Department of Biotechnology

Proforma for submission of Annual Progress Report supported under Star College Scheme

(Kindly note that the annual report from Point 6 to 10, should not be more than 5 A4 size sheets, with font size 12pt and line spacing 1.5)

1. Name of the College : Atma Ram Sanatan Dharma College, University of Delhi

2. Name of Coordinator, designation, Address, Phone nos.: Prof. Vinita Tuli, Department of Physics, Atma Ram Santan Dharma College, University of Delhi, New Delhi-110021

3. Assessment duration : ---/---/---- to ---/---/---- Duration in years : 01 year

4. Details of Departments Supported

Sl No	Name of Department	Courses (B.Sc./M.Sc./PG Diploma, certificate etc) offered	Regular Faculty members	
			Total =	
			With Ph.D.	Without Ph.D.
1.	Chemistry	B.Sc. Physical Sciences and Honours	23	02
2.	Botany and Zoology	B.Sc. Physical Sciences	04	00
3.	Computer Science	B.Sc. Physical Sciences and Honours	05	07
4.	Electronics	B.Sc. Honours	05	03
5.	Mathematics	B.Sc. Physical Sciences and Honours and B.A (Program)	08	10
6.	Physics	B.Sc. Physical Sciences and Honours	23	03

5. Number & Date of Advisory committee meeting:

6. Qualitative improvements due to DBT support. Please highlight 5 salient points (within 500 words).

(You may enumerate 5 minor projects where students were involved and their impact or similar activities and their outcome; this is for representative purpose and coordinator may include details as per his own choice; kindly refrain from providing philosophical data Avoid any introduction. All the justifications must be very crisp like any aspect non-existent pre-STAR Scheme and you achieved after the grant).

Better experimental facilities for 4th year under NEP: DBT funding has been effectively utilized for the development, modernization, and strengthening of laboratory facilities for 4th year students. The DBT-funded infrastructure has created better opportunities for innovation, hands-on experimentation, and skill development aligned with academic and industrial requirements. DBT funding has been utilized for upgrading important laboratories such as the Digital Communication Laboratory, Power Electronics Laboratory, Control Systems Laboratory, and CMOS Analog and Digital Laboratory.

Facilitating dissertation of 4th year students under NEP: The in-house projects granted for interdisciplinary research has strengthened the 4th year academic projects/ dissertation. The DBT

funding has facilitated in procuring the consumables like chemicals, glass wares, Sensors, Microcontrollers, Development Boards, Electronic Components and other resources required for project implementation.

Upgradation of undergraduate Laboratories and introduction of extended experiments: Across all departments the procurement of advanced instruments like UV-Visible Spectrophotometer, pH meter, autoclaves, deep freezer, LCR meter, SPR set-up etc. have widened the scope of hands of experiments and enabled introduction of many extended practicals. DBT support has significantly strengthened laboratory infrastructure and access to advanced computational tools, enabling high-fidelity EEG signal acquisition, processing, and analysis essential for BCI-based motor imagery research.

Workshops, Seminars and hands on trainings for faculty and students: Multiple seminars, faculty development programs, and training workshops were conducted, benefitting both students and non-teaching staff. Non-teaching personnel received skill-oriented training, improving lab management and technical efficiency.

Boost in Undergraduate Research and Interdisciplinary Collaboration: Across all departments—Mathematics, Physics, Chemistry, Computer Science, Electronics, Botany, and Zoology—there has been a marked increase in undergraduate participation in research projects. These include interdisciplinary themes such as bioinformatics, green synthesis, AI-based diagnostics, and real-time sensor development. Initiatives like in-house student research groups and cross-departmental collaboration fostered a research-oriented culture and motivated a large number of our students to enroll for M.Sc.

Outreach Programs and Educational Visits: DBT funding supported field visits to institutions like Regional Centre for Biotechnology and Bharat Electricity Summit. Outreach programs involved training school students (e.g., participants from Cambridge Foundation School, Rajouri Garden) in scientific computation, basic biotechnology, and lab demonstrations. The program also provided an opportunity for students to interact with faculty members and gain insights into higher education pathways and interdisciplinary career opportunities.

<u>Department of Mathematics In-House Projects Ongoing under Star College Scheme 2025-26</u>

S. No	Project Code	Project Title	Investigators	Students
1	STARDBT MA01	Analysing Stock Prices to Construct a Profitable Portfolio	Mr. Raj Kumar Bhagat	Mayank Gupta, Chandra Prakash Singh, and Inderjeet Singh Yadav (B.Sc. (H)

			Mr. Anant Tiwari	Maths Sem-II)
2	STARDBT MA02	Application of Differential Equations in Climate Modelling	Mr. Chhatra Pal	Saniya Sarkar B.Sc. (H) Maths, Sem-IV
3	STARDBT MA03	A Study of Mathematical Modeling in Epidemics	Mr. Anil Kumar Rajak Mr. Kapil Kumar	Shreyansh Palival, B.Sc. (H) Maths, Sem-VIII, Himanshi,Anurag Mishra.,Sunny Kumar and Manav Chawla(B.Sc. (H) Maths, Sem-VI)
4	STARDBT MA04	Linear Programming in Real-Life Problems	Dr. Priyanka Yadav	Anurag Mukherjee, Shubhra Ranjan Patra, Tarun Sharma and Aditya Singh, B.Sc. (H) Maths,
5	STARDBT MA05	Case study of Vedic Sutra-Nikhilam	Dr. Preeti Jain	Radha Krishna, Ashish Mishra, Anshul Patel(B.Sc. (Prog.) Computer Science)
6	STARDBT MA06	Case study of concept of square root- Vilokanam	Dr. Preeti Jain	Shweta Kumari B.Sc. (H) Maths Sem-VIII, Garima Singh Maths and Nidhi B.Sc. (H) Maths.
7	STARDBT MA07	Asymptotic Stability of Perturbation of Operator Semigroup on Banach Spaces	Dr. Shard Rastogi	Shalu Yadav (B Sc. (H) Maths, Sem-IV)
8	STARDBT MA08	The Cayley transform of the generator of a polynomially stable delay semigroup	Dr. Shard Rastogi	Shalu Yadav (B Sc. (H) Maths, Sem-IV)
9	STARDBT MA09	Applications of Group Theory and Linear Algebra	Dr. Pratibha Mehrotra Dr. Shilpi Jain	Prashant Kumar, Manish Sharma, Abhay Gupta and Aditya Kumar (B.Sc. (H) Maths Sem-VI)
10	STARDBT MA10	A study on number theoretic functions and it's applications	Dr. Shilpi Jain Dr. Pratibha Mehrotra	Prashant Kumar, Manish Sharma, Abhay Gupta and Aditya Kumar(B.Sc. (H) Maths Sem-VI)
11	STARDBT MA11	Rediscovering the Methods of Ancient Indian Mathematicians: A Study of Their Utility	Dr. Kunwar Vijay Kumar Singh	Ayush Kushwaha, Anukriti Dubey, Keshav Dubey and Jeetpal Baruah (B.Sc. (H) Maths Sem-VI)
12	STARDBT MA12	Accuracy of Ancient Indian Astronomical Instruments and Calculations	Dr. Kunwar Vijay Kumar Singh	Aliza Jasmine and Saket Saurav (B.Sc. Phy. Sci., Electronics) Vaibhav Shukla and Devesh (B.Sc. (H) Chemistry)

Chemistry In-house Project Proposal Under STAR College Scheme 2025-2026

S.No.	Project Code	Project Tittle	Principal Investigator	Students Name
1.	**STARDBT(CH-19)**	An insight for the interaction of EMs of Aspirin with GO through multi-facet techniques	Prof. Jaya Tomar	
.2.	**STARDBT(CH-20)**	Understanding Deep Eutectic Solvents (DES) - Dye interactions: Behavior of DES with Congo red	Prof. Prashant Singh	
3.	**STARDBT(CH-21)**	Synthesis of Magnetic Nanoparticles using Tulsi Leaf and application for dye degradation	Dr. Anil Kumar	Arpit chaubey, Hemant Singh Jeena
4.	**STARDBT(CH-22)**	Removal of Heavy Metals from Wastewater by Various Adsorbent	Dr. Anjali Verma	Amritraj, Kuldeep Singh
5.	**STARDBT(CH-23)**	Synthesis and Characterization of Adsorbent–Metal Alginate Hybrid Biosorbent for the Adsorptive removal of toxic dyes	Prof. Rajeev Singh	
6.	**STARDBT(CH-24)**	Comparative Study of Commercially Available	Dr. Suman	Tanya

		synthetic and herbal based sunscreens	Dudeja	Sehrawat, Manisha
7.	**STARDBT(CH-25)**	Synthesis and characterization of virtually screened Schiff's bases and their metal complexes	Prof. Sunita Bansal	
8.	**STARDBT(CH-26)**	Rational Synthesis of Pyrazolopyrimidines via Cyclocondensation of Ynones Obtained from Sonogashira Reaction	Prof. Sunita Bhagat	Divyanshi
9.	**STARDBT(CH-27)**	Low temperature synthesis of rare earth doped metal molybdate based nanophosphor for lighting application	Dr. Naorem Premjit Singh	
10.	**STARDBT(CH-28)**	Synthesis, Purification and Characterization of Biologically Active Peptides	Dr. Snehlata	Sushant Sharma, Versha Behwal
11.	**STARDBT(CH-29)**	To test Effectiveness of commercially available liquid detergents and their contribution in water pollution	Dr. Neeta Azad	
12.	**STARDBT(CH-30)**	Green Synthesis, Characterization and Bio-efficacy of Isoindolobenzoxazine derivatives	Dr. Sangeeta Aggarwal	Anshu, Shakshi Awasthi
13.	**STARDBT(CH-31)**	Synthesis and Application of Propargylamines	Dr. Nidhi Dureja	
14.	**STARDBT(CH-32)**	Development of Green Routes for Transition Metal-Based Compounds: A Step Toward Sustainability	Dr. Amit Kumar Sharma	
15.	**STARDBT(CH-33)**	Green Synthesis, Characterization and applications of Fe_3O_4/rGO Nanocomposites for Enhanced Visible-Light-Induced Photoactivity towards Organic Pollutants Degradation	Mr. Neeraj Mishra	
16.	**STARDBT(CH-34)**	Design, Synthesis, Computational and Biological Study of pyranopyrazole-1,2,3-triazole hybrids	Dr. Bhaskara Nand	Dollypriya Dutta, Natali Burangohain
17.	**STARDBT(CH-35)**	Synthesis and Application: Phosphorus Corrole for Anti-cancer Activities	Dr. Omprakash Yadav	
18.	**STARDBT (CH-36)**	Dyes/Organic pollutants degradation using Cobalt Acetate/Nickel Acetate opting advanced oxidation processes	Dr. Nimalini Moirangthem	
19.	**STARDBT (CH-37)**	Synthesis of Metal oxide Nanoparticles using vegetable peel extract	Dr. Preeti Chaudhary	
20.	**STARDBT (CH-38)**	Synthesis of Metal-Organic Frameworks (MOFs) and Characterization and their Application	Mr. Bachan Meena	

Physics In-house Project Proposal Under STAR College Scheme 2025-2026

Project Code	Project title	Investigators	Students Names
STARDBT (PH-01)	Development of 2D transition metal dichalcogenides heterostructures electrodes for energy storage applications.	Dr. Raghvendra Pandey	Sajal Rana (BSc (H) Physics IV year, Kanchan Chaudhary (M.Sc. (Prev) Physics, DU)

