Space Optics Transmission System Incorporating Mode Division Multiplexing of Hermite Gaussian Modes	Journal of Optical Communications	2019	-	9	-
1082	Maheshwari S., Dua A.	Ultrastructural changes in fin epithelium of Channa punctatus (Bloch) exposed to mercuric chloride: sem study	Journal of Toxicology and Environmental Health - Part A: Current Issues	2019	-		-
1083	Dhillon R., Mehra N.	Hardiness as a moderator in the relationship between emotional autonomy and depression among adolescents	Pakistan Journal of Psychological Research	2019	-		-
1084	Kumari A., Kaur R.	Modulation of biochemical and physiological parameters in Hordeum vulgare L. Seedlings under the influence of benzyl-butyl phthalate	PeerJ	2019	-	6	-
1085	Mahajan H., Singh Arora D., Singh H., Jain S.K., Namarta K., Singh J.	Scientific validation of the antimicrobial and antiproliferative potential of Clerodendrum serratum (L.) Moon, its phytoconstituents and their biosafety by acute oral toxicity study	Drug and Chemical Toxicology	2019	-	2	-
1086	Kaur K., Kaur K.	An innovative approach towards failure prediction of hard disk drives using machine learning	Journal of Advanced Research in Dynamical and Control Systems	2019	-		-



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1087	Bhatti E., Kaur P.	DRAODM: Diabetic Retinopathy Analysis Through Optimized Deep Learning with Multi Support Vector Machine for Classification	Communications in Computer and Information Science	2019	-	1	-
1088	Nanda K.	Dynamics between bank-led financial inclusion and economic growth in emerging economies: The case of India	International Journal of Development and Conflict	2019	-	2	-
1089	Kaur R., Singh M., Singh A.	Influence of samarium and iron substitution on structural and electrical properties of barium zirconate titanate solid solutions	Journal of Asian Ceramic Societies	2019	-	2	-
1090	Chopra R., Kumar M., Neelam, Bhalla V.	Visible light promoted PANI@Au:CuO catalyzed sequential amination, azidation and annulation for the preparation of 2-arylbenzimidazoles	Green Chemistry	2019	-	3	-
1091	Ratti N., Kaur P.	Quantitative Analysis of Software Component's Reusability	Smart Innovation, Systems and Technologies	2019	-	-	-
1092	Gupta S.	Best coapproximation in quotient spaces	Iranian Journal of Mathematical Sciences and Informatics	2019	-	-	-
1093	Shiekh B.A., Kaur D.	Mechanism of atom economical conversion of alcohols and amines to amides using Fe(ii) pincer catalyst. An outer-sphere metal-ligand pathway or an inner-sphere elimination pathway?	RSC Advances	2019	-	1	-
1094	Sethi P., Singh K., Saini N.S.	Magnetoacoustic Nonlinear Solitary and Freak Waves in Pair-Ion Plasma	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	2019	-	-	-
1095	Singh B.B.	Rejoinder 2: Straightening the record: Aural memories are historical evidence	Sikh Formations: Religion, Culture, Theory	2019	-	-	-
1096	Singh K., Malhotra J.	Reinforcement learning-based real time search algorithm for routing optimisation in wireless sensor networks using fuzzy link cost estimation	International Journal of Communication Networks and Distributed Systems	2019	-	1	-
1097	Kumar A., Singh H.	Exploiting Parallelism Available in Loops Using Abstract Syntax Tree	Advances in Intelligent Systems and Computing	2019	-	-	-
1098	Singh J., Singh G., Singh P., Kaur M.	Evaluation and Classification of Road Accidents Using Machine Learning Techniques	Advances in Intelligent Systems and Computing	2019	-	1	-
1099	Singh P., Sawhney R.S., Kahlon K.S.	Twitter Based Sentiment Analysis of GST Implementation by Indian Government	Lecture Notes on Data Engineering and Communications Technologies	2019	-	4	-



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1100	Grover L.K., Kaur A.	An improved exponential type estimator of population mean of sensitive variable using optional randomized response technique	Pakistan Journal of Statistics and Operation Research	2019	-		-
1101	Gujral H.S., Sharma B., Singh P.	Utilization of flour from rice broken in wheat flour chapatti: evaluation of dough rheology, starch digestibility, glycemic index and retrogradation behavior	Journal of Food Science and Technology	2019	-	2	-
1102	Singh N., Gujral H.S., Katyal M., Sharma B.	Relationship of Mixolab characteristics with protein, pasting, dynamic and empirical rheological characteristics of flours from Indian wheat varieties with diverse grain hardness	Journal of Food Science and Technology	2019	-	4	-
1103	Deol H., Singh G., Kumar M., Bhalla V.	Metal nanoparticles embedded in AIEE active supramolecular assemblies: Robust, green and reusable nanocatalysts	Dalton Transactions	2019	-	2	-
1104	Kaur N., Negi A., Singh H.	Object Oriented Dynamic Coupling and Cohesion Metrics: A Review	Lecture Notes in Networks and Systems	2019	-	1	-
1105	Dhillon P.K., Kalra S.	A secure multi-factor ECC based authentication scheme for Cloud-IoT based healthcare services	Journal of Ambient Intelligence and Smart Environments	2019	-	4	-
1106	Kaur A., Singh B.	Does Firm's Size Speak of Its Reputation? Indian Evidence	Global Business Review	2019	-		-
1107	Singh G., Komal, Singh G., Kaur M., Kang T.S.	A new sustainable approach towards preparation of sunlight active Ag/AgBr Janus nanoparticles using non-toxic surface active ionic liquid	Journal of Materials Chemistry A	2019	-	6	-
1108	Ghuman M.K., Parmar Y., Mann B.J.S.	Measuring Celebrity Equity: Unearthing the Consumer Knowledge Structure Associations	Global Business Review	2019	-	5	-
1109	Bhatia S., Malhotra J.	Cloud security and forensic awareness survey: An empirical analysis	Journal of Engineering and Applied Sciences	2019	-		-
1110	Sheetal A., Singh H.	Cost Efficient 4× 2.5 Gb/s Transparent WDM Ring Network using DML and MetroCor Fiber for Long Reach Applications	Journal of Optical Communications	2019	-	3	-
1111	Kaur K., Kaur K.	Failure prediction and health status assessment of storage systems with decision trees	Communications in Computer and Information Science	2019	-	4	-
1112	Bharti S., Singh H.	Investigating developers' sentiments associated with software cloning practices	Communications in Computer and Information Science	2019	-		-



Sr.No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	h-index	Citation Index	Number of citations excluding self citation
1113	Kaur H., Devi G.	Impact of neighboring agent's characteristics with Q-learning in network multi-agent system	Communications in Computer and Information Science	2019	-		-
1114	Kaur J., Kaur K.	Fault Aware Improved Clustering Algorithm to Improve Execution Time of the Cloudlets	Communications in Computer and Information Science	2019	-		-
1115	Kumar M., Singh D., Bedi N.	Mefenamic acid-loaded solid SMEDDS: An innovative aspect for dose reduction and improved pharmacodynamic profile	Therapeutic Delivery	2019	-	4	-
1116	Kaur M., Singh P.	Targeting tyrosine kinase: Development of acridone – pyrrole – oxindole hybrids against human breast cancer	Bioorganic and Medicinal Chemistry Letters	2019	-	5	-
1117	Aggarwal R., Singh S., Saini V., Kaur G.	Synthesis, Characterization, and Evaluation of Surface and Thermal Properties and Cytotoxicity of 2-Hydroxy-3-Phenoxypropyl Imidazolium Bola-Type Gemini Amphiphiles	Journal of Surfactants and Detergents	2019	-	3	-
1118	Bhandari A., Kaur K.	An enhanced post-migration algorithm for dynamic load balancing in cloud computing environment	Advances in Intelligent Systems and Computing	2019	-	1	-
1119	Kaur H., Sharma A.	Sanction enforcement for norm violation in multi-agent systems: a cafe case study	Advances in Intelligent Systems and Computing	2019	-		-
1120	Singh T.P., Siddiqi R.A., Sogi D.S.	Statistical optimization of enzymatic hydrolysis of rice bran protein concentrate for enhanced hydrolysate production by papain	LWT	2019	-	12	-
1121	Kaur N., Singh H.	Parametric and functional-based analysis of object-oriented dynamic coupling metrics	Studies in Computational Intelligence	2019	-		-
1122	Negi A., Kaur P.	Examination of sense significance in semantic web services discovery	Studies in Computational Intelligence	2019	-		-
1123	Singh R.	Hybrid metaheuristic based scheduling with job duplication for cloud data centers	Advances in Intelligent Systems and Computing	2019	-	1	-
1124	Verma P., Sood S.K.	A comprehensive framework for student stress monitoring in fog-cloud IoT environment: m-health perspective	Medical and Biological Engineering and Computing	2019	-	10	-
1125	Pratibha, Kaur P.D.	A context-aware recommender engine for smart kitchen	Advances in Intelligent Systems and Computing	2019	-		-
1126	Gulati N., Kaur P.D.	When things become friends: A semantic perspective on the social Internet of Things	Advances in Intelligent Systems and Computing	2019	-	4	-
1127	Ahuja C., Kaur P., Singh H.	Software architecture evaluation in Agile environment	Advances in Intelligent Systems and Computing	2019	-		-



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1128	Dogra A., Kaur K., Ali J., Baboota S., Narang R.S., Narang J.K.	Nanoformulations for ocular delivery of drugs - A patent perspective	Recent Patents on Drug Delivery and Formulation	2019	-	1	-
1129	Handa R., Narula R.K., Gandhi C.P.	Applications of information measures to the theory of coding	International Journal on Emerging Technologies	2019	-		-
1130	Handa R., Narula R.K., Gandhi C.P.	New entropic modeling for discrete probability distributions	International Journal on Emerging Technologies	2019	-		-
1131	Verma M., Singh K., Bakshi M.S.	Surface active magnetic iron oxide nanoparticles for extracting metal nanoparticles across an aqueous-organic interface	Journal of Materials Chemistry C	2019	-	15	-
1132	Singh N., Singh P., Shevkani K., Viridi A.S.	Amaranth: Potential source for flour enrichment	Flour and Breads and Their Fortification in Health and Disease Prevention	2019	-	3	-
1133	Arora S., Randhawa G.	Socio-economic variables and quality of work life: Public transportation bus drivers	SCMS Journal of Indian Management	2019	-		-
1134	Kumar K., Kumar S., Singh P., Kaur S., Kaur S., Bhargava G.	Self-Assembled nanofibers of perylene diimide for the detection of hypochlorite in water, bio-fluids and solid-state: Exogenous and endogenous bioimaging of hypochlorite in cells	Journal of Materials Chemistry B	2019	-	14	-
1135	Komal, Kaur H., Kainth M., Meena S.S., Kang T.S.	Sustainable preparation of sunlight active $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles using iron containing ionic liquids for photocatalytic applications	RSC Advances	2019	-	4	-
1136	Bhat S.A., Vig A.P.	Vermistabilization and detoxification of sugar industry sludges by earthworms	Industrial and Municipal Sludge: Emerging Concerns and Scope for Resource Recovery	2019	-	3	-
1137	Kaur I., Sharma V., Mobin S.M., Khajuria A., Ohri P., Kaur P., Singh K.	Aggregation tailored emission of a benzothiazole based derivative: Photostable turn on bioimaging	RSC Advances	2019	-	4	-
1138	Singh D., Tiwary A.K., Bedi N.	Self-microemulsifying drug delivery system for problematic molecules: An update	Recent Patents on Nanotechnology	2019	-	2	-
1139	Kour A., Sharma S., Sambyal V., Guleria K., Singh N.R., Uppal M.S., Manjari M., Sudan M., Kukreja S.	Risk factor analysis for breast cancer in premenopausal and postmenopausal women of Punjab, India	Asian Pacific Journal of Cancer Prevention	2019	-		-



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1140	Kumar K., Kaur S., Kaur S., Bhargava G., Kumar S., Singh P.	Perylene diimide-Cu <sup>2+</sup> based fluorescent nanoparticles for the detection of spermine in clinical and food samples: A step toward the development of a diagnostic kit as a POCT tool for spermine	Journal of Materials Chemistry B	2019	-	11	-
1141	Singh P., Farhan M., Saajan S., Singh P.	A study to access factors affecting agripreneurship in diversified utilization of potato crop in state of Punjab and Himachal Pradesh	Plant Archives	2019	-		-
1142	Singh D., Singh M., Tharmatt A., Tiwary A.K., Bedi N.	Polymeric precipitation inhibitor as an effective trigger to convert supersaturated into supersaturable state in vivo	Therapeutic Delivery	2019	-		-
1143	Heidari A., Kumar V., Keshavarzi A.	Appraisal of metallic pollution and ecological risks in agricultural soils of Alborz province, Iran, employing contamination indices and multivariate statistical analyses	International Journal of Environmental Health Research	2019	-	7	-
1144	Jain M., Kaur S., Singh P.	Supplementary variable technique (SVT) for non-Markovian single server queue with service interruption (QSI)	Operational Research	2019	-	4	-
1145	Arora A., Misra S.K., Verma R.	Differentiation strategy in private banking services in India: Identifying role of tangible factors & traits affecting service levels	International Journal on Emerging Technologies	2019	-	1	-
1146	Bhardwaj R., Singh H.	Modelling the effect of knowledge management performance on organisational effectiveness: A study of e-governance in India	Electronic Government	2019	-		-
1147	Thakur S., Kaur P., Devgan K., Singh L.	Temperature dependent electrical transport characteristics of polyaniline films modified with gold nanoparticles	Materials Today: Proceedings	2019	-		-
1148	Singh P., Dwivedi Y.K., Kahlon K.S., Rana N.P., Patil P.P., Sawhney R.S.	Digital Payment Adoption in India: Insights from Twitter Analytics	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2019	-		-
1149	Saggu S.K., Jha G., Mishra P.C.	Enzymatic degradation of biofilm by metalloprotease from microbacterium sp. Sks10	Frontiers in Bioengineering and Biotechnology	2019	-	14	-
1150	Godara S.K., Singh H., Malhi P.S., Kaur V., Narang S.B., Sood A.K., Bhadu G.R., Chaudhari J.C.	Synthesis and characterization of Zn <sup>2+</sup> -Zr <sup>4+</sup> substituted barium hexaferrite by sol gel auto combustion method	Materials Today: Proceedings	2019	-	5	-
1151	Singh B.B.	Memory and pedagogy of Gurbāṅī Saṅ gīta: An autoethnographic Udāsī*	Sikh Formations: Religion, Culture, Theory	2019	-		-



Sr.No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	h-index	Citation Index	Number of citations excluding self citation
1152	Prasher P., Sharma M.	Tailored therapeutics based on 1,2,3-1: H -triazoles: A mini review	MedChemComm	2019	-	15	-
1153	Kumari M., Sharma R., Sheetal A.	Comparative Analysis of High Speed 20/20 Gbps OTDM-PON, WDM-PON and TWDM-PON for Long-Reach NG-PON2	Journal of Optical Communications	2019	-	5	-
1154	Singh C.J., Kaur S., Jain M.	Analysis of bulk queue with additional optional service, vacation and unreliable server	International Journal of Mathematics in Operational Research	2019	-	3	-
1155	Sharma M., Singh G., Singh R.	Design of GA and ontology based NLP frameworks for online opinion mining	Recent Patents on Engineering	2019	-	3	-
1156	Kriti K., Kaur P., Kaur S., Arora D., Asokan K., Singh D.P.	Influence of defect structure on colour tunability and magneto optical behaviour of WO <sub>3</sub> nanoforms	RSC Advances	2019	-	3	-
1157	Singh H., Kinarivala N., Sharma S.	Multi-targeting anticancer agents: Rational approaches, synthetic routes and structure activity relationship	Anti-Cancer Agents in Medicinal Chemistry	2019	-	9	-
1158	Kaur I., Gupta A., Singh B.P., Kumar R., Chawla J.	Defluoridation of water using micelle templated MCM-41: Adsorption and RSM studies	Journal of Water Supply: Research and Technology - AQUA	2019	-	3	-
1159	Gupta P., Singh L., Singh K.	The hybrid antimalarial approach	Annual Reports in Medicinal Chemistry	2019	-	2	-
1160	Sharma M., Samriti, Singh G.	Need and design of smart and secure energy-efficient IoT-based healthcare framework	Studies in Systems, Decision and Control	2019	-		-
1161	Majumdar A., Laskar N.M., Biswas A., Sood S.K., Baishnab K.L.	Energy efficient e-healthcare framework using HWPSO-based clustering approach	Journal of Intelligent and Fuzzy Systems	2019	-	3	-
1162	Kang T.S., Morikawa M.-A., Kimizuka N.	Liquid crystalline microspheres of azobenzene amphiphiles formed by thermally induced pH changes in binary water-hydrolytic ionic liquid media	Chemical Communications	2019	-	1	-
1163	Singh D., Bedi N., Tiwary A.K.	Comparison of UV spectrophotometric and HPLC method for estimating canagliflozin in bulk and a tablet dosage form	Indian Journal of Pharmaceutical Sciences	2019	-	2	-
1164	Singh D., Tiwary A.K., Bedi N.	Role of porous carriers in the biopharmaceutical performance of solid SMEDDS of canagliflozin	Recent Patents on Drug Delivery and Formulation	2019	-	6	-
1165	Singh J.V., Mal G., Kaur G., Gupta M.K., Singh A., Nepali K., Singh H., Sharma S., Bedi S.P.M.	Benzoflavone derivatives as potent antihyperuricemic agents	MedChemComm	2019	-	10	-