STARDBT (PH-02)	Investigation on 2D transition metal dichalcogenides nanocomposite for high performance sensing applications.	Dr. Raghvendra Pandey	Devvats (BSc (H) Physics IV year, Akshita (BSc (H) Physics IV year)
STARDBT (PH-03)	Synthesis and characterisation of perovskites for catalytic degradation of dyes	Dr.Swati Jharwal and Dr Rita Singh	Abhaas Mishra,B.Sc(H) Physics, II year, Vikash Kumar, B.Sc(H) Physics, II year
STARDBT (PH-04)	Electrochemical Investigations on Nanocomposites for Energy Storage Applications	Dr. Anjani Kumar Singh	Vidhi, Research Scholar, 4th year
STARDBT (PH-05)	Synthesis and characterisation of perovskite nanomaterials for spintronic applications	Dr. Rita Singh and Dr. Swati Jharwal	Anuj ,B.Sc(H) Physics, III year, Ayush Kumar, B.Sc(H) Physics, III year Utkarsh Singh , B.Sc(H) Physics, IV year
STARDBT (PH-06)	Development of Rare Earth Doped A2BNb5O15 (A=Ca, Ba, Sr and B= Li, K, Na) Phosphors for Solis state lighting Applications	Dr. Amit Kumar Vishwakarma	Deepanshu B.Sc.(H) Physics & Shweta Meena B.Sc.(H) Physics
STARDBT (PH-07)	Synthesis of calcium based nanoparticles for biomedical applications	Dr. Rajveer Singh	Dhruv Verma and Mr. Siddarth Bohra , B.Sc (Hons.) Physics, Semester : VIII
STARDBT (PH-08)	Fabrication and characterization of metal chalcogenide-based nanostructures for effective photosensing by low-cost methods	Dr. Devendra Kumar Rana	Rahul Kumar, Ashish Tyagi, Kostubh, Kamya Vardhan
STARDBT (PH-09)	***Carbon coated nano-material-based nano-composites for supercapacitors***	Dr. Yogesh Kumar	Suresh Kumar and Manoj B.Sc. 3rd year
STARDBT (PH-10)	Development and Evaluation of Non-Precious Metal Oxide Catalysts for Alkaline Water Splitting	Dr. S. Shankar Subramanian	Samriddhi Wani, B.Sc. (Prog.) Physics and Varsha, B.Sc. (Prog.) Physics
STARDBT (PH-11)	Investigation of CNT-Metal Matrix Composites (MMCs) for Aerospace Structural Components	Dr. S. Shankar Subramanian and Dr. Avanish Pratap Singh Rajput,	Samriddhi Wani, B.Sc. (Prog.) Physics and Varsha, B.Sc. (Prog.) Physics
STARDBT (PH-12)	Study of Biocompatible Thermoelectric Chalcogenides.	Dr. Manisha	Sinjini and Prantik B.Sc. (H) Phy. 2nd sem
STARDBT PH-13)	Synthesis & study of Biochar Nanocomposites.	Dr. Manisha	Ms. Sakshi (PhD. Scholar), B.Sc. (H) Phy. 2nd sem (Sinjini, Prantik)

STARDBT (PH-14)	Synthesis and characterization of perovskite electroceramics for excellent dielectric and ferroelectric performance	Dr. Abid Hussain, Prof. Vinita Tuli, Dr. Raghvendra Pandey and Dr. Amit Kumar Vishwakarma	Mr. Ashish Patel and Mr. Kushagra Jain,B. Sc. (Hons.) Physics, 3rd Year

Computer Science In-house Project Proposal Under STAR College Scheme 2025-2026

Project Code	Investigator	Objective (as stated in proposal)
STARDBT(CS-01)	Dr. Lokesh Kumar Shrivastav	Lung Cancer Detection and Prediction using Radiological Dataset
STARDBT(CS-02)		Lung Cancer Detection and Prediction using Histopathological Dataset
STARDBT(CS-03)		Quantum Computing: Progress and Prospects
STARDBT(CS-04)	Dr. Parul Jain	Research on developing a Discord Bot using Voice Assisted Commands and Artificial Intelligence
STARDBT(CS-05)	Mr. Manvendra Yadav	Developing an ERP software for the college
STARDBT(CS-06)	Ms. Archna Gahlot	Data collection from different public sources. Preprocessing of datasets Proposed to create a Convolution Neural Network (CNN) for the classification of brain disorders. Explainable classification of decisions made by the CNN
STARDBT(CS-07)	Ms. Rashmi Mishra	Brain-Computer interface-based Motor Imagery Classification using machine learning techniques
STARDBT(CS-08)		Deep Fake Video Identification using machine learning techniques

Department of Botany/Zoology In- house project under star college scheme(2025-2026)

S.NO	PROJECT TITLE	INVESTIGATORS	STUDENTS
1.	An *in silico* approach to find evolution of Fatty Acid Desaturase 2 (FAD2) gene in Oilseed Crops.	Dr. Anita Singh Dr. Nupur Mondal	B.Sc. (H) Chemistry VIII Semester Deepali, Pankaj,B.Sc. (P) CS II Semester Geetansh and Naman B.Sc. (H) Chem II Sem
2.	Transpiration rate of medicinal plants present in the Herbal Garden of ARSD college.	Dr. Anita Singh Dr. Nupur Mondal	Riya , Sachin, Shrishti Sharma and Raima, 45542 (B.Sc. (P) Industrial Chemistry II Semester)
3.	Comparative analysis of Artificial diet on biological parameters of Silkworm *Bombyx mori Linn*	Dr. Kanchan Srivastava	Tanu Shree BSc.(H) Comp.Sc IIIrd year and Aditya BSc. H Maths
4.	To Study the BMI (Body mass index) and BMR (Basal Metabolic Rate) amongst students.	Dr. Kanchan Srivastava	Tanishq Rana, Priyansh Vats ,Nikhil B.Sc. (H)Maths IInd year Nitish Murari B.Sc. prog IInd year

5.	To study the adulterants in food available in market (Milk, Ghee, Jaggery, Spices).	Dr. Kanchan Srivastava Dr. Preeti Chaudhary	Sarthak Jaiswal, Ayush Garg ,Harshit, Pradeep BSc prog. IIIrd year
6.	To develop rapid detection methods for detection of microbial contaminant in food and water.	Dr. Swati M. Biswas Dr. Suman Dudeja	B.Sc. (H) Chemistry Srusti (worked till last year)
7.	To trace the evolutionary history of disease causing gene using bioinformatics tool.	Dr. Swati M. Biswas	

7. Any Novel aspect introduced or planning to introduce during the Scheme duration.

Department of Biology

1. **Develop One-step Detection Method:** For microbial contaminants in food and water using cost effective materials.
2. **Bioinformatics based tracing:** Tracing evolutionary history of genes related to neurodevelopmental disorders.
3. **Identification and extraction of bioactive compounds:** For medicinal plants like neem, tulsi, eucalyptus etc. and checking their potency as microbial inhibitor.
4. **Silk Production Optimization**: Study of artificial diet impact on Bombyx mori.
5. **Vermicomposting:** For biodegradable waste management in the campus.
6. **Rapid Pesticide Detection in Soil**: Development of cost-effective field test methods

Department of Chemistry

1. **Eco-friendly green synthesis using leaves extract**: acts as a solvent, reducing agent, and capping agent, ensuring a non-toxic and energy-efficient process.
2. **Highly efficient dye degradation:** achieved using the Fe_3O_4 + H_2O_2 system, with over 99% removal within 30 minutes under ambient conditions.
3. **Sustainable approach to synthesis**: ensuring minimal waste generation and eliminating the requirement for harsh or toxic chemicals**.**

Department of Computer Science

1. **Intelligent Chatbot:** Development of an intelligent chatbot using advanced Natural Language Processing (NLP) and machine learning techniques with an aim to provide context-aware, multilingual, and adaptive responses with improved user interaction capabilities.

   2. BCI-Based Motor Imagery Classification: BCI-based motor imagery classification through the integration of advanced machine learning and deep learning techniques such as Convolutional Neural Networks (CNNs), Long Short-Term Memory (LSTM) networks, and hybrid models for robust EEG signal interpretation.

Department of Electronics

1. **Design and Development of Accident Detection and Alert System using GPS and GSM**: low-cost and efficient accident detection and emergency alert system using ESP8266, accelerometer, GPS, and GSM modules.
2. **Analyzing Health & Well-Being of Students Using Data Science and Machine Learning:** This project offers a practical, modular, and cost-effective Machine Learning models such as Logistic Regression and Random Forest to predict wellness trends. The results were presented through interactive Power BI dashboards for effective visualization and analysis.
3. **Design and Implementation of Energy-Harvesting Smart Roads Using**

Piezoelectric and IoT-based System

4. **Automatic Mini Solar Tracking System**: An Arduino-based solar tracking system uses LDR sensors and a servo motor to automatically align solar panels toward maximum sunlight for enhanced energy efficiency.

Department of Mathematics

1. **Student In-House Research Project: A Foundation for the Dissertation of Fourth-Year Students (Under NEP):** Several students are currently engaged in these research projects, while some have completed them under the guidance and supervision of faculty members. This initiative helps students develop analytical thinking, problem-solving abilities, and mathematical writing skills through the investigation and identification of research problems. It also provides a strong foundation for the dissertation or academic project required for the completion of the four-year Undergraduate Degree with Research under the NEP framework.
2. **Extended Practical / Lab work to be done in Maxima Software:** Several extended practicals were introduced based on Maxima software in the undergraduate curriculum for problem solving, enhanced visualization and understanding of mathematical concepts and potential applications.
3. **Skill-Based Add-on Courses and Training Programs: S**everal training programs, seminars, and workshops have been conducted for both students and faculty members. Department plans to introduce skill-based add-on courses, particularly in software-related areas, under this scheme.

Department of Physics

1. **UV- Visible spectrophotometer:** For studying optical absorption/transmission properties of nanoparticles.
2. **SPR based studies**: Evaluation of the refractive index of nanomaterial for sensing applications.
3. **Non-Precious Metal Catalysts for Water Splitting**: Cobalt and manganese-based catalysts for sustainable hydrogen generation.
4. **LCR meter:** To study electrical conductivity, dielectric properties, impedance characteristics, and frequency-dependent behavior of different materials and capacitors.
5. **Workshops on characterization techniques for faculty and students**
6. **Encouraging students for taking summer internships in other departments of the college to promote interdisciplinary learning.**

8. Lessons learnt / difficulties faced/suggestions if any, in implementation of the programme and utilization of DBT grant. (Max 3 points within 300 words).

Limited time for utilization of funds: Departments reported that the time allotted for utilization of funds is very limited. The new session began in August 2025 with barely two months left for funds utilization. A time span of 7-8 months in the financial year will greatly help in conducting workshops and other programs throughout the academic year.

Need for Flexibility and Clear Guidelines in Fund Utilization: Many departments reported a lack of clarity on whether expenses for research training, conference participations, travelling allowances, costs for honorariums, or external characterizations are allowed under the DBT grant. Introducing flexible budgeting and

clearer permissible expenditure guidelines would enhance the scheme's impact. Limitations in modifying or substituting the sanctioned apparatus list make the procurement process more difficult, resulting in delays in laboratory development, experimental activities, and timely completion of student projects.

Infrastructural and Technological Limitations: Departments noted a lack of high-end computing facilities (e.g., GPU workstations for AI) and essential licensed software tools like (e.g., MATLAB, Mathematica), and full sets of requested lab instruments. The departments noted that adequate provisioning of such infrastructure is essential for advanced-level undergraduate research and practical work.

9. **Key performance indicators**

S.No	Indicator	Pre-support (2023-2024)	During /After Support (2024-2025)	During /After Support (2025-2026)	Remarks
1	No. of students admitted	**Total =613** **M=489** **SC** 81 **F=124** **SC** 16 **ST** 07 **ST** 05 **OBC** 144 **OBC** 25 **G** 257 **G** 78	**Total =739** **M=523** **SC** 79 **F=216** **SC** 22 **ST** 16 **ST** 05 **OBC** 150 **OBC** 45 **G** 278 **G** 144	**Total =620** **M=465** **SC** 78 **F=155** **SC** 39 **ST** 18 **ST** 05 **OBC** 139 **OBC** 19 **G** 230 **G** 92	
2	No. of students passing out (%) Students Admitted/passing out (pass %)	91 %	97.57%	Result Awaited	
3	Drop-out rates	Less than 1%	Less than 1%	Result Awaited	
4	No. of students opting for MSc	128	355	Result Awaited	
5	Average marks	7.2 (CGPA)	8.1 (CGPA)	Result Awaited	
6	No. of hands-on experiments being conducted	00	03	36	Annex-1
7	No. of new experiments introduced	00	11	55	Annex-2
8	Publications (scopus indexed) /patents, if any.	174	197	459, 6 Patents	Annex-3
9	Training received by faculty	00	03	02	Annex-4
10	Exhibitions/seminars/training courses conducted	00	11	09	Annex-5
11	Books/journals subscribed from grants	Nil	Nil	Nil	
12	Outreach activities (Popular lectures)	00	09	06	Annex-6
13	Colleges mentored to apply for DBT Star College grants	0	0	0	
14	Invited lectures	0	03	02	Annex-7

- Proofs (S.No. 6-14 not more than 5 pages, 1.5 line spacing 11 times roman font size) to be provided duly

attested by Principal and Coordinator.