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1166	Singh J.V., Mal G., Kaur G., Gupta M.K., Singh A.P., Nepali K., Singh H., Sharma S., Bedi P.M.S.	Correction: Benzoflavone derivatives as potent antihyperuricemic agents(MedChemCommun (2019) DOI: 10.1039/c8md00512e)	MedChemComm	2019	-	1	-
1167	Singh P., Dwivedi Y.K., Kahlon K.S., Sawhney R.S.	Intelligent monitoring and controlling of public policies using social media and cloud computing	IFIP Advances in Information and Communication Technology	2019	-	5	-
1168	Kalia N., Singh J., Sharma S., Kaur M.	SNPs in 3'-UTR region of MBL2 increases susceptibility to recurrent vulvovaginal infections by altering sMBL levels	Immunobiology	2019	-	9	-
1169	Singh K., Kaur P., Devra S., Kaur G.	Evaluation of gain spectrum of dual/triple pumped fiber Raman amplifier (FRA) by optimizing its pumping parameters in the scenario of dense wavelength division multiplexed (DWDM) systems	Optik	2019	-	2	-
1170	Sethi N., Singh S., Singh G.	Improved mutation-based particle swarm optimization for load balancing in cloud data centers	Advances in Intelligent Systems and Computing	2019	-	3	-
1171	Jain R.K., Kaur J., Arora S., Kumar A., Chawla A.K., Khanna A.	Effects of oblique angle deposition on structural, electrical and wettability properties of Bi thin films grown by thermal evaporation	Applied Surface Science	2019	-	13	-
1172	Kumar K., Kaur P.	A comparative analysis of static and dynamic java bytecode watermarking algorithms	Advances in Intelligent Systems and Computing	2019	-	-	-
1173	Kabra A., Sharma R., Singla S., Kabra R., Baghel U.S.	Pharmacognostic characterization of Myrica esculenta leaves	Journal of Ayurveda and Integrative Medicine	2019	-	7	-
1174	Kaur P., Rahul, Kaur S., Kriti, Arora D., Asokan K., Paul Singh D.	Correlation between lattice deformations and optical properties of Ni doped ZnO at dilute concentration	Materials Today: Proceedings	2019	-	1	-
1175	Sarangal H., Singh A., Malhotra J., Thapar S.S.	Design of Hybrid DWDM and SAC-OCDMA System Utilizing ZCC Code to Enhance User Volume	Lecture Notes on Data Engineering and Communications Technologies	2019	-	-	-
1176	Punia S., Sandhu K.S., Kaur M., Siroha A.K.	Nanotechnology: A Successful Approach to Improve Nutraceutical Bioavailability	Nanotechnology in the Life Sciences	2019	-	2	-
1177	Bakshi P., Handa N., Gautam V., Kaur P., Sareen S., Mir B., Bhardwaj R.	Role and regulation of plant hormones as a signal molecule in response to abiotic stresses	Plant Signaling Molecules: Role and Regulation under Stressful Environments	2019	-	1	-



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1178	Prashar S., Singh S., Engles D., Kaushik S.	2-layer and 3-layer fiber geometry model based analysis of refractive index sensitivity of long period fiber grating with reduced cladding	Journal of Optoelectronics and Advanced Materials	2019	-	1	-
1179	Sharma P., Sharma P., Arora P., Verma V., Khanna K., Saini P., Bhardwaj R.	Role and regulation of ROS and antioxidants as signaling molecules in response to abiotic stresses	Plant Signaling Molecules: Role and Regulation under Stressful Environments	2019	-	4	-
1180	Aggarwal M., Goyal V., Kashyap R., Kumar H., Gill T.S.	Effects of plasma electron temperature and magnetic field on the propagation dynamics of Gaussian laser beam in weakly relativistic cold quantum plasma	Laser and Particle Beams	2019	-	1	-
1181	Singh M., Dhasarathan V.	Enhanced Performance Analysis of 10 Gbit/s-10 GHz OFDM-Based Radio over FSO Transmission System Incorporating ODSB and OSSB Modulation Schemes	Journal of Optical Communications	2019	-	2	-
1182	Singh P., Dureja J.S., Singh H., Bhatti M.S.	Environment friendly milling of Inconel-625	International Journal of Materials and Structural Integrity	2019	-		-
1183	Sulaiman A.A.A., Kalia N., Bhatia G., Kaur M., Fettouhi M., Altaf M., Baig N., Kawde A.-N., Isab A.A.	Cytotoxic effects of gold(i) complexes against colon, cervical and osteo carcinoma cell lines: A mechanistic approach	New Journal of Chemistry	2019	-	2	-
1184	Chandok S., Ansari A.H., Narang T.D.	Some approximate fixed point theorems without continuity of the operator using auxiliary functions	Mathematica Bohemica	2019	-		-
1185	Kaushal M., Lobana T.S., Nim L., Bala R., Arora D.S., Garcia-Santos I., Duff C.E., Jasinski J.P.	Synthesis of 2-acetylpyridine-N-substituted thiosemicarbazones of copper(ii) with high antimicrobial activity against methicillin resistant S. aureus, K. pneumoniae 1 and C. albicans	New Journal of Chemistry	2019	-	2	-
1186	Sharma M., Chadha P.	Immunological impairment as a marker of 4-nonylphenol induced stress	Indian Journal of Animal Sciences	2019	-		-
1187	Aulakh J.K., Lobana T.S., Sood H., Arora D.S., Kaur R., Singh J., Garcia-Santos I., Kaur M., Jasinski J.P.	Silver derivatives of multi-donor heterocyclic thioamides as antimicrobial/anticancer agents: Unusual bio-activity against methicillin resistant: S. aureus, S. epidermidis, and E. faecalis and human bone cancer MG63 cell line	RSC Advances	2019	-	10	-
1188	Jain B., Brar G., Malhotra J.	AMST-MAC: Adaptive sleeping multi-frames selective data transmission control for wireless sensor networks	International Journal of Advanced Intelligence Paradigms	2019	-		-



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1189	Sharma B., Singh A., Gu L., Saha S.T., Singh-Pillay A., Cele N., Singh P., Kaur M., Kumar V.	Diastereoselective approach to rationally design tetrahydro- $\beta$ -carboline-isatin conjugates as potential SERMs against breast cancer	RSC Advances	2019	-	12	-
1190	Sandhu R.S., Singh N., Kaler R., Singh B.	Optimization of process parameters for preparation of rice extrudates from short and long Indica rice cultivars milled to varying degree of milling	Journal of Food Science and Technology	2019	-	1	-
1191	Singh P., Dureja J.S., Singh H., Bhatti M.S.	Performance evaluation of coated carbide tool during face milling of AISI 304 under different cutting environments	Materials Research Express	2019	-	2	-
1192	Shevkani K., Singh N., Chen Y., Kaur A., Yu L.	Pulse proteins: secondary structure, functionality and applications	Journal of Food Science and Technology	2019	-	17	-
1193	Sran B.S., Gonzalez J.F., Montigaud V., Le Guennic B., Pointillart F., Cador O., Hundal G.	Structural and magnetic investigations of a binuclear coordination compound of dysprosium(iii) dinitrobenzoate	Dalton Transactions	2019	-	3	-
1194	Singh A., Lumb I., Mehra V., Kumar V.	Correction: Ferrocene-appended pharmacophores: An exciting approach for modulating the biological potential of organic scaffolds (Dalton Transactions (2019) DOI: 10.1039/c8dt03440k)	Dalton Transactions	2019	-	2	-
1195	Singh A., Lumb I., Mehra V., Kumar V.	Ferrocene-appended pharmacophores: An exciting approach for modulating the biological potential of organic scaffolds	Dalton Transactions	2019	-	43	-
1196	Nayyar A., Puri V., Le D.-N.	Comprehensive analysis of routing protocols surrounding underwater sensor networks (UWSNs)	Advances in Intelligent Systems and Computing	2019	-	17	-
1197	Kaur R., Singh K., Khullar P., Gupta A., Ahluwalia G.K., Bakshi M.S.	Applications of Molecular Structural Aspects of Gemini Surfactants in Reducing Nanoparticle-Nanoparticle Interactions	Langmuir	2019	-	8	-
1198	Sidhu G.P.S., Bali A.S., Bhardwaj R.	Role of organic acids in mitigating cadmium toxicity in plants	Cadmium Tolerance in Plants: Agronomic, Molecular, Signaling, and Omic Approaches	2019	-	9	-
1199	Kumar S., Palma G., Perumal S., Kaur M., Singh-Pillay A., Raj R., Singh P., Kumar V.	Triarylethylene-indolin-2,3-dione molecular conjugates: Design, synthesis, docking studies and anti-proliferation evaluation	RSC Advances	2019	-	4	-



Sr.No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	h-index	Citation Index	Number of citations excluding self citation
1200	Mohammed J., Hafeez H.Y., Tchouank Tekou Carol T., Sharma J., Isma'II U.T., Godara S.K., Srivastava A.K.	Structural, dielectric and magnetic properties of Al-Mn substituted nano-sized M-type strontium hexagonal ferrites	Materials Today: Proceedings	2019	-	4	-
1201	Kaur N., Mahajan A., Bhullar V., Singh D.P., Saxena V., Debnath A.K., Aswal D.K., Devi D., Singh F., Chopra S.	Fabrication of plasmonic dye-sensitized solar cells using ion-implanted photoanodes	RSC Advances	2019	-	2	-
1202	Etherington, M.K., Kukhta, N.A., Higginbotham, H.F., Danos, A., Bismillah, A.N., Graves, D.R., McGonigal, P.R., Haase, N., Morherr, A., Batsanov, A.S., Pflumm, C., Bhalla, V., Bryce, M.R., Monkman, A.P.	Persistent Dimer Emission in Thermally Activated Delayed Fluorescence Materials	Journal of Physical Chemistry C	2019	-		-
1203	Sonkar A.K., Rai A., Tripathi K., Sharma P., Roesky H.W., Drew M.G.B., Mishra L.	A benzimidazolyl terpyridine-Fe 2+ system and its recognition driven molecular model of a traffic light	Dalton Transactions	2019	-		-
1204	Bansal S., Aggarwal M., Gill T.S.	Study of obliquely propagating electron acoustic shock waves with non-extensive electron population	Plasma Science and Technology	2019	-	4	-
1205	Sahajpal N.S., Goel R.K., Chaubey A., Aurora R., Jain S.K.	Pathological perturbations in diabetic retinopathy: Hyperglycemia, AGEs, oxidative stress and inflammatory pathways	Current Protein and Peptide Science	2019	-	21	-
1206	Jomaa M.Y., Ahmad S., Seliman A.A.A., Popoola S.A., Shaikh A.R., Al-Saadi A.A., Bhatia G., Singh J., Isab A.A.	Synthesis, spectroscopic characterization and in vitro cytotoxic as well as docking studies of cis-diammine platinum(II) complexes of thiones	Inorganica Chimica Acta	2019	-	2	-
1207	Prasher P., Sharma M., Mudila H., Khati B.	Uptake, accumulation, and toxicity of metal nanoparticles in autotrophs	Nanotechnology for Agriculture: Advances for Sustainable Agriculture	2019	-		-
1208	Kaur M., Singh G., Damarla K., Singh G., Wang H., Wang J., Aswal V.K., Kumar A., Kang T.S.	Aqueous systems of a surface active ionic liquid having an aromatic anion: Phase behavior, exfoliation of graphene flakes and its hydrogelation	Physical Chemistry Chemical Physics	2019	-	6	-



Sr.No	Name of Author	Title of the Paper	Title of Journal	Year of Publication	h-index	Citation Index	Number of citations excluding self citation
1209	Singh H., Sahajpal N.S., Singh H., Vanita V., Roy P., Paul S., Singh S.K., Kaur I., Jain S.K.	Pre-clinical and cellular toxicity evaluation of 7-methylxanthine: an investigational drug for the treatment of myopia	Drug and Chemical Toxicology	2019	-	3	-
1210	Sharma A., Shahzad B., Rehman A., Bhardwaj R., Landi M., Zheng B.	Response of phenylpropanoid pathway and the role of polyphenols in plants under abiotic stress	Molecules	2019	-	173	-
1211	Rani A., Viljoen A., Johansen M.D., Kremer L., Kumar V.	Synthesis, anti-mycobacterial and cytotoxic evaluation of substituted isoindoline-1,3-dione-4-aminoquinolines coupled: Via alkyl/amide linkers	RSC Advances	2019	-	6	-
1212	Mohammed J., Hafeez H.Y., Tehouank Tekou Carol T., Ndikilar C.E., Sharma J., Maji P.K., Godara S.K., Srivastava A.K.	Structural, dielectric, and magneto-optical properties of Cu <sup>2+</sup> -Er <sup>3+</sup> substituted nanocrystalline strontium hexaferrite	Materials Research Express	2019	-	14	-

**Annexure-XXI****Number of Extension and Outreach Programmes Conducted in collaboration with Industry, Community and Non- Government Organisations through NSS/NCC/Red Cross/Youth Red Cross (YRC) etc., during the Academic Year 2019-20**

Name of the Scheme	Organising Units/agency/ collaborating agency	Number of Teachers coordinated in such activities	Number of Participated in such activities
District Youth Parliament	NSS	3	80
Yoga Day	NSS	3	200
Swachh Bharat Pakhwada	NSS	3	200
International Literacy Day	NSS	2	100
Planation Camp at University Campus	NSS	2	100
Aid Awareness Program	NSS	3	100
Swachhta Abhyan Drive	NSS	2	100
Awareness Campaign against Stubble Burning	Punjab Pollution Control Board	3	200
Celebrated NSS Day	NSS	2	100
<b>NCC Events</b>			
CATC SSB/PD	NCC	1	15
Republic Day Prade	NCC	1	30
'BEE' Certificate TRG	NCC	1	9
'BEE' Certificate Examination	NCC	1	9
CATC Early Selection Camp	NCC	1	8
Pioltng on visit of 'ADG' NCC IN NCC GP HQ, ASR	NCC	1	2
Marathon Run	NCC	1	5
Sharadhanjali March	NCC	1	10
Interview With CO sir regarding IMA Attachment Camp	NCC	1	2
Lecture by Army Recruitment Officer to Cover Carrier Aspect	NCC	1	53
EBSB Camp	NCC	1	2
Independence day drill	NCC	1	4
Independence day Drill	NCC	1	53
Enrollment Day	NCC	1	53
RDC selection for Culture day	NCC	1	53
Army attachment camp	NCC	1	6
Swachh bharat abhiyan rally	NCC	1	53
Culture day Gp competition	NCC	1	9
Swachh Bharat Abhiyan Rally	NCC	1	6
CATC CAMP	NCC	1	8
Blood donation camp	NCC	1	53
P-RDC camp Ropar	NCC	1	1
CATC camp	NCC	1	1
Republic day drill	NCC	1	53
Republic day drill	NCC	1	11
B & C Certificate Trg	NCC	1	15
Cancer awareness (Phulkari CAN )	NCC	1	53
IAS officer visit	NCC	1	53
B Certificate exam	NCC	1	11
C Certificate exam	NCC	1	18
Convocation duty	NCC	1	12
Yoga day trg	NCC	1	53
International day of Yoga	NCC	1	53
Kargil Vijay Diwas Webinar	NCC	1	53