10. Self evaluation

Department	*Objective (as stated in proposal)	% achieved	Reasons for underachievement / If achieved, state in quantitative metrics
Biology	Hands-on Training in Bioinformatics	100%	Students were given hands on training in Bioinformatics.
	Workshop on "Mushroom in Relation to Entrepreneurship	100%	The hands on skills imparted were very useful.
	In house research project with involvement of students	50%	Time constraint for both faculties and students
	Outreach programme	100%	Trained school students of Class XII both through lectures and hands on training about various various aspects of biotechnology. Introduction to instrumentation facility in lab.
Chemistry	Photocatalytic and biological activity	80%	Lack of instruments
	Characterization part	70%	Lack of funds
	Application part	80%	Lack of funds
Computer Science	Lung Cancer Detection and Prediction using Radiological and Histopathological Dataset	75%	Experimental studies are ongoing to further improve and optimize the results.
	Quantum Kernel-Induced Feature Transport: A Preprocessing Architecture for Variational Quantum Classifiers	100%	The proposed architecture and simulation code have been developed. Results being optimized with additional experimentation. Preparing for communication to journal and conference presentation
	MARKDOWNPRO: Design and Implementation of an Integrated AI Powered Platform for Dynamic and Collaborative Technical Documentation	100%	A functional software prototype has been successfully developed and is presently in the testing and optimization phase. Preparing for communication to journal and conference presentation
	Research on developing a Discord Bot using Voice Assisted Commands and Artificial Intelligence	65%	Literature review, Design and Methodology has been done.
	Developing an ERP software for the college	90%	The software is developed and is in final stage of development.
	Data collection from different public sources. Preprocessing of datasets Proposed to create a Convolution Neural Network (CNN) for the classification of brain disorders. Explainable classification of decisions made by the CNN	75%	Data collection and preprocessing done. Experimentation is being carried out on the dataset. Explainable techniques are being studied and explored.
	Brain-Computer interface-based Motor	100%	Implemented and evaluated machine

	Imagery Classification using machine learning techniques		learning models for classification tasks. Achieved classification accuracy of **83.39%**. Presented research work at International Conference on Mathematical Sciences and its Applications.
	Deep Fake Video Identification using machine learning techniques	100%	Developed and tested machine learning models for deep fake identification. Achieved detection accuracy of **95.34%**.
Mathematics	All the In-House Research Projects	Ranges from 70% to 100%	1. Two of our students have presented their projects at an International Conference. 2. For some completed projects, comprehensive reports are currently being prepared. 3. Some projects are being prepared for presentation at National and International Conferences. The following work remains to be completed for the projects: • Stability analysis • Numerical simulation of epidemic models. • Exploration of the future scope of the research work Reasons: The pending work could not be completed on time due to time constraints for both students and faculty members.
	Department of Mathematics Computer Lab	100%	
Electronics	Application Part	90%	Lack of funds/ Software Tools
	Experimental work	75%	Lack of funds and essential Software tools
	Hands-on training for undergraduate students	100%	Hands-on training sessions provided invaluable insights into the design and implementation of sensor-based systems, focusing on industry-relevant tools such as Arduino, ESP32, Solar Cell and VLSI Design.
	Field-Trip	100%	This is a valuable academic experience for the Electronics Department students, offering firsthand insight into India's power infrastructure and the advanced technologies used to maintain and manage it.
Physics	Synthesis and Characterization of Advanced Functional Materials Application in Energy, Sensing, and Environmental Technologies Integration of Artificial Intelligence and Physics-Based Modeling	40-90%	Lack of instrument and funds

	Development of Low-Cost, Scalable, and Eco-Friendly Technologies		

* For quantitative analysis you may fix five objective (max) each having 2 marks and accordingly can calculate the matrix.

Course Coordinator
(With Seal)

Head of the Institution
(With Seal)

Annexure-1

List of hands-on experiments being conducted

Biology

1. Introduction to biological databases and their applications in bioinformatics research.
2. Performed nucleotide sequence retrieval for various plant and animal species using biological databases.
3. Studied the concept and identification of Open Reading Frames (ORFs) in nucleotide sequences.
4. Conducted Multiple Sequence Alignment (MSA) to analyze sequence similarities and evolutionary relationships.
5. Performed BLAST analysis for sequence comparison and identification of homologous sequences.
6. Preparation and sterilization of substrate materials for mushroom cultivation under controlled laboratory conditions.
7. Cultivation of edible mushrooms using suitable growth media and maintenance of optimal environmental conditions for mycelial growth and fruiting body development.
8. Analysis of soil for carbohydrate, chloride, nitrates, sulphate, organic matter using rapid field test.

Computer Science

Extended practical list implemented for Probability for Computing *(B.Sc. (H) Computer Science, Semester II)* using Python with Pandas, NumPy, and Matplotlib:

1. Descriptive Statistical Analysis: Calculation and visualization of mean, median, mode, variance, standard deviation, skewness, and kurtosis for a given dataset.
2. Data Cleaning and Preprocessing: Handling missing values, duplicate records, data transformation, normalization, and filtering operations on datasets.
3. Histogram and Frequency Distribution Analysis: Construction of histograms and frequency tables for grouped and ungrouped data with graphical interpretation.
4. Box Plot and Outlier Detection: Visualization of data dispersion using box plots and identification of outliers using quartiles and IQR method.
5. Linear Regression and Best Fit Line Visualization: Implementation of simple linear regression and plotting regression lines for predictive analysis.
6. Computation and Visualization of Covariance and Correlation Matrix: Generating heatmaps and interpreting relationships among multiple variables in a dataset.
7. Time Series Data Analysis and Visualization: Analysis of time-dependent datasets using moving averages, trend plotting, and rolling statistics.
8. Simulation of Central Limit Theorem (CLT): Demonstration of CLT using random sampling and visualization of sampling distributions for different sample sizes.

9. Monte Carlo Simulation using Random Variables Estimation of probabilities and numerical solutions using simulation-based techniques.
10. Comparative Study of Probability Distributions:Comparative graphical analysis of Binomial, Poisson, Normal, and Exponential distributions using the same dataset and parameters.

Electronics

Hands-on experiments performed by 4th year undergraduate students.

To study position and speed control of DC Motor.

1. To find torque speed characteristics of AC Servomotor.
2. To study time and frequency domain specifications of a control system.
3. MOSFET based chopper (DC-DC converter)
4. Design Basic Logic gates using a) VHDL b) Verilog
5. Design Half and Full Adder using a) VHDL b) Verilog
6. Design Half and Full Subtractor using a) VHDL b) Verilog
7. Design a 4:1 MUX/Multiplier Circuit using a) VHDL b) Verilog
8. Design an UP Counter using VHDL.
9. Design a 6T SRAM cell, simulate its read/write operation using LTspice
10. Design a 2:4 Decoder using a) VHDL b) Verilog
11. Implement a Current Mirror Circuit
12. Implement a Sample and Hold Circuit for a given sampling rate.
13. Implement a First order Switch Capacitor Filter
14. Implement a Simple Phase Locked Loop Circuit
15. Implement an A/D converter or D/A converter

Mathematics

Extended Practical / Lab work to be done in Maxima Software

1. To find the real root of algebraic and transcendental equations using the Method of False Position in Maxima Software.
2. To solve the system of linear equations using the SOR (Successive Over-Relaxation) Method in Maxima Software.
3. To study and illustrate the concepts of limits and continuity of functions using graphical representation in Maxima Software.
4. To illustrate the geometrical interpretation of Rolle's Theorem and Mean Value Theorem for functions defined on a given interval in Maxima Software.
5. To perform matrix operations and verifications of the Cayley-Hamilton theorem in Maxima Software.
6. To illustrate the Drug Assimilation in the bloodstream in Maxima Software.
    a) Model 1: Case of a single cold pill

b) Model 2: Case of a course of cold pills

Physics

1. Training the students to use the SPR set up.
2. To illustrate the use of LCR meter for impedance studies of prepared samples.
3. Synthesis and characterisation of nanoparticles / bulk materials by different methods and studying there structural properties .

Annexure-2

List of new experiments introduced

Chemistry

1. Find the stoichiometry of charge transfer complex formed between thiocyanate ions and Fe (III) by Job's method of continuous variation.
2. Differentiate between maleic and fumaric acid solutions by UV spectroscopy.
3. Determination of the effect of pH on absorbance maximum (UV-Vis spectra) of the organic compounds. (Aniline, Benzoic acid, phenol etc.)
4. Analyse UV-Vis absorption spectra of conjugated systems (e.g., β-carotene) and determine the HOMO-LUMO gap.
5. Use UV-Vis spectra of a pH-sensitive dye (e.g., phenolphthalein) to determine its pKa.
6. Study the effect of structure on the UV spectra of organic compounds.
7. Record the UV spectra of a weak acid (α-naphthol) at different pH and determine the dissociation constant in the ground state.
8. Measure absorbance vs. time data to study the kinetics of fast photochemical reactions (using Time-Resolved Absorption Spectroscopy for Reaction Kinetics).
9. Resolve and assign vibrational fine structure in the UV-Vis spectrum of iodine vapour.
10. UV spectra comparison of substituted benzenes (π–π* vs n–π*)
11. Preparation of VO (acac)2 and its characterisation by determining magnetic moment, UV-Visible and IR spectroscopy.
12. Synthesis of Cu2O, TiO2, Fe3O4, ZnO and NiO Nanoparticles and characterization byUV/Vis spectroscopy.
13. Photocatalytic degradation of Methylene Blue dye using Cu2O, TiO2, Fe3O4, ZnO, and NiO Nanoparticles and UV/Vis studies.
14. Measurement and interpretation of different spectra from UV-Vis, IR and NMR using organic,inorganic compounds and molecules
15. Determination of hexavalent Chromium Cr(VI) concentration in tannery wastes/waste water sample using UV-Vis spectrophotometry technique.

Botany and Zoology

1. Isolation of bacterial genomic DNA using the alkaline lysis method.
2. Extraction of plasmid DNA from bacterial cultures and visualization of isolated DNA using agarose gel electrophoresis (AGE).
3. Quantification of DNA using Spectrophotometer.
4. Amplification of genomic DNA through Polymerase Chain Reaction (PCR) using specific primers under optimized reaction conditions.
5. Restriction digestion of genomic DNA using restriction endonucleases followed by separation and analysis of DNA fragments through agarose gel electrophoresis.

6. Detection and analysis of Barr bodies in blood and cheek cell samples for cytological examination.

Computer Science

New experiments introduced in Natural Language Processing *(B.Sc. Phy. Science Computer Science, Semester VIII)* using Python Packages like scikit-learn (SKLearn), NLTK, spaCy, gensim, PyTorch, transformers from Hugging Face, etc. may be used for programming.

1. Perform sentiment analysis on a collection of movie/product reviews using NLP libraries and classify the reviews as positive, negative, or neutral.
2. Implement text similarity analysis using cosine similarity on TF-IDF vectors for a given set of text documents and identify the most similar document pairs.
3. Train and visualize Word2Vec embeddings using gensim for a sample corpus and find semantically similar words.
4. Build a simple text classification model using machine learning techniques such as Naïve Bayes or Logistic Regression to classify news articles or emails into predefined categories.
5. Use transformer-based pre-trained models from Hugging Face Transformers library for text summarization or question answering on a given paragraph/document.

Electronics

New Experiments Introduced in IoT Using Arduino and Raspberry Pi

(For B.Sc. (Hons.) Electronics 3rd and 4th Year Students)

List of Experiments that can be performed in IOT Trainer using A

1. To interface 8 LEDs with Arduino and perform sequential blinking operations.
2. To interface RGB LED, 2 Relays, Buzzer, 16x2 LCD, 4x4 key matrix and Ultrasonic Sensor with Arduino
3. To interface ADC, DAC and PIR Sensor with Arduino
4. To interface the MQ-135 gas sensor with Arduino and monitor air quality by detecting harmful gases in the environment.
5. To interface Bluetooth module to Arduino and display the data send through mobile via Bluetooth on Serial Monitor
6. To interface wifi module to Arduino and Control the LED from a Webpage via Wifi
7. To interface DHT11 and Wifi module with Arduino and send Temp & Humidity to Cloud and graphically represent the data in realtime
8. To interface Stepper motor, Servo motor, Pulse Sensor and Sound Sensor with Arduino turn on and off a relay
9. To interface LDR sensor with Arduino and Turn on and off the Led based on the light present
10. To Interface IR sensor with Arduino and Blink LEDs 3 times on detection of object

11. To interface Hall Effect Sensor with Arduino and Blink the LEDs on Detection of magnet
12. To interface Soil moisture sensor with Arduino and Display the moisture in % in serial monitor
13. To interface Color sensor with Arduino and detect RED, Blue and Green Color
14. To interface Ds1820 Temperature sensor probe to measure the temp of Water/soil
15. To Interface Reed sensor with Arduino and Blink LED on detection of Magnet\
16. To interface Flame sensor with Arduino and turn on the Buzzer on detection of fire
17. To interface XY Joystick with Arduino

Mathematics :

Extended Practical / Lab work to be done in Maxima Software

1. To find the real root of algebraic and transcendental equations using the Method of False Position in Maxima Software.
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   a) Model 1: Case of a single cold pill
   b) Model 2: Case of a course of cold pills

<u>Physics</u>

1. To study the electrical conductivity of a given material specimen using an impedance analyser/LCR meter.
2. To estimate the dielectric constant and loss tangent of insulating materials/pellets from capacitance measurements.
3. To Investigate the impedance, reactance, and phase angle of a material using AC measurements from the LCR meter.
4. To study the variation of capacitance and dissipation factor with frequency for different capacitor types using the LCR meter.
5. Synthesis of metal (e.g Ag) nanoparticles by chemical route and study its optical absorption properties.
6. Synthesis of semiconductor ($CdS/ZnO/TiO_2/Fe_2O_3$) nanoparticles and study its optical absorption properties as a function of ageing time.

List of Scopus Papers

S.No.	Authors	Title	Year	Source title	Volume	Issue	Art. No.	Page start	Page end	DOI	Link	Source
1	Singh M.K.; Ji G.; Kumar V.; Sharma A.; Shankar U.; Kumar P.; Gupta R.N.; Gautam R.K.S.; Kumar M.; Katiyar J.K.	Sustainable development of copper matrix hybrid composites using waste stainless steel chips: a physical and tribological investigation	2026	Scientific Reports	16	1	8649			10.1038/s41598-026-42090-1	https://www.scopus.com/pages/publications/105033344437?origin=resultslist	Scopus
2	Polke B.G.; Rashankar S.; Suradkar R.; Lande M.K.; Aslam M.; Singh P.; Kumari J.; Sriram D.; Bondle G.M.	A green, deep eutectic solvent mediated one-pot synthesis, characterisation, molecular docking studies, and antitubercular activities of dihydropyrimido[4,5-b]naphthyridine derivatives	2026	Journal of Molecular Structure	1356		145078			10.1016/j.molstruc.2025.145078	https://www.scopus.com/pages/publications/105025163888?origin=resultslist	Scopus
3	Aquib M.; Iqbal M.	Sharp Chen inequalities for QR-submanifolds in quaternionic space forms	2026	AIMS Mathematics	11	6		15469	15484	10.3934/math.2026636	https://www.scopus.com/pages/publications/105041081547?origin=resultslist	Scopus
4	Sehdev N.; Malik R.; Annapoorni S.	Role of Plasma Geometry in the Growth of L10 CoPt Films and Its Influence on Texture Evolution and Magnetic Anisotropy	2026	Journal of Materials Engineering and Performance						10.1007/s11665-026-13856-5	https://www.scopus.com/pages/publications/105035021664?origin=resultslist	Scopus
5	Thakur Y.; Choudhary A.; Tripathi M.; Sarojinee R.; Sharma A.K.; Sharma R.	Protein and Lipid Nanomaterial Based Functional Construct	2026	Engineering Materials	Part F1493			235	258	10.1007/978-981-95-3581-1_10	https://www.scopus.com/pages/publications/105030927991?origin=resultslist	Scopus
6	Yogi S.; Kumar P.; Bhardwaj N.; Sulania I.; Jain V.K.; Kumar A.	Chemiresistive Sensing Platform for Trace-Level CO Gas Detection Using RGO/CuO Nanocomposite	2026	Lecture Notes in Electrical Engineering	1491 LNEE			145	156	10.1007/978-981-95-3305-3_13	https://www.scopus.com/pages/publications/105039267000?origin=resultslist	Scopus
7	Gupta S.; Singh Y.K.; Dwivedi D.K.; Kumar M.; Lohia P.; Yadav R.K.; Kulshrestha U.; Singh M.K.	Filtered Spectrum Assisted Design for Enhanced Photocurrent Matching in Mixed Pb-Sn Based all Perovskite Tandem Solar Cell	2026	Journal of Inorganic and Organometallic Polymers and Materials						10.1007/s10904-026-04387-6	https://www.scopus.com/pages/publications/105041526777?origin=resultslist	Scopus
8	Goel N.; Tiwari R.; Yadav A.; Kumari P.; Bhagat S.	Synthetic Strategies and Anticancer Potential of Triazine Derivatives: A Comprehensive Review	2026	Chemical Record						10.1002/tcr.70131	https://www.scopus.com/pages/publications/105033286560?origin=resultslist	Scopus

9	Kumar A.; Verma K.; Prajapati B.; Kumar M.	Advancement in Thermoelectric Performance in Lead Free Perovskites	2026	Topics in Applied Physics	157			305	342	10.1007/978-3-032-24873-2_11	https://www.scopus.com/pages/publications/105040053552?origin=resultslist	Scopus
10	Sathoria P.; Aslam M.; Singh P.; Rai U.; Roy B.	Molecular and functional characterization of asprosin receptor, protein tyrosine phosphatase receptor delta (ptprd) in gonads of Channa punctata	2026	International Journal of Biological Macromolecules	351		150837			10.1016/j.ijbiomac.2026.150837	https://www.scopus.com/pages/publications/105032509252?origin=resultslist	Scopus
11	Jain P.; Ansari M.R.; Peta K.R.; Shankar S.; Thakur O.P.	Synthesis of multi-functional ferrite Co0.91Cu0.09Er0.10Fe1.90O4 and MgFe2O4 nanocomposites for high-efficiency electrochemical energy storage systems	2026	Journal of Energy Storage	168		122577			10.1016/j.est.2026.122577	https://www.scopus.com/pages/publications/105038627385?origin=resultslist	Scopus
12	Lamba P.; Gupta M.; Singh P.; Shekhar A.; Singh P.; Kumari P.; Kumar Y.; Singh P.; Singh S.	Phyto-assisted synthesis of cobalt oxide nanoparticles using Terminalia arjuna bark for efficient supercapacitor electrode applications	2026	Ionics	32	4		4695	4707	10.1007/s11581-026-07032-x	https://www.scopus.com/pages/publications/105031920764?origin=resultslist	Scopus
13	Kumar R.; Chugh R.; Jabin S.; Singh P.	The Pivotal Role of Nanomaterials in Energy Storage Devices	2026	ChemistrySelect	11	13	e07198			10.1002/slct.202507198	https://www.scopus.com/pages/publications/105035465081?origin=resultslist	Scopus
14	Raj A.; Das N.; Verma A.A.; Tripathi V.M.; Gautam R.K.S.; Singh M.K.; Kumar M.	Optimization of CsGeI3 lead-free perovskite solar cells through transport-layer-dependent charge extraction and recombination dynamics	2026	Electrochimica Acta	562		148699			10.1016/j.electacta.2026.148699	https://www.scopus.com/pages/publications/105033549416?origin=resultslist	Scopus
15	Gupta A.; Kumar A.; Surbhi; Rathore M.S.; Sharma H.; Yadav M.K.; Kumar A.; Kumar A.; Srivastava M.P.; Rana D.K.	Mn-doped ZnS thin film heterojunctions for fast and broad range visible–UV photodetection	2026	Physica B: Condensed Matter	734		418631			10.1016/j.physb.2026.418631	https://www.scopus.com/pages/publications/105036050698?origin=resultslist	Scopus
16	Kumar M.; Malker P.; Chaudhary V.; Singh B.; Dwivedi D.K.; Singh M.K.; Pundir S.K.; Kumar M.	Optimizing grading profiles for enhanced photovoltaic performance in CsGeI3-xBrx perovskite devices	2026	Journal of Physics and Chemistry of Solids	208		113224			10.1016/j.jpcs.2025.113224	https://www.scopus.com/pages/publications/105017001641?origin=resultslist	Scopus
17	Prajapat A.; Singh M.B.; Bhagat P.; Kabane B.; Singh P.	Investigate the designing of deep eutectic solvents and their interaction with Congo red through DFT calculations and MD simulations	2026	Journal of the Indian Chemical Society	103	2	102383			10.1016/j.jics.2025.102383	https://www.scopus.com/pages/publications/105026491407?origin=resultslist	Scopus

18	Jharwal S.; Gupta A.; Verma V.K.; Kumar A.	Fe Substitution Modified Spontaneous Exchange Bias and Magnetic Properties Tunability of La2Co2-xFexO6 Nanoparticles	2026	Physica Status Solidi (B): Basic Research	263	4	e202500449			10.1002/pssb.202500449	https://www.scopus.com/pages/publications/105022895506?origin=resultslist	Scopus
19	Kumar P.; Banerjee K.; Kumar Y.; Vikal M.	Ultrasonically Synthesized Deep Eutectic Solvents with Additive Engineering: Unraveling an Anomalous Ionic Conductivity Trend and the Paradox of High-Viscosity Potassium Iodide	2026	Biointerface Research in Applied Chemistry	16	2	51			10.33263/BRIAC162.051	https://www.scopus.com/pages/publications/105035891883?origin=resultslist	Scopus
20	Kumawat V.; Mohapatra S.C.; Singla M.; Singh R.	N-Heterocyclic Carbene-Silver(I) Complexes: Emerging Developments for Medicinal Applications	2026	Current Bioactive Compounds	22	5				10.2174/0115734072349038250131050619	https://www.scopus.com/pages/publications/105037129217?origin=resultslist	Scopus
21	Kumar M.; Gupta K.; Chaudhary P.; Tripathi V.M.; Gautam R.K.S.; Singh M.K.; Dwivedi D.; Chauhan V.	Finishing Remarks on Sustainable Lead Free Perovskite Materials: Unique Potential of Applications in New Generation Devices	2026	Topics in Applied Physics	157			455	464	10.1007/978-3-032-24873-2_16	https://www.scopus.com/pages/publications/105040099823?origin=resultslist	Scopus
22	Kumar L.; Singh G.; Bhatt R.; Soharab M.; Bhaumik I.; Roy Chowdhury D.; Singh M.; Gautam C.; Jewariya M.	Comprehensive investigation of the THz response of undoped and 0.03 wt% Fe-doped LiNbO3 single crystals using THz-time domain spectroscopy and Lorentz DHO model	2026	Materials Science in Semiconductor Processing	201		110072			10.1016/j.mssp.2025.110072	https://www.scopus.com/pages/publications/105016311521?origin=resultslist	Scopus
23	Jha V.M.	Professor Hetukar Jha's Contribution to the Study of Historical Sociology	2026	India's Social Landscape Contestations, Resistance, and Transformation				202	216	10.4324/9781003678663-15	https://www.scopus.com/pages/publications/105033902882?origin=resultslist	Scopus
24	Kumari N.; Adhikari A.; Bhagat S.; Mishra A.K.; Tiwari A.K.	Benzoxazolone-based FITC-conjugated fluorescent probe for locating in-vivo expression level of translocator protein (TSPO) during lung inflammation	2026	Molecular Diversity	30	1		671	684	10.1007/s11030-025-11192-9	https://www.scopus.com/pages/publications/105003112037?origin=resultslist	Scopus