**Annexure-XXII****Linkages with Institutions/ Industries for Internship, on the Job Training, Project Work, Sharing of Research Facilities etc. during the Academic Year 2019-20**

Sr.No	Nature of Linkage	Title of Linkage	Name of partnering institutions industry/ research lab with contact details	Duration From	Duration To	Participant
1	Research Training for Students	Industrial/ Research Training	Sant Longowal Institute of Engineering and Technology, Longowal	26.09.2019	30.10.2019	39
2	Research Training for Students	Industrial/ Research Training	Punjab Agriculture University, Ludhiana	16.10.2019	30.11.2019	34
3	Industry Academia Relations	Internship Industrial Training	Maharaja Ranjit Singh Punjab Technical University, Bathinda	16.10.2019	30.11.2019	33
4	Industry Academia Relations	Internship Industrial Training	Memorial University of Newfoundland, Newfoundland Labrador, Canada	25.02.2019	30.04.2019	36
5	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	397
6	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	89
7	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	45
8	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	15
9	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	196
10	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	110
11	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	44
12	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	58
13	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	78
14	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	9
15	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	40
16	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	13
17	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	54
18	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	54
19	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	49
20	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	71
21	Industry Academia Relations	Internship	Various Public and Private Organisations	01.06.2020	30.06.2020	14



**Annexure-XXIII**

**Details of Augmentation in Infrastructure Facilities during the Academic Year 2019-20**

Facilities	Existing	Newly added
Campus Area	302117 sqmt	84620 sqmt
Class Rooms	279	23
Laboratories	247	15
Seminar Halls	14	2
Classrooms with LCD facilities	26	4
Classrooms with Wi-Fi/LAN	41	19
Seminar halls with ICT facilities	23	1
Video Centre	5	0
No. of important equipments purchased(Greater than 1-0 lakhs) during the current academic year 2019-20	303	32
Value of the equipment purchased during the academic year (Rs. in Lakhs) Others	43,570,619	33233686.67

**Annexure-XXIV**

**Library Services**

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
<b>Text Books</b>	4002	4,135,653	2513	2,065,050	6515	6,038,010
<b>Reference Books</b>	165		-			
<b>e-Books</b>	-	-	-	-	-	-
<b>Journals</b>	195	5,212,776	-	-	195	11,152,150
<b>e-Journals</b>	2196	£ 23,325 and \$183602	-	-	4600	1,54,41,831, £ 23,325 and \$183602
<b>Digital Database</b>	Scopus, SciFinder	18,82,951, 1,62,252, 7,61,093	Scopus SciFinder IEEE database of e-journals	-	Scopus, SciFinder, IEEE database of e-journals	5,550,250
<b>CD &amp; Video</b>	2323 (CDs with Books) 2389 (CDs with Ph.D Thesis/MPhil Dissertations)	-		-	-	2323 (CDs with Books) 2389 (CDs with Ph.D Thesis/MPhil Dissertations)
<b>Other (specify)</b>	Apart from the above subscribed resources, 7040 e- journals of various publishers and some databases are also available through e-Shodhsindhu.					

**Annexure-XXV****Number of Capability Enhancement and Development Schemes such as Soft Skill Development, Remedial Coaching, Language Lab, Bridge Courses, Yoga, Meditation, Personal Counselling and Mentoring etc. Academic Year 2019-20**

Sr. No	Name of the capability enhancement scheme	Date of Implementation	Number of students enrolled	Agencies involved
1	Busting Common Myths and Misconceptions about Jobs and Careers	06.06.2020	86	Ritu Goyal
2	Journey from GNDU to a World Renowned Paper Artist and Successful IT Architect	08.01.2020	90	Atamjeet Singh
3	Lightening the Lockdown Series- Challenges and Sloutions on Covid 19 Issues	15.07.2020	100	Mentors from India and Abroad
4	E-learning: Boon or Bane (A Virtual Debate Competition)	22.05.2020	30	Participants Included School and College Students
5	Empowering School Childern to Make Wise Food Chocies	808.202	50	Chef Gyatri Prshawaria
6	Science, Technology and Innovation Policy-2020 : An Idea Pitching Panel Dicussion	27.08.2020	70	Student Panelists ( Bachelors, Masters and Doctorate Students Belongingto Different Departments
7	An Interactive Session with Prof. Patrick Das Gupta about the Mysteries of the Universe	20.05.2020	200	Prof. Patrick Das Gupta
8	Challenge and Opportunities for Women in Science ( A Live Talk Show)	29.05.2020	100	Host : Dr. Bindiya Arora, Guest : Dr. Vandana Bhalla
9	Mental Health: Handle It Before It Handles You	07.01.2020	200	Dr. Aarti Girdhar
10	Webinar on Civilisation of Employment	20.06.2020	30	Harshprateek Singh
11	A Webinar on Drug Abuse Awareness	NA	300	Dr. Sonia Kapur
12	A Webinar on Doping in Sports	23.07.2020	200	Dr. Amandeep Singh
13	Swachh Bharat Rally	02.10.2019	48	NCC, Guru Nanak Dev University
14	Swachh Bharat Rally	09.10.2019	48	NCC, Guru Nanak Dev University
15	Blood Donation Camp	28.11.2019	52	NCC, Guru Nanak Dev University
16	Cancer Awareness (Phulkari)	02.02.2020	55	NCC, Guru Nanak Dev University
17	Yoga Day Practice	18.06.2020	46	NCC, Guru Nanak Dev University
18	International Yoga Day	21.06.2020	49	NCC, Guru Nanak Dev University
19	Communcation French Module I	03.03.2020	11	Foreign Languages Department , Guru Nanak Dev University
20	Communcation German Module I	30.01.2020	5	Foreign Languages Department , Guru Nanak Dev University
21	Short Term Course in French for Employees of the Punjab Tourism	26.09.2019	27	Punjab Sate Heritage & Tourism Promotion Board
22	Short Term Course in German for Employees of the Punjab Tourism	31.01.2020	24	Punjab Sate Heritage & Tourism Promotion Board



**Annexure-XXVI**  
**Details of Campus Placement during the Year 2019-20**

Sr.No	On campus			Off campus		
	Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
1	TCS DIGITAL	352	11	CHC CONSULTING	37	3
2	TCS CODEVITA NINJA	328	44	COGNIZANT	116	13
3	TCS NINJA	371	58	MIND INFO TECH.	30	2
4	NAGARRO BOOT CAMP	466	8	WIPRO	124	23
5	KPMG	179	21	FARE LABS	16	8
6	CAPGEMINI	382	119	INDSWIFT	49	8
7	INFOGAIN	181	27	APJ SATYA RESEARCH FOUNDATION	49	3
8	SOURCE FUSE TECH.	115	2	CONSERN PHARMA	49	5
9	JARO EDUCATION	104	2	CSR IBHT	49	1
10	KHANNA PAPER MILLS	58	4	INTEGRAL BIO SCIENCES	49	2
11	XENON STACK	92	8	JACKSON LABORATORIES	49	4
12	GRAZITTI INTERACTIVE	151	3	MEDIMAX PHARMA	49	1
13	INFO OBJECTS	134	8	SUN PHARMA	49	1
14	CHICMIC	100	5	GLENMARK PHARMA	49	1
15	E & Y	78	20	LIDO LEARNING	NA	1
16	PAXCOM	140	1	RALSON	23	1
17	SAP LABS	167	9	WIPRO WASE	21	3
18	NAGARRO	153	1	CAPGEMINI	NA	1
19	STYLUMIA	165	3	INTERNSHALA INTERNSHIPS (ONLINE)	NA	146
20	ICICI BANK	68	18			
21	BEBO TECH.	101	4			
22	CODE BREW	133	15			
23	BERGER PAINT	29	1			
24	75 WAY TECH.	47	4			
25	HDFC LIFE	54	23			
26	JUBILANT	36	5			
27	IOL CHEMICALS	47	9			