25	Meena H.; Yadav S.; Singh M.B.; Aslam M.; Kumar D.; Singh P.; Kumari K.	Unraveling the Potential of Reduced Coumarins as Anticoagulating Agents via Targeting Human Coagulation Factor XA: An In Silico Approach	2026	ChemistrySelect	11	12	e07359			10.1002/slct.202507359	https://www.scopus.com/pages/publications/105033458520?origin=resultslist	Scopus
26	Bamania S.; Gupta R.; Manisha	Highly efficient and rapid green synthesis of CdSe quantum dots with precise size control and well-defined optical behavior	2026	EPJ Web of Conferences	356		1013			10.1051/epjconf/202635601013	https://www.scopus.com/pages/publications/105033655544?origin=resultslist	Scopus
27	Singh N.P.; Singh N.R.	Blue-white light emitting CdWO4:Dy3+ phosphor: Effect of synthetic solvents on crystal structure, morphology and photoluminescence characteristics	2026	Applied Physics A: Materials Science and Processing	132	6	560			10.1007/s00339-026-09754-1	https://www.scopus.com/pages/publications/105040541892?origin=resultslist	Scopus
28	Aslam M.; Anadebe V.C.; Singh P.; Ebenso E.E.	Emerging trends of engineered MXene-polymer composite for biomedical applications: A review	2026	Materials Today Chemistry	53		103590			10.1016/j.mtchem.2026.103590	https://www.scopus.com/pages/publications/105034968686?origin=resultslist	Scopus
29	Yadav T.; Sharma R.; Sharma A.K.	Multiscale Modeling and AI Integration	2026	Engineering Materials	Part F1932			61	82	10.1007/978-981-95-8353-9_4	https://www.scopus.com/pages/publications/105039257522?origin=resultslist	Scopus
30	Kumar D.; Dahiya S.; Sharma P.; Ratnesh R.K.; Kumar A.; Subramanian S.; Singh M.K.; Rizwan M.; Panwar A.K.	A novel eco-friendly MoS2/PAM composite based photodegradation of the industrial dye under visible-light irradiation	2026	Micro and Nanostructures	210		208466			10.1016/j.micrna.2025.208466	https://www.scopus.com/pages/publications/105022209911?origin=resultslist	Scopus
31	Ugendar C.M.; Pani A.S.; Rambabu K.; Naina; Singh P.; Sivakumar K.; Rahaman M.; Bahadur I.; Prasad C.	A TD-DFT Exploration and Artocarpus heterophyllus Plant Leaf Extract-Based Decolorization of Methylene Blue	2026	Water, Air, and Soil Pollution	237	3	147			10.1007/s11270-025-08850-x	https://www.scopus.com/pages/publications/105022460573?origin=resultslist	Scopus
32	Kumar M.; Kumar A.; Dabas S.; Negi A.S.; Gupta K.; Kumar P.; Gautam R.K.S.; Tripathi V.M.; Singh M.K.; Sharma S.	Structural evolution and optical tailoring of Mg-doped ZnO: Insights into doping-induced modifications	2026	Scientific Reports	16	1	8919			10.1038/s41598-026-40403-y	https://www.scopus.com/pages/publications/105033516351?origin=resultslist	Scopus
33	Jharwal S.; Vishwakarma M.K.; Gupta A.; Kar M.; Verma V.K.; Kumar A.	Structural disorder induced Griffith phase in antiferromagnetic double perovskite La2CoFeO6 synthesised hydrothermally	2026	Journal of Physics and Chemistry of Solids	208		113092			10.1016/j.jpcs.2025.113092	https://www.scopus.com/pages/publications/105013098213?origin=resultslist	Scopus

34	Raman A.P.S.; Yadav S.; Singh M.B.; Prajapat A.; Jain P.; Singh P.; Kumari K.	EMs functionalized GO in sensing of dinotefuran: Computational, electrochemical and experimental approaches	2026	Journal of Molecular Structure	1352		144487			10.1016/j.molstruc.2025.144487	https://www.scopus.com/pages/publications/105020378457?origin=resultslist	Scopus
35	Jeengar C.; Ahmad T.; Jindal K.; Sharma A.; Chahar Srivastava S.; Tomar M.; Jha P.K.	Investigation of layer-dependent electronic, optical and thermoelectric transport properties of α-In2Se3 based on first principles calculations	2026	Physica B: Condensed Matter	726		418308			10.1016/j.physb.2026.418308	https://www.scopus.com/pages/publications/105028250213?origin=resultslist	Scopus
36	Kumar M.; Dabas S.	Multiferroic and Magnetoelectric Materials: Applications and Emerging Green Technologies	2026	Materials Horizons: From Nature to Nanomaterials	Part F1339			1	160	10.1007/978-981-95-4391-5	https://www.scopus.com/pages/publications/105030554400?origin=resultslist	Scopus
37	Kumar A.; Abdullah A.	Existence, Stability, and Numerical Analysis of a Fractional Tumor–Dystrophin Interaction Model Using the Hermite Wavelet Method	2026	Iranian Journal of Science and Technology - Transactions of Electrical Engineering						10.1007/s40998-026-01088-1	https://www.scopus.com/pages/publications/105036536760?origin=resultslist	Scopus
38	Chauhan V.; Kumar M.; Kumar R.	Preface	2026	Topics in Applied Physics	157			vii	ix		https://www.scopus.com/pages/publications/105040032255?origin=resultslist	Scopus
39	Maurya I.; Sangwan V.; Vishwakarma A.K.; Jayasimhadri M.	Red Light Emitting Eu3+ Doped Bismuth Yttrium Tungstate Phosphor for Solid State Lighting Applications	2026	ChemistrySelect	11	9	e04547			10.1002/slct.202504547	https://www.scopus.com/pages/publications/105031529099?origin=resultslist	Scopus
40	Kalra A.K.; Yadav S.; Johar N.K.; Chaoudhary M.Y.; Azad N.; Gupta M.	Repurposing expired antibiotic gatifloxacin for mild steel protection in sulfuric acid: electrochemical, surface, and quantum chemical studies	2026	Inorganic Chemistry Communications	186		116124			10.1016/j.inoche.2025.116124	https://www.scopus.com/pages/publications/105027477817?origin=resultslist	Scopus
41	Yadav S.; Chaudhary M.Y.; Azad N.; Bansal P.; Gupta M.	A Green and environmentally benign strategy for aluminium corrosion inhibition using a phosphonium-based ionic liquid	2026	Journal of Molecular Liquids	441		129061			10.1016/j.molliq.2025.129061	https://www.scopus.com/pages/publications/105023689906?origin=resultslist	Scopus

42	Raj D.J.V.; Sharma S.; Verma A.; Kumar Y.; Sharma V.K.; Gupta M.	Erbium- and Yttrium-Doped Zinc Sulphide Quantum Dots with Tuneable Optical Properties Required for Optoelectronic Devices	2026	Arabian Journal for Science and Engineering	51	2		2037	2044	10.1007/s13369-025-10120-1	https://www.scopus.com/pages/publications/105001865566?origin=resultslist	Scopus
43	Rai N.; Singh Y.K.; Dwivedi D.K.; Kumar M.; Lohia P.; Bhattarai S.	Exploring the Photovoltaic Performance of FAPbI3 and FASnI3 Perovskite Solar Cells Through Comprehensive Comparative Analysis	2026	Journal of Inorganic and Organometallic Polymers and Materials						10.1007/s10904-026-04314-9	https://www.scopus.com/pages/publications/105036705377?origin=resultslist	Scopus
44	Singh A.; Kumari S.; Lal S.; Radulescu M.	A Game Theory Approach for India to Reach Carbon Neutrality	2026	International Journal of Energy Research	2026	1	8E+06			10.1155/er/7824211	https://www.scopus.com/pages/publications/105039014627?origin=resultslist	Scopus
45	Khan J.; Rani A.; Aslam M.; Tiwari K.; Pant B.N.; Singh P.; Pandey G.	Screening of Medicinal Plants, Herbal Drug Formulation, and Challenges	2026	Advances in Science, Technology and Innovation	Part F1498			35	44	10.1007/978-3-032-15493-4_4	https://www.scopus.com/pages/publications/105031010842?origin=resultslist	Scopus
46	Fakoya T.O.; Ejidike I.P.; Oyekunle J.A.O.; Prajapat A.; Singh P.; Ore O.T.; Durodola S.S.; Adekunle A.S.; Clayton H.S.	DFT calculation, Monte Carlo theory, MD simulations, and an experimental approach for the sequestration of Dichlorodiphenylethanes on a low-cost adsorbent	2026	Results in Chemistry	26		103308			10.1016/j.rechem.2026.103308	https://www.scopus.com/pages/publications/105036067565?origin=resultslist	Scopus
47	Kumari P.; Gunjan>; Goel N.; Bhagat S.	Serendipitous Discovery of a Novel Indole Derivative With Promising Multitarget Inhibitor and Its ADME Properties	2026	ChemistrySelect	11	1	e06597			10.1002/slct.202506597	https://www.scopus.com/pages/publications/105026486958?origin=resultslist	Scopus
48	Bhagat S.; Goel N.; Kumari P.; Kumar P.	Rational synthesis of pyrazolopyrimidines via cyclocondensation of ynones obtained from the Sonogashira reaction	2026	RSC Advances	16	12		11100	11104	10.1039/d5ra08856a	https://www.scopus.com/pages/publications/105031171541?origin=resultslist	Scopus
49	Sharma A.; Tomar M.; Chowdhuri A.	Gas Sensors at the Frontier: Material, Design and System Integration in Emerging Tech Landscapes	2026	Smart Sensors, Measurement and Instrumentation	53			263	304	10.1007/978-3-032-09625-8_12	https://www.scopus.com/pages/publications/105024379796?origin=resultslist	Scopus

50	Jabeen F.; Ubaid M.; Pandey R.; Khan M.S.	Lattice engineering of BaTiO3 ceramics through Ca/Zr co-doping: experimental and first-principles analysis	2026	Applied Physics A: Materials Science and Processing	132	4	305			10.1007/s00339-026-09493-3	https://www.scopus.com/pages/publications/105034386383?origin=resultslist	Scopus
51	Verma A.P.; Singh P.; Rao P.K.; Sonika K.; Gupta P.; Pandey R.; Vinita	Electrocatalytic oxidation of isoniazid at an AHMT-Au nano coordination polymer modified electrode: Mechanistic study and real sample analysis	2026	Electrochimica Acta	569		148847			10.1016/j.electacta.2026.148847	https://www.scopus.com/pages/publications/105036404071?origin=resultslist	Scopus
52	Chitralekha; Gaurav S.; Khanna M.K.; Singh A.P.; Shankar S.	Multifunctional properties of Cobalt Ferrite-Lanthanum Calcium Manganite nanocomposites for Hydroelectric Cell applications	2026	Ceramics International	52	3		2812	2829	10.1016/j.ceramint.2025.11.402	https://www.scopus.com/pages/publications/105029622710?origin=resultslist	Scopus
53	Chandra A.; Singh S.; Mohanty D.; Sharma C.; Shrishti; Mukherjee P.; Mondal N.	Artificial Intelligence and Synthetic Biology for Crop Breeding	2026	Crop Improvement with Artificial Intelligence: Methods and Applications				162	177	10.1002/9781394330485.ch8	https://www.scopus.com/pages/publications/105038510386?origin=resultslist	Scopus
54	Aslam M.; Raman A.P.S.; Sharma U.; Nand B.; Ebenso E.E.; Pandey G.; Singh P.; Kumari K.	Carbon Nanocomposites in Electrochemical Sensing of Pesticides: Trends, Materials, and Applications	2026	Chemistry and Biodiversity	23	2	e02490			10.1002/cbdv.202502490	https://www.scopus.com/pages/publications/105024702804?origin=resultslist	Scopus
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56	Dwivedi A.; Khattar D.; Kumar S.	Exploration of Soliton Solutions and Multi-Solitonic forms for the Extended Estevez-Prada and the Generalized P-Type Equations in (3+1)-Dimensions using the Advanced Mathematical Method	2026	International Journal of Theoretical Physics	65	2	54			10.1007/s10773-026-06259-8	https://www.scopus.com/pages/publications/105029919350?origin=resultslist	Scopus
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59	Dutta D.; Buragohain N.; Khan J.; Rani A.; Chhabra R.; Pandey G.; Nand B.	Advances in Coumarin-Based Drugs: Synthetic Strategies, Pharmacological Significance, and Future Prospects	2026	ChemistrySelect	11	18	e73393			10.1002/slct.73393	https://www.scopus.com/pages/publications/105038784059?origin=resultslist	Scopus
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63	Anupam; Vishwakarma A.K.; Jayasimhadri M.	Unveiling the potential of thermally stable Dy3+doped sodium lanthanum titanate perovskite phosphors for solid state lighting applications	2026	Ceramics International						10.1016/j.ceramint.2026.05.190	https://www.scopus.com/pages/publications/105039216366?origin=resultslist	Scopus
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65	Baitha M.N.; Shankar S.; Kumar S.; Kishor K.; Kim K.	Polarization-Selective and Tunable Metal-Dielectric (Al-Al2O3) Multilayer Negative Index Metamaterial Absorber	2026	Journal of Electronic Materials	55	3		2588	2598	10.1007/s11664-025-12137-6	https://www.scopus.com/pages/publications/105010656892?origin=resultslist	Scopus
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71	Gupta A.; Kumar A.; Kumar A.; Surbhi; Sharma H.; Kumar S.; Srivastava M.P.; Rana D.K.	Effect of Cu doping on ZnO/ZnS composite thin film for visible light photodetection	2025	Journal of Materials Science: Materials in Electronics	36	24	1550			10.1007/s10854-025-15641-x	https://www.scopus.com/pages/publications/105014719470?origin=resultslist	Scopus
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76	Kumawat V.; Aggarwal S.; Singla M.; Bansal S.; Singh R.; Kumar R.; Das P.J.; Mohapatra S.C.	Synthesis of Transition Metal Nanoparticles Immobilized to Graphene (GO and RGO) as an Enhancer of Dissolved Oxygen with Reduced Band-Gap Energy	2025	Journal of Electronic Materials	54	12		10975	10984	10.1007/s11664-025-12486-2	https://www.scopus.com/pages/publications/105019793736?origin=resultslist	Scopus
77	Ritu; Kumar T.; Jahnvi; Kumar K.; Dhanuk K.; Bhargava A.K.; Tyagi S.K.; Sharma M.K.	Score Function Algorithmic Approach in Optimizing Dual Hesitant Fuzzy Multiobjective Transportation Models	2025	Advances in Fuzzy Systems	2025	1	7E+06			10.1155/adfs/6739462	https://www.scopus.com/pages/publications/105013968660?origin=resultslist	Scopus
78	Agrahari H.; Chaubey A.K.; Priyadarshini S.; Rawat K.; Sao A.K.; Singh J.P.; Sharma A.; Tomar M.; Chowdhuri A.	Realization of MoO3 Sensing Layer Based QCM Sensor for Detection of NO2 Gas	2025	Lecture Notes in Electrical Engineering	1370 LNEE			445	453	10.1007/978-3-031-84331-0_46	https://www.scopus.com/pages/publications/105020009114?origin=resultslist	Scopus
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80	Singh D.; Saxena Y.; Sharma G.S.; Mohanty D.; Mondal N.	Exploration of Various Conventional and Contemporary Approaches to Enhance Secondary Metabolites Production in Plants	2025	Plant Secondary Metabolites: Sources and Applications				104	126	10.1201/9781003518358-6	https://www.scopus.com/pages/publications/105017747557?origin=resultslist	Scopus
81	Sharma B.; Gupta R.; Sharma A.; Chowdhuri A.; Tomar M.	Fabrication of droplet based triboelectric nanogenerators (DB-TENGs) using lead free KNN-PVDF nanocomposite	2025	Chemical Physics Impact	10		100813			10.1016/j.chphi.2025.100813	https://www.scopus.com/pages/publications/105013818114?origin=resultslist	Scopus
82	Raman A.P.S.; Mishra V.K.; Yadav S.; Jain P.; Singh P.; Kumari K.	A Mini Review on Electrochemical Nano-biosensors in Detection of Drugs/Pesticides	2025	Indian Journal of Microbiology	65	1	100886	216	234	10.1007/s12088-024-01303-9	https://www.scopus.com/pages/publications/85194545767?origin=resultslist	Scopus

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84	Kumar S.; Lal S.; Arora S.; Kumar P.; Rani S.; Verma A.; Nagar J.K.	High performance of synergistic reinforced natural rubber with kewda fiber (Pandanus odoratissimus) and carbon black: thermal, morphological and statistically optimized mechanical studies	2025	International Journal of Materials Research	116	10		847	863	10.1515/ijmr-2025-0010	https://www.scopus.com/pages/publications/105023291431?origin=resultslist	Scopus
85	Lal K.; Grover A.; Ragshaniya A.; Aslam M.; Singh P.; Kumari K.	Current advancements and future perspectives of 1,2,3-triazoles to target lanosterol 14α-demethylase (CYP51), a cytochrome P450 enzyme: A computational approach	2025	International Journal of Biological Macromolecules	315		144240			10.1016/j.ijbiomac.2025.144240	https://www.scopus.com/pages/publications/105005592566?origin=resultslist	Scopus
86	Choudhary J.S.; Tomar M.; Jha R.; Sharma A.	Optimizing Bi2Te3 Thin Film Thickness for Enhanced Thermal Conductivity and Thermoelectric Performance of a Bi2Te3 Thermoelectric Generator	2025	Journal of Electronic Materials	54	10		8385	8396	10.1007/s11664-025-12220-y	https://www.scopus.com/pages/publications/105012729074?origin=resultslist	Scopus
87	Gupta K.; Kumar M.; Thakur O.P.	Exploring MXene for energy conversion devices	2025	Layered Nanomaterials for Solution-Processed Optoelectronics				22	42	10.1201/9781003509509-2	https://www.scopus.com/pages/publications/85218140397?origin=resultslist	Scopus
88	Choudhary J.S.; Dhariwal N.; Grover K.; Tomar M.; Jha R.; Sharma A.	Enhanced Energy Harvesting with a Flexible PEDOT:PSS-Based Photo-Thermoelectric Generator	2025	ACS Applied Energy Materials	8	1		611	622	10.1021/acsaem.4c02925	https://www.scopus.com/pages/publications/85212548788?origin=resultslist	Scopus
89	Kumar M.; Gupta K.	Concluding Remarks, Future Outlook, and Emerging Ideas on the Sustainable Perovskite Multiferroic Materials	2025	Materials Horizons: From Nature to Nanomaterials	Part F788			305	313	10.1007/978-981-96-7419-0_12	https://www.scopus.com/pages/publications/105014959234?origin=resultslist	Scopus

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91	Dhingra A.; Kumar R.; Thakur O.P.; Pandey R.	Advancements in fabrication, polymorph diversity, heterostructure excitation dynamics, and multifunctional applications of leading 2D-transition metal dichalcogenides	2025	Journal of Industrial and Engineering Chemistry	151			40	74	10.1016/j.jiec.2025.04.011	https://www.scopus.com/pages/publications/105003271254?origin=resultslist	Scopus
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93	Devi P.; Nain H.; Jaiprakash; Kumar V.	A Depth Analysis of Cryptocurrency's Role and Risks in Modern Finance: In Respective of Security Aspects	2025	Proceedings - International Conference on Next Generation Communication and Information Processing, INCIP 2025				243	248	10.1109/INCIP64058.2025.11020348	https://www.scopus.com/pages/publications/105010230038?origin=resultslist	Scopus
94	Soni P.L.; Soni V.	Inorganic Chemistry: Concepts and Main Group of Elements	2025	Inorganic Chemistry: Concepts and Main Group of Elements				1	440	10.1201/9781003618706	https://www.scopus.com/pages/publications/86000679005?origin=resultslist	Scopus
95	Gupta K.; Thakur O.P.; Verma M.; Kumar M.	Unveiling the potential of Cs2AgBiBr6 for energy storage application by the achievement of high specific and quantum capacitance	2025	Inorganic Chemistry Communications	179		114653			10.1016/j.inoche.2025.114653	https://www.scopus.com/pages/publications/105004886968?origin=resultslist	Scopus

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97	Singh A.; Bisht S.; Kumar M.; Kumar S.; Pratap Y.	Dual-Channel SiC-AlGaN/GaN HEMT with a Drain-Connected Field Plate for Improved Breakdown Voltage and Analog/RF Performance	2025	IETE Journal of Research	71	5		1735	1743	10.1080/03772063.2025.2461654	https://www.scopus.com/pages/publications/86000215932?origin=resultslist	Scopus
98	Alka; Gautam S.; Kumari P.; Vishwakarma V.; Singh M.; Singh P.; Jain P.	New Development of Triaminepyrimidine Derived Tridentate Schiff's Base Ligand and Its Mn (II), Co (II), Ni (II), Cu (II) Complexes: Synthesis, Spectral, Molecular Docking, DFT, In Silico ADMET and Biological Screening	2025	Applied Organometallic Chemistry	39	4	e70076			10.1002/aoc.70076	https://www.scopus.com/pages/publications/85219100882?origin=resultslist	Scopus
99	Mishra R.; Agrawal R.K.; Kirar J.S.	Msst-eegnet: multi-scale spatio-temporal feature extraction using inception and temporal pyramid pooling for motor imagery classification	2025	Cognitive Neurodynamics	19	1	150			10.1007/s11571-025-10337-8	https://www.scopus.com/pages/publications/105016830495?origin=resultslist	Scopus
100	Anjali S.; Jain P.; Srivastava U.C.; Shankar S.	Hydroelectric Cell Fabrication Using Transition Metal-Doped SnO2 for Efficient Green Energy Generation	2025	Journal of Electronic Materials	54	12		10949	10959	10.1007/s11664-025-12396-3	https://www.scopus.com/pages/publications/105018478556?origin=resultslist	Scopus
101	Tokoyi V.; Aslam M.; Prajapat A.; Kabane B.; Singh P.; Deenadayalu N.	Synthesis and antibacterial studies of p-anisidinium-based ionic liquids: Experimental, DFT calculations and molecular docking	2025	Journal of Molecular Liquids	435		128107			10.1016/j.molliq.2025.128107	https://www.scopus.com/pages/publications/105010838392?origin=resultslist	Scopus
102	Ritu; Kumar T.; Jahnvi; Kumar K.; Dhiman N.; Sharma M.K.	Novel Pythagorean fuzzy score function to optimize fuzzy transportation models	2025	Results in Engineering	25		104048			10.1016/j.rineng.2025.104048	https://www.scopus.com/pages/publications/85216019770?origin=resultslist	Scopus
103	Dev B.P.; Jindal K.; Tomar M.; Chowdhuri A.; Sharma A.	Gallium Oxide Thin Film Based Deep UV Photodetector	2025	Lecture Notes in Electrical Engineering	1370 LNEE			119	126	10.1007/978-3-031-84331-0_14	https://www.scopus.com/pages/publications/105020022666?origin=resultslist	Scopus
104	Singh S.; Shukla D.; Chandel A.; Kasana R.; Singh L.; Singh A.P.; Kumar S.; Kumar V.; Singh S.P.; Choubey R.K.; Gupta T.K.; Sirohi S.	Enhanced Mechanical Properties of Solar Waste Recycled EVA/MWCNT Nanocomposite Films	2025	Journal of Electronic Materials	54	10		8448	8460	10.1007/s11664-025-12263-1	https://www.scopus.com/pages/publications/105013304685?origin=resultslist	Scopus