Sr.No	On campus			Off campus		
	Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
28	AMDOCS	369	14			
29	BANDHAN BANK	118	13			
30	CAPGEMINI	252	36			
31	IDSIL INFOTECH	86	25			
32	XENON STACK	52	3			
33	ITC FOOD	88	12			
34	JARO EDUCATION	167	2			
35	ICICI PRUDENTIAL	79	11			
36	IOL	43	1			
37	DECATHLON	130	6			
38	SOFTWARE AG	137	8			
39	WIPRO	37	11			
40	BYJU'S FOR BOYS	37	7			
41	BYJU'S FOR GIRL	49	5			



**Annexure-XXVII**  
**Student Progression to Higher Education Academic Year 2019-20**

Sr.No	Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of Institution joined	Name of Programme admitted to
1	2019-20	1	MSc Biotechnology	Biotechnology	Guru Nanak Dev University, Amritsar	Project Fellow
2	2019-20	1	MSc Biotechnology	Biotechnology	Guru Nanak Dev University, Amritsar	Inspire Fellow, JRF
3	2019-20	1	MSc Biotechnology	Biotechnology	AIIMS	PhD
4	2019-20	1	MSc Biotechnology	Biotechnology	INST, Mohali	Project Fellow
5	2019-20	1	MSc Biotechnology	Biotechnology	NIIM	PhD
6	2019-20	1	MSc Biotechnology	Biotechnology	Guru Nanak Dev University, Amritsar	Trainee
7	2019-20	1	MSc Biotechnology	Biotechnology	NBPGR, New Delhi	Young Scientist
8	2019-20	35	MSc Chemistry	Chemistry	Guru Nanak Dev University, Amritsar	PhD
9	2019-20	1	MSc Chemistry	Chemistry	IIT Kanpur	PhD
10	2019-20	1	MSc Chemistry	Chemistry	IISE Bangalore	PhD
11	2019-20	1	MSc Chemistry	Chemistry	IIT Jodhpur	PhD
12	2019-20	1	MSc Chemistry	Chemistry	Canada	PhD
13	2019-20	1	MSc Chemistry	Chemistry	University of Oklahoma	PhD
14	2019-20	1	MSc Chemistry	Chemistry	CIAB Mohali	PhD
15	2019-20	2	MSc Chemistry	Chemistry	IIT Bombay	PhD
17	2019-20	1	MSc Chemistry	Chemistry	Indiana University	PhD
18	2019-20	1	MSc Chemistry & PhD	Chemistry	USA	PDF
19	2019-20	1	MSc Chemistry & PhD	Chemistry	JSPS PD	PDF
21	2019-20	1	MSc Chemistry & PhD	Chemistry	Marie Curie Post Doctoral Fellowship, UK	PDF
22	2019-20	2	MSc Chemistry & PhD	Chemistry	University of Kansas	PDF
23	2019-20	1	MSc Chemistry & PhD	Chemistry	University of Massachusetts, USA	PDF
24	2019-20	2	MSc Chemistry & PhD	Chemistry	South Korea	PDF
26	2019-20	1	MSc Physics	Physics	Australian National University, Australia	PhD



Sr.No	Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of Institution joined	Name of Programme admitted to
27	2019-20	1	MSc Physics	Physics	Ecole Centrale de Lyon, France	Masters
28	2019-20	2	MSc Physics	Physics	Ecole Norma le Superieure, France	Masters
29	2019-20	16	MSc Food Science & Technology	Food Science & Technology	Guru Nanak Dev University, Amritsar	PhD
30	2019-20	1	BTech Computer Science & Engineering	Cmputer Science & Engineering	IIT, Rohtak	Post Graduate Programme in Manegement
31	2019-20	1	BTech Computer Science & Engineering	Cmputer Science & Engineering	IIM,Udaipur	Post Graduate Programme in Manegement
32	2019-20	1	BTech Computer Science & Engineering	Cmputer Science & Engineering	IMT, Ghazibad	MBA
33	2019-20	1	BTech Electronics Technology	Electronics Technology	Concordia University, Montreal	Masters in Electrical and Computer Engineering
34	2019-20	1	BTech Electronics Technology	Electronics Technology	BITS Pilani, India	MTech Software Engineering
35	2019-20	1	MA English	English	Canada Study Visa	Canada Study Visa
36	2019-20	1	MPhil Hindi	Hindi	Guru Nanak Dev University, Amritsar	PhD
37	2019-20	17	BSc Human Genetics	Human Genetics	Guru Nanak Dev University, Amritsar	MSc
38	2019-20	10	LLB Laws	Laws	Guru Nanak Dev University, Amritsar	LLM
39	2019-20	7	LLB Laws	Laws	Guru Nanak Dev University, Amritsar	LLM
40	2019-20	8	BLib Library and Information Science	Library and Inormation Science	Guru Nanak Dev University, Amritsar	Mlib
41	2019-20	4	Bachelor of Pharmacy	Pharmacetucial Sciences	Guru Nanak Dev University, Amritsar	Master of Pharmacy
42	2019-20	16	BSc Economics	Punjab School of Economics	Guru Nanak Dev University, Amritsar	MSc
43	2019-20	1	BSc Economics	Punjab School of Economics	Khalsa College for Eduction, Amritsar	BEd



Sr.No	Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of Institution joined	Name of Programme admitted to
44	2019-20	1	MSc Economics	Punjab School of Economics	Guru Nanak Dev University, Amritsar	MBA
45	2019-20	6	BA(HS) Punjabi	School of Punjabi Studies	Guru Nanak Dev University, Amritsar	MA Punjabi
46	2019-20	6	BA(HS) Punjabi	School of Punjabi Studies	Guru Nanak Dev University, Amritsar	MA Sociology
47	2019-20	2	MA Punjabi	School of Punjabi Studies	Guru Nanak Dev University, Amritsar	BEd
48	2019-20	1	MA Punjabi	School of Punjabi Studies	Guru Nanak Dev University, Amritsar	BEd
49	2019-20	1	BA (HS) Social Sciences	School of Social Sciences	Panjab University, Chandigarh	MA
50	2019-20	1	BA (HS) Social Sciences	School of Social Sciences	Brack Universty, Dhaka Bangladesh	MA
51	2019-20	1	BA (HS) Social Sciences	School of Social Sciences	Jawahar Lal University , New Delhi	MA in Internationa Relations
52	2019-20	1	BA (HS) Social Sciences	School of Social Sciences	Azim Prem ji University	Masters in Public University
53	2019-20	3	BCom University School of Financial Studies	University School of Financial Studies	Guru Nanak Dev University, Amritsar	MBA



**Annexure-XXVIII**  
**Sports and Cultural Activities/Competitions Organized at the Institution Level during the Academic Year 2019-20**

Sr.No	Activity/Sports	Level	Participants
1	Shooting	Asian Games Session 2019-20	2
2	Shooting	ISSF,Junior world Cup Germany Session 2019-20	1
3	Cycling	Khelo India University Games Session 2019-20	1
4	Shooting	Khelo India University Games Session 2019-20	1
5	Fencing	Khelo India University Games Session 2019-20	4
6	Football	Khelo India University Games Session 2019-20	6
7	Kayaking & Canoeing & Dragon Boat	All India Inter-University Championships Session 2019-20	1
8	Road Cycling	All India Inter-University Championships Session 2019-20	2
9	Track Cycling	All India Inter-University Championships Session 2019-20	4
10	Shooting	All India Inter-University Championships Session 2019-20	4
11	Taekwando	All India Inter-University Championships Session 2019-20	1
12	Malkhamb	All India Inter-University Championships Session 2019-20	3
13	Archery	All India Inter-University Championships Session 2019-20	1
14	Fencing	All India Inter-University Championships Session 2019-20	3
15	Basketball	All India Inter-University Championships Session 2019-20	4
16	Cricket	All India Inter-University Championships Session 2019-20	2
17	Wushu	All India Inter-University Championships Session 2019-20	1
18	Gymnastics	All India Inter-University Championships Session 2019-20	2