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106	Singh S.; Ali M.; Jha V.M.; Willis M.	The Sufi shrine at Dhār in central India: documents for an economic and institutional history	2025	Journal of the Royal Asiatic Society	35	2		415	433	10.1017/S1356186324000312	https://www.scopus.com/pages/publications/105003687305?origin=resultslist	Scopus
107	Dhingra A.; Thakur O.P.; Pandey R.	Dielectric Investigations of Al–doped M–type Strontium Hexaferrite (SrFe11.0Al1.0O19)	2025	Springer Proceedings in Materials	68			237	246	10.1007/978-981-96-5162-7_20	https://www.scopus.com/pages/publications/105014445125?origin=resultslist	Scopus
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109	Choudhary J.S.; Grover K.; Naorem B.D.; Tomar M.; Sharma A.; Jha R.	Development of Antimony Telluride Based Single-Leg Type Array Thermoelectric Energy Generator	2025	Integrated Ferroelectrics	241	07-Sep		665	672	10.1080/10584587.2025.2483647	https://www.scopus.com/pages/publications/105012216344?origin=resultslist	Scopus
110	Rani A.; Aslam M.; Pant B.N.; Singh P.; Pandey G.	Application of Nanomaterials in Biofuel Production from Agricultural Residues	2025	Emerging Materials for Biofuel Developments				225	246	10.1201/9781003668893-14	https://www.scopus.com/pages/publications/105023166548?origin=resultslist	Scopus
111	Pappu; Rastogi S.; Srivastava S.	Eventual positivity, perturbations and delay semigroups	2025	Positivity	29	1	12			10.1007/s11117-024-01105-9	https://www.scopus.com/pages/publications/85212757915?origin=resultslist	Scopus
112	Grover A.; Bhasin N.; Aslam M.; Jaglan S.; Singh P.; Asija S.; Lal K.	Investigations on Antioxidant and Antibacterial Potential of 1,2,3-Triazole-Appended Indole-DHA Chalcone Hybrids: In Vitro and In Silico Studies	2025	ChemistrySelect	10	48	e05287			10.1002/slct.202505287	https://www.scopus.com/pages/publications/105025370406?origin=resultslist	Scopus
113	Kumar V.; Kumar K.; Vishwakarma A.K.; Ratnesh R.K.; Deopa N.; Jain A.	Potential Application of Carbon Nanotube Core as a Nanocontainer	2025	Journal of Electronic Materials	54	11		9591	9597	10.1007/s11664-025-12302-x	https://www.scopus.com/pages/publications/105016217616?origin=resultslist	Scopus
114	Kumar M.; Singh D.V.; Chaudhary V.; Pundir S.K.	Enhancement in power conversion efficiency and interfacial engineering investigations in La2NiMnO6-based PSC device	2025	Materials Today Communications	45		112339			10.1016/j.mtcomm.2025.112339	https://www.scopus.com/pages/publications/105001478208?origin=resultslist	Scopus

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116	Verma A.A.; Dwivedi D.K.; Lohia P.; Singh P.K.; Yadav R.K.; Kumar M.; Agarwal S.; Kulshrestha U.	Achieving 31.16 % efficiency in perovskite solar cells via synergistic Dion-Jacobson 2D-3D layer design	2025	Journal of Alloys and Compounds	1010		177882			10.1016/j.jallcom.2024.177882	https://www.scopus.com/pages/publications/85210706266?origin=resultslist	Scopus
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134	Singh M.K.; Ravi A.; Gautam R.K.; Gautam R.K.S.; Nautiyal H.; Kumar M.; Kumar V.; Ji G.	Development of Self-Lubricating Copper Metal Matrix Hybrid Composites Using Microwave Sintering and Its Characterizations	2025	Springer Proceedings in Materials	68			275	288	10.1007/978-981-96-5162-7_23	https://www.scopus.com/pages/publications/105014358412?origin=resultslist	Scopus
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146	Aslam M.; Raman A.P.S.; Rana I.; Singh M.B.; Ranjan K.R.; Verma C.; AlFantazi A.; Singh P.; Kumari K.	Coordination and organometallic compounds of graphyne and graphdiyne: Synthesis, properties and applications	2025	Coordination Chemistry Reviews	543		216890			10.1016/j.ccr.2025.216890	https://www.scopus.com/pages/publications/105009505298?origin=resultslist	Scopus

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152	Hazarika N.	Anthologizing India's Northeast: A Study of Ethnic Identity and Violence in the Region	2025	Violence and Postcolonial Marginalities in South Asian Literature				123	143		https://www.scopus.com/pages/publications/105025858612?origin=resultslist	Scopus
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161	Gasa B.; Yadav S.; Prajapat A.; Singh P.; Kabane B.; Deenadayalu N.; Bahadur I.	Molecular dynamic insight into imidazolium based deep eutectic solvent comprising carboxylic acids (C2 and C3): Experiments and DFT approach	2025	Journal of Molecular Liquids	424		127134			10.1016/j.molliq.2025.127134	https://www.scopus.com/pages/publications/85217822037?origin=resultslist	Scopus

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171	Vidhi; Masih A.; Singh A.K.; Thakur O.P.	Synthesis and Characterization of rGO-Modified LaFeO3/MnO2 Ternary Composite for Supercapacitor Applications	2025	Journal of Electronic Materials	54	11		9556	9570	10.1007/s11664-025-12323-6	https://www.scopus.com/pages/publications/105014754404?origin=resultslist	Scopus
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181	Keertika K.; Bhagat S.; Sharma N.	Ultrasound-promoted, catalyst-free, greener synthesis of pyrazoles in aqueous medium	2025	Journal of Sulfur Chemistry	46	6		1161	1171	10.1080/17415993.2025.2567698	https://www.scopus.com/pages/publications/105018839737?origin=resultslist	Scopus
182	Verma D.; Bora S.; Burdak P.; Maibam K.; Choudhary J.S.; Verma M.; Tomar M.; Sharma A.	Development of Thermoelectric Energy Harvester Using AZO Semiconductor Thin Films	2025	Lecture Notes in Electrical Engineering	1370 LNEE			785	793	10.1007/978-3-031-84331-0_80	https://www.scopus.com/pages/publications/105020008700?origin=resultslist	Scopus
183	Kumar S.; Lal S.; Arora S.; Kumar P.; Rani S.; Verma A.; Kumari A.	Influence of carbon black and cotton fiber on the mechanical and thermal properties of natural rubber composites: a statistical optimization using Central composite design	2025	International Journal of Polymer Analysis and Characterization	30	5		563	580	10.1080/1023666X.2025.2495283	https://www.scopus.com/pages/publications/105004463271?origin=resultslist	Scopus
184	Grover A.; Kumar A.; Kumari P.; Jaglan S.; Yadav S.; Singh P.; Om H.; Lal K.	DHA-indole-triazole hybrids: Click mediated synthesis, antimicrobial, antibiofilm and In Silico studies	2025	Journal of Molecular Structure	1335		141953			10.1016/j.molstruc.2025.141953	https://www.scopus.com/pages/publications/86000456379?origin=resultslist	Scopus

185	Kumar P.; Agrawal N.; Paliwal G.; Banerjee K.; Gupta M.; Kumar Y.	Effect of ethylene glycol on deep eutectic solvent properties: dual functionality of zinc chloride as hydrogen bond acceptor and salt	2025	Results in Chemistry	17		102570			10.1016/j.rechem.2025.102570	https://www.scopus.com/pages/publications/105012042318?origin=resultslist	Scopus
186	Rani A.; Aslam M.; Khan J.; Pandey G.; Kumari K.; Nand B.	Exploration of the Dual Action of Pyranopyrazoles as Anti-Alzheimer Agents and Dopamine D2 Receptor Antagonist Through Molecular Docking, ADMET, DFT Calculations, and MD Simulations	2025	ChemistrySelect	10	22	e05917			10.1002/slct.202405917	https://www.scopus.com/pages/publications/105007905846?origin=resultslist	Scopus
187	Vidhi; Sadiq M.; Singh A.K.; Thakur O.P.	Fabrication and electrochemical insights into advanced rGO-modified ternary Cu-doped NiFe2O4/TiO_2 electrodes for high performance supercapacitors	2025	Ceramics International	51	5		5679	5694	10.1016/j.ceramint.2024.12.016	https://www.scopus.com/pages/publications/85211021330?origin=resultslist	Scopus
188	Singh R.; Aslam M.; Singh M.B.; Raman A.P.S.; Prajapat A.; Yadav S.; Singh P.; Pandey G.; Kumari K.	Experimental and Computational Insights Into Lanthanum Nitrate Adsorption and Electrochemical Detection Using Graphene Oxide	2025	ChemistrySelect	10	47	e04273			10.1002/slct.202504273	https://www.scopus.com/pages/publications/105024862215?origin=resultslist	Scopus
189	Kumar T.; Kumar K.; Dhanuk K.; Bhargava A.K.; Sharma M.K.	Firefly algorithm driven intelligent system for multi-objective multimodal transportation optimization	2025	Systems and Soft Computing	7		200424			10.1016/j.sasc.2025.200424	https://www.scopus.com/pages/publications/105023958350?origin=resultslist	Scopus
190	Sharma N.; Kumar A.; Verma V.P.; Singh M.B.; Singh P.; Shrivastava R.	Design and synthesis of coumarin-based pyrazole–pyrazoline hybrid derivatives and their photophysical, antimicrobial, sensing and computational studies	2025	RSC Advances	15	56		48529	48543	10.1039/d5ra06322a	https://www.scopus.com/pages/publications/105024352191?origin=resultslist	Scopus
191	Rani A.; Aslam M.; Khan J.; Singh V.; Pandey G.; Nand B.	In Silico Exploration of Xanthene Aminochloroquinoline Derivatives as Promising Dopamine D2 Receptor Antagonists: ADME, Molecular Docking, DFT Calculations, and MD Simulations	2025	ChemistrySelect	10	40	e03297			10.1002/slct.202503297	https://www.scopus.com/pages/publications/105019806444?origin=resultslist	Scopus

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193	Bhukal A.; Kumar V.; Raman A.P.S.; Kumar A.; Singh P.; Lal K.	Pyrazoline Spiro-oxindole tethered 1,2,3-triazole hybrids: Design, synthesis, antimicrobial efficacy and molecular modelling studies	2025	Molecular Diversity	29	2	135808	1479	1492	10.1007/s11030-024-10928-3	https://www.scopus.com/pages/publications/85199588813?origin=resultslist	Scopus
194	Gupta K.; Kumar M.; Singh D.V.; Chaudhary V.; Srivastva A.N.; Thakur O.P.; Dwivedi D.K.; Siqueiros J.M.; Herrera O.R.; Sharma S.	Latest Updates and Future Perspective on Hybrid Halide Perovskite CH3NH3PbI3 in Humidity Sensing and Energy Conversion Applications	2025	ECS Journal of Solid State Science and Technology	14	3	37002			10.1149/2162-8777/adb98e	https://www.scopus.com/pages/publications/105000060539?origin=resultslist	Scopus
195	Kumar L.; Singh G.; Bhatt R.; Kumar M.; Soharab M.; Bhaumik I.; Chouksey A.; Gautam C.; Jewariya M.	Effect of 0.015 mol % cobalt (Co) doping on the broadband terahertz optical properties of congruent LiNbO3 single crystal	2025	Infrared Physics and Technology	147		105823			10.1016/j.infrared.2025.105823	https://www.scopus.com/pages/publications/105000861892?origin=resultslist	Scopus
196	Singh A.; Kumari S.; Lal S.; Radulescu M.	CCUS technology or renewable energy for India's net zero carbon emission mission? Fuzzy analytical hierarchy process	2025	Energy Reports	14			332	342	10.1016/j.egyr.2025.06.015	https://www.scopus.com/pages/publications/105008586239?origin=resultslist	Scopus
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198	Gupta K.; Kumar M.; Raj A.; Verma M.; Sharma S.; Singh M.K.; Thakur O.P.	Potential Applications of Spinel Nano-Ferrites in Humidity Sensors	2025	Springer Proceedings in Materials	69			105	121	10.1007/978-981-96-5166-5_7	https://www.scopus.com/pages/publications/105013341480?origin=resultslist	Scopus
199	Raj A.; Kumar M.; Singh D.V.; Singh B.; Dwivedi D.K.; Anshul A.	Physical parameter optimization and band alignment approach for efficiency improvement in Cs2AgBiBr6 based lead-free perovskite solar cells	2025	Scientific Reports	15	1	32868			10.1038/s41598-025-02203-8	https://www.scopus.com/pages/publications/105017184842?origin=resultslist	Scopus

200	Sharma S.; Mahadevan S.; Pandey K.; Singh P.; Chauhan S.; Kumar M.; Siqueiros J.M.; Herrera O.R.	Phase transition driven enhancements of multiferroic properties in doped BiFeO3: A comprehensive review	2025	Materials Science in Semiconductor Processing	195		109613			10.1016/j.mssp.2025.109613	https://www.scopus.com/pages/publications/105004261213?origin=resultslist	Scopus
201	Ravinshu; Pandey R.; Thakur O.P.	Probing battery-like behavior, resistive switching, and optical properties of low-temperature sintered lead-free KxNa(1−x)NbO3 ceramics	2025	Inorganic Chemistry Communications	174		113924			10.1016/j.inoche.2025.113924	https://www.scopus.com/pages/publications/85214678001?origin=resultslist	Scopus
202	Thapliyal A.; Singh M.B.; Kumari K.; Dey S.K.; Maurya S.K.	Identification of novel inhibitors of microglia-specific proteins responsible for neuroinflammatory response by molecular docking and simulation studies	2025	International Journal of Modelling and Simulation						10.1080/02286203.2025.2484300	https://www.scopus.com/pages/publications/105002085182?origin=resultslist	Scopus
203	Saini G.; Singh A.; Tomar A.; Mishra S.; Singh R.	Synthesis, characterization and photocatalytic degradation of textile dyes using ZnO, CuO and ZnO–CuO nanocomposites	2025	Nano Express	6	4	45007			10.1088/2632-959X/ae1853	https://www.scopus.com/pages/publications/105020910656?origin=resultslist	Scopus
204	Pratibha K.; Shankar S.; Choubey R.K.; Gaurav S.; Dwivedi Y.; Kumar S.; Kumar V.; Kumawat V.	Optimizing annealing temperature for dysprosium-doped zinc silicate nanophosphors: unveiling structural advancements and luminescent characteristics for high-performance LED technology	2025	Discover Materials	5	1	214			10.1007/s43939-025-00287-7	https://www.scopus.com/pages/publications/105019536966?origin=resultslist	Scopus
205	Aquib M.; Al-Dayel I.; Iqbal M.; Khan M.A.	Correction: Geometric inequalities and equality conditions for slant submersions in Kenmotsu space forms	2025	AIMS Mathematics	10	7		16744	16745	10.3934/math.2025751	https://www.scopus.com/pages/publications/105012371112?origin=resultslist	Scopus
206	Jha G.K.	Foreword	2025	Springer Proceedings in Materials	68			v	vi		https://www.scopus.com/pages/publications/105014393109?origin=resultslist	Scopus
207	Yadav A.K.; Pandey R.; Singh P.	Impedance spectroscopy in perovskite materials: From fundamentals to applications	2025	Inorganic Chemistry Communications	182		115524			10.1016/j.inoche.2025.115524	https://www.scopus.com/pages/publications/105016860331?origin=resultslist	Scopus

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209	Sahu M.K.; Sangwan V.; Lohan R.; Malik I.; Deopa N.; Maheshwari K.; Vishwakarma A.K.; Prashant D.V.	Synthesis and Optical Properties of Red Emitting Thermally Stable Sm3+-Induced Al2O3-Na2O-ZnO-B2O3-WO3 Glass for Agricultural LEDs	2025	Journal of Electronic Materials	54	12		10880	10891	10.1007/s11664-025-12401-9	https://www.scopus.com/pages/publications/105017555210?origin=resultslist	Scopus
210	Ray M.	Haunted Time in Amitav Ghosh's Gun Island	2025	RE-TEMPORALISING THE CULTURAL IN INDIA				22	40	10.5040/9789356404090.ch-002	https://www.scopus.com/pages/publications/105027821928?origin=resultslist	Scopus
211	Singh R.; Gautam M.; Atrey S.	Applications of Perovskite Multiferroic Materials in Surface Acoustic Wave Devices	2025	Materials Horizons: From Nature to Nanomaterials	Part F788			253	273	10.1007/978-981-96-7419-0_10	https://www.scopus.com/pages/publications/105014949198?origin=resultslist	Scopus
212	Singh M.B.; Aslam M.; Jain P.; Singh P.; Kumari K.	An insight for the interaction of EMs of aspirin with GO through multi-facet techniques	2025	Journal of Molecular Liquids	437		128490			10.1016/j.molliq.2025.128490	https://www.scopus.com/pages/publications/105015981222?origin=resultslist	Scopus
213	Yadav P.; Vetrivel V.	Regret bounds for online interval-valued convex optimization	2025	International Journal of Computer Mathematics						10.1080/00207160.2025.2593928	https://www.scopus.com/pages/publications/105024704513?origin=resultslist	Scopus
214	Sharma B.; Gupta R.; Sharma A.; Chowdhuri A.; Tomar M.	Power in motion: KNN-PDMS self-biased flexible piezoelectric nanogenerators	2025	Materials Today Communications	44		112140			10.1016/j.mtcomm.2025.112140	https://www.scopus.com/pages/publications/86000320745?origin=resultslist	Scopus
215	Sehrawat S.; Sharma R.; Sharma D.; Pani B.; Jain P.; Sarkar A.; Sharma A.K.	The responsive behavior of hydrogels for wastewater treatment and their advancement in removal of water pollutants	2025	Catalysis Science and Technology	15	24		7263	7294	10.1039/d5cy00856e	https://www.scopus.com/pages/publications/105024531929?origin=resultslist	Scopus

216	Raman A.P.S.; Singh P.; Jain P.; Kumari K.; Kabane B.; Bahadur I.	Society Strategies in Infectious Diseases	2025	Sustainable Nanomaterials for Treatment and Diagnosis of Infectious Diseases				139	154	10.1002/9781394200559.ch6	https://www.scopus.com/pages/publications/85218009132?origin=resultslist	Scopus
217	Rani A.; Aslam M.; Khan J.; Singh V.; Nand B.; Pandey G.	In Silico Exploration of Hydroxytetrahydroxanthes as Promising Antipsychotic Candidates: A Molecular Docking, Molecular Simulation, DFT, and ADMET Study	2025	ChemistrySelect	10	38	e03516			10.1002/slct.202503516	https://www.scopus.com/pages/publications/105018527224?origin=resultslist	Scopus
218	Raman A.P.S.; Aslam M.; Awasthi A.; Ansari A.; Jain P.; Lal K.; Bahadur I.; Singh P.; Kumari K.	An updated review on 1,2,3-/1,2,4-triazoles: synthesis and diverse range of biological potential	2025	Molecular Diversity	29	1		899	964	10.1007/s11030-024-10858-0	https://www.scopus.com/pages/publications/85200035406?origin=resultslist	Scopus
219	Jha G.K.	Foreword	2025	Springer Proceedings in Materials	69			ix	x		https://www.scopus.com/pages/publications/105013301952?origin=resultslist	Scopus
220	Chaudhary V.; Sable H.; Kumar M.; Prakash C.; Sonu S.	Dynamic landscape of chemiresistive breathomic nanosensors based on fifth-generation chips for complex disease diagnosis and healthcare monitoring	2025	Applied Physics Reviews	12	4	41311			10.1063/5.0255483	https://www.scopus.com/pages/publications/105020911608?origin=resultslist	Scopus
221	Dhingra A.; Kumar R.; Thakur O.P.; Pandey R.	Advancements in hexaferrite composite materials for electromagnetic interference shielding solutions	2025	Sustainable Materials and Technologies	44		e01333			10.1016/j.susmat.2025.e01333	https://www.scopus.com/pages/publications/105000052049?origin=resultslist	Scopus
222	Patwa R.; Rohilla S.; Jyoti saini; Goel N.	Structural and spectroscopy analysis of nanocomposites of metal oxide ZnO/CuO/Ag by coprecipitation: Potential application in photocatalysis	2025	Ceramics International	51	11		14047	14059	10.1016/j.ceramint.2025.01.242	https://www.scopus.com/pages/publications/105002486051?origin=resultslist	Scopus
223	Jharwal S.; Gupta A.; Vishwakarma M.K.; Verma V.K.; Kumar A.	Facile Synthesis of Double Perovskite La2CoFeO6 by Glycine-Nitrate Combustion Method	2025	Springer Proceedings in Materials	69			1	10	10.1007/978-981-96-5166-5_1	https://www.scopus.com/pages/publications/105013318020?origin=resultslist	Scopus

224	Garg S.; Sharma A.; Jindal K.; Chowdhuri A.; Tomar M.	Thickness-Dependent Photocatalytic Activity of RF Magnetron Sputtered SnSe Thin Films for Methylene Blue Degradation	2025	Journal of Electronic Materials	54	12		10927	10935	10.1007/s11664-025-12418-0	https://www.scopus.com/pages/publications/105018229473?origin=resultslist	Scopus
225	Gupta K.; Kumar M.; Thakur O.P.	Electrochemical investigations of LaMnO3/NiCo2O4 nanocomposites for supercapattery	2025	Journal of Alloys and Compounds	1029		180716			10.1016/j.jallcom.2025.180716	https://www.scopus.com/pages/publications/105004396534?origin=resultslist	Scopus
226	Yaduvanshi N.; Singh S.P.; Gaurav S.; Shankar S.; Chandel V.S.	Thermoelectric Properties of Al–ZnO Oxide Thin Film	2025	Macromolecular Symposia	414	2	2E+06			10.1002/masy.202400130	https://www.scopus.com/pages/publications/105003092589?origin=resultslist	Scopus
227	Meena H.; Varshney D.; Kumar A.; Raghav P.S.; Kumar S.; Prakash J.; Chauhan S.; Nidhi; Singh G.	Enhanced Memory Effect in SmA Phase of CdS Quantum Dots Dispersed 4-Cyano-4′-Octylbiphenyl (8CB) Liquid Crystal Composite	2025	Springer Proceedings in Physics	320 SPPHY			131	140	10.1007/978-981-96-9989-6_13	https://www.scopus.com/pages/publications/105023500314?origin=resultslist	Scopus
228	Kumar M.; Gupta K.; Raj A.; Sharma S.; Kumar A.; Kumar M.; Thakur O.P.; Anshul A.	Synthesis, Characterization and Applications of Multiferroic Bismuth Ferrite Based Nanostructures	2025	Springer Proceedings in Materials	68			1	19	10.1007/978-981-96-5162-7_1	https://www.scopus.com/pages/publications/105014478544?origin=resultslist	Scopus
229	Kumar M.; Singh A.K.; Sharma S.; Kumar D.	Preface	2025	Springer Proceedings in Materials	69			xi	xii		https://www.scopus.com/pages/publications/105013290445?origin=resultslist	Scopus
230	Gupta K.; Kumar M.; Verma M.; Thakur O.P.	Investigations on Gas Sensing and Energy Storage Applications of NiCo2O4	2025	ECS Sensors Plus	4	2	23601			10.1149/2754-2726/add8a1	https://www.scopus.com/pages/publications/105016358157?origin=resultslist	Scopus
231	Kumar L.; Singh G.; Bhatt R.; Chowdhury D.R.; Soharab M.; Bhaumik I.; Gautam C.; Jewariya