## Annexure-XXIX

## Number of Awards/Medals for Outstanding Performance in Sports/Cultural Activities at National/International Level 2019-20

## Sports

Sr.no	Year	Name of Award/Medal	National/ Internatzional	Sports	Event	Name of Student
1	2019-20	1 <sup>st</sup>	AIIU	Shooting Men	50 M Rifle3 Position Team	Aishwarya Partap Singh Tomar
2	2019-20	1 <sup>st</sup>	AIIU	Shooting Men	50 M Rifle3 Position Team	Aishwarya Partap Singh Tomar
3	2019-20	1 <sup>st</sup>	AIIU	Fencing (Women)	SABRE	Sowmiya.S
4	2019-20	1 <sup>st</sup>	AIIU	Judo (Women)	48 Kg	Savita Gurung
5	2019-20	1 <sup>st</sup>	AIIU	Shooting (Women)	50 M Rifle 3 Position Team	Sunidhi Chauhan
6	2019-20	1 <sup>st</sup>	AIIU	Shooting (Women)	50 M Rifle 3 Position Indv	Sunidhi Chauhan
7	2019-20	1 <sup>st</sup>	AIIU	Shooting (Women)	50 M Rifle Prone Indv	Sunidhi Chauhan
8	2019-20	1 <sup>st</sup>	AIIU	Basketball (Women)	North Zone	Smariti
9	2019-20	1 <sup>st</sup>	AIIU	Basketball (Women)	North Zone	Shabnam
10	2019-20	1 <sup>st</sup>	AIIU	Basketball (Women)	North Zone	KM Pratyanjali Kesarwani
11	2019-20	1 <sup>st</sup>	AIIU	Basketball (Women)	North Zone	Priyanka Kanyal
12	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	North Zone	Banita
13	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	North Zone	Madhu Bala
14	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	North Zone	Jagdeep Kaur
15	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	North Zone	Shyama Rani
16	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	North Zone	Poonam Yadav
17	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	North Zone	Tanuja
18	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	Inter Zone	Banita
19	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	Inter Zone	Madhu Bala
20	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	Inter Zone	Jagdeep Kaur
21	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	Inter Zone	Shyama Rani
22	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	Inter Zone	Poonam Yadav
23	2019-20	1 <sup>st</sup>	AIIU	Football (Women)	Inter Zone	Tanuja
24	2019-20	1 <sup>st</sup>	Khelo India	Fencing (Women)	Sabre Women Team	Saumiya.S
25	2019-20	1 <sup>st</sup>	Khelo India	Fencing (Women)	Epee Women Indv	Jyotika Dutta
26	2019-20	1 <sup>st</sup>	Khelo India	Fencing (Women)	Epee Women Team	Jyotika Dutta
27	2019-20	1 <sup>st</sup>	Tanvir Kaur	Fencing (Women)	Epee Women Team	Tanvir Kaur
28	2019-20	2 <sup>nd</sup>	AIIU	Kayaking & Canoeing	2 <sup>nd</sup> in D-10 100 M Dragon boat	Yadwinder Singh



Sr.no	Year	Name of Award/Medal	National/ Internatzional	Sports	Event	Name of Student
29	2019-20	2 <sup>nd</sup>	AIIU	Road Cycling (Men)	54 Km Road T.T.T	Prem Moond
30	2019-20	2 <sup>nd</sup>	AIIU	Road Cycling (Men)	54 Km Road T.T.T	Jitender Ahlawat
31	2019-20	2 <sup>nd</sup>	AIIU	Track Cycling (Men)	2 <sup>nd</sup> in 4km Team Pursuit	Mandeep Singh
32	2019-20	2 <sup>nd</sup>	AIIU	Track Cycling (Men)	Team Sprint	Gurshelly Singh
33	2019-20	2 <sup>nd</sup>	AIIU	Track Cycling (Men)	4km Team Pursuit	Manjeet Kumar
34	2019-20	2 <sup>nd</sup>	AIIU	Track Cycling (Men)	4km Team Pursuit	Manjeet Kumar
35	2019-20	2 <sup>nd</sup>	AIIU	Shooting Men	10 M Air Rifle Team	Aishwarya Partap Singh Tomar
36	2019-20	2 <sup>nd</sup>	AIIU	Shooting Men	10 M Air Rifle Indv	Aishwarya Partap Singh Tomar
37	2019-20	2 <sup>nd</sup>	AIIU	Archery (Women)	Mix Team	Varsha
38	2019-20	2 <sup>nd</sup>	AIIU	Shooting (Women)	50 M Rifle Prone Team	Sunidhi Chauhan
39	2019-20	2 <sup>nd</sup>	AIIU	Basketball (Women)	Inter Zone	Samriti
40	2019-20	2 <sup>nd</sup>	AIIU	Basketball (Women)	Inter Zone	Shabnam
41	2019-20	2 <sup>nd</sup>	AIIU	Basketball (Women)	Inter Zone	KM Pratyanjali Kesarwani
42	2019-20	2 <sup>nd</sup>	AIIU	Basketball (Women)	Inter Zone	Priyanka Kanyal
43	2019-20	2 <sup>nd</sup>	AIIU	Cricket (Women)	North Zone	KM Rekha
44	2019-20	2 <sup>nd</sup>	AIIU	Cricket (Women)	North Zone	Neha
45	2019-20	3 <sup>rd</sup>	AIIU	Taekwondo (Men)	80 Kg	Tashi Tundup
46	2019-20	3 <sup>rd</sup>	AIIU	Fencing (Women)	EPEE	Jyotika Dutta
47	2019-20	3 <sup>rd</sup>	AIIU	Fencing (Women)	EPEE	Tanveer Kaur
48	2019-20	3 <sup>rd</sup>	Khelo India	Football (Women)	-	Banita
49	2019-20	3 <sup>rd</sup>	Khelo India	Football (Women)	-	Madhu Bala
50	2019-20	3 <sup>rd</sup>	Khelo India	Football (Women)	-	Jagdeep Kaur
51	2019-20	3 <sup>rd</sup>	Khelo India	Football (Women)	-	Shyam Rani
52	2019-20	3 <sup>rd</sup>	Khelo India	Football (Women)	-	Poonam Yadav
53	2019-20	3 <sup>rd</sup>	Khelo India	Football (Women)	-	Tanuja



**CULTURAL**

Sr.No	Year	Name of the award/medal	Inter University/National/Inter-National	Number of awards for Cultural	Name of the Event	Name of the Student
1	2019-20	Gold Medal / Silver Medal	Inter- University North Zone Youth Festival	Two Time(First and Second)	Classical Inst. (Percussion) Folk Orchestra	Mansa Singh
2	2019-20	Gold Medal / Silver Medal	Inter- University North Zone Youth Festival	Two Time(First and Second)	Classical Inst. (Non-Percussion) Folk Orchestra	Harjot Singh
3	2019-20	Silver Medal Third	Inter- University North Zone Youth Festival	Two Time (Second and Third)	Light Vocal (Indian) Western Group Song	Kritika Sharma
4	2019-20	Gold Medal / Silver Medal Third	Inter- University North Zone Youth Festival	(First) Two Time (Second) One Time (Third) One Time	Rangoli, Instalation, On the Spot Photography and Mehandi	Baljit Singh
5	2019-20	Third	Inter- University North Zone Youth Festival	One Time	Western Group Song	Deepali Pameh, Nisha Pameh, Sukhmani Arora, Swaranshi Chhabra, Madhvi
6	2019- 20	Silver Medal	Inter- University North Zone Youth Festival	One Time (Second)	Folk Orchestra	Gurtej Singh, Kanwalpreet Singh, Goldy Kumar, Bharat Mal, Talib Sain, Ravinder Singh
7	2019- 20	Silver Medal	Inter- University North Zone Youth Festival	One Time (Second)	Collage	Navita Jain
8	2019- 20	Third	Inter- University North Zone Youth Festival	One Time (Third)	Poster Making	Paras

**Annexure-XXX****Number of Professional Development/Administrative Training Programmes Organized by the University for Teaching and Non-Teaching Staff during the Year**

Title of the professional development programmes	Number of teachers who attended	Date and Duration(from-to)
<b>Orientation Programmes</b>		
Orientation Programme-107	22	11.02.2020 to 02.03.2020
Orientation Programme-106	23	13.11.2019 to 03.12.2019
<b>Refresher Courses</b>		
Mathematical Sciences	21	08.11.2019 to 21.11.2019
Commerce & Business Mangement	24	06.12.2019 to 19.12.2019
Environmental Sciences	35	10.12.2019 to 23.12.2019
Winter School	36	11.12.2019 to 24.12.2019
Human Rights (ID)	27	06.12.2019 to 19.12.2019
<b>Short Term Courses / Workshops</b>		
Research Methodology	51	11.09.2019 to 17.09.2019
Gender Sensitization	25	05.02.2020 to 11.02.2020
Environmental Awareness	27	13.02.2020 to 19.02.2020
Higher Education	24	28.02.2020 to 29.02.2020
Plagiarism and Ethical Issues in Research Work	33	03.03.2020 to 09.03.2020
Non-Teaching	25	13.03.2020 to 14.03.2020

**Annexure-XXXI****Number of Teachers Attending Professional Development Programmes, Viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the Year 2019-20**

Title of the professional development programmes	Number of teachers who attended	Date and Duration (from-to)	Duration
<b>Orientation Programmes</b>			
Orientation Programme-107	22	11.02.2020 to 02.03.2020	21
Orientation Programme-106	23	13.11.2019 to 03.12.2019	21
<b>Refresher Courses</b>			
Mathematical Sciences	21	08.11.2019 to 21.11.2019	21
Commerce & Business Mangement	24	06.12.2019 to 19.12.2019	14
Environmental Sciences	35	10.12.2019 to 23.12.2019	14
Winter School	36	11.12.2019 to 24.12.2019	14
Human Rights (ID)	27	06.12.2019 to 19.12.2019	14
<b>Short Term Courses / Workshops</b>			
Research Methodology	51	11.09.2019 to 17.09.2019	7
Gender Sensitization	25	05.02.2020 to 11.02.2020	7
Environmental Awareness	27	13.02.2020 to 19.02.2020	7
Higher Education	24	28.02.2020 to 29.02.2020	2
Plagiarism and Ethical Issues in Research Work	33	03.03.2020 to 09.03.2020	7



**Annexure-XXXII**  
**Inclusion and Situatedness**

Sr.no	Year	Number of Initiatives to Address Locational Advantages and Disadvantages	Number of Initiatives to Engage With and Contribute to Local Community	Date	Duration	Name of Initiatives	Issues Addressed	No. of Participants
1	2019	1	1	20 Jan -29 Jan	10days	CATC/SSB PD	Camp	15
2	2019	1	1	26-Jan	1 day	Republic Day Parade	Parade	30
3	2019	1	1	01 Feb - 2 Feb	2 days	B' Certificate Training	Preparation	9
4	2019	1	1	3/2/2020	1 day	B Certificate Exam	Exam	9
5	2019	1	1	09 March- 19 March	10 days	CATC Early Selection Camp	Camp	8
6	2019	1	1	19-Mar	1 day	Piloting On ADG Visit		2
7	2019	1	1	31-Mar	1 day	Marathon Run	Fitness	5
8	2019	1	1	6-Apr	1day	Shardhanjali March	-	-
9	2019	1	1	24-Apr	1 day	Interview With Co Sir Regarding Ima Camp	Selection	-
10	2019	1	1	-	1 day	Lecture By Army Officer For Career Aspects	Awareness	Open to all
11	2019	1	1	4 June - 14 June	10 days	EBSB Camp	Camp	2
12	2019	1	1	15-Aug	1 day	Independence Day Drill	Drill	2 ( Stadium )
13	2019	1	1	15-Aug	1 day	Independence Day Drill	Drill	All Cadets
14	2019	1	1	30-Aug	1 day	Enrollment Day	New Enrollment	Open to all
15	2019	1	1		1 day	RDC Selection For Cultural Day		All Cadets
16	2019	1	1	September	10 days	Basic Leadership Camp		
17	2019	1	1	30 Sept-13 October	13 days	Army Attachment Camp		6
18	2019	1	1	2-Oct	1 day	Swachh Bharat Rally	Swachhta	All Cadets
19	2019	1	1	4-Oct	1 day	Cultural Day Gp Competition		9
20	2019	1	1	9-Oct	1 day	Swachh Bharat Rally	Swachhta	6
21	2019	1	1	16 Oct - 25 Oct	10 days	CATC Camp		
22	2019	1	1	28 Oct - 2 Nov	6 days	Vigilance Awareness Week		All Cadets
23	2019	1	1	28-Nov	1 day	Blood Donation Camp	Donate Blood	All Cadets
24	2019	1	1	2 Dec - 11 Dec	10 days	P RDC Camp		1



Sr.no	Year	Number of Initiatives to Address Locational Advantages and Disadvantages	Number of Initiatives to Engage With and Contribute to Local Community	Date	Duration	Name of Initiatives	Issues Addressed	No. of Participants
25	2020	1	1	2 Jan- 12 Jan	10 days	CATC Camp		1
26	2020	1	1	26-Jan	1 day	RDC Parade		11 (Stadium)
27	2020	1	1	26-Jan	1 day	RDC Parade		All Cadets
28	2020	1	1	-	1 day	B And C Certificate Training		15
29	2020	1	1	2-Feb	1 day	Cancer Awareness (Phulkari)	Awareness For Cancer	All Cadets
30	2020	1	1		1 day	IAS Officer Visit	Awareness For Career	All Cadets
31	2020	1	1	9-Feb	1 day	B Certificate Exam		11
32	2020	1	1	16-Feb	1 day	C Certificate Exam		18
33	2020	1	1	5-Mar	1 day	Convocation Duty		12
34	2020	1	1	18 June -20 June	2 days	Yoga Day Practice		All
35	2020	1	1	21-Jun	1 day	International Yoga Day	Fitness	All
36	2020	1	1	26-Jul	1 day	Kargil Vijay Diwas Webinar	Vijay Diwas	Open to all
37	2020	1	1	17-Jul	1day	Educational Lecture : " Vitamin D deficiency and coronary artery disease	Educational Lecture	200
38	2020	1	1	6-Mar	1day	Poster making competition	Organised on Women Day	40
39	2020	1	1	22-Apr	1day	Save Earth	Awareness about Save Earth	50
40	2020	1	1	8-May	1day	Covid Awarness Poster Making Competition	Covid Awarness	40
41	2020	1	1	11-Jun	1day	Motivation Lecture	How to spend life during lockdown	50
42	2020	1	1	21-Jun	1day	Yoga Day Practice	How yoga is beneficial for bodies immune Sysem	40
43	2020	1	1	23-Jun	1day	Yoga Day Practice	International Yoga Day	50



**Annexure-XXXIII**  
**Activities Conducted for Promotion of Universal Values and Ethics Academic**  
**Year (2019-20)**

<b>Activity</b>	<b>Duration From</b>	<b>Duration To</b>	<b>Number of participants</b>
Orientation Programme-107	11.02.2020	02.03.2020	22
Orientation Programme-106	13.11.2019	03.12.2019	23
Environmental Sciences	10.12.2019	23.12.2019	35
Winter School	11.12.2019	24.12.2019	36
Human Rights (ID)	06.12.2019	19.12.2019	27
Gender Sensitization	05.02.2020	11.02.2020	25
Environmental Awareness	13.02.2020	19.02.2020	27
Higher Education	28.02.2020	29.02.2020	24
Plagiarism and Ethical Issues in Research Work	03.03.2020	09.03.2020	33



Government of India  
Ministry of Human Resource Development



*Certificate*

**NATIONAL INSTITUTIONAL RANKING FRAMEWORK**

**INDIA RANKINGS 2020**

**Guru Nanak Dev University, Amritsar  
Ranked 51 in University Category**

*Kwessand*

CHAIRMAN, NBA

*Chinbar*

MEMBER SECRETARY, NBA



**Prof. (Dr.) Jaspal Singh Sandhu, Vice Chancellor felicitating  
Sh. V.P. Singh Badnore, Hon'ble Governor, Govt. of Punjab at  
46th Annual Convocation of the University**

**Year 2019-2020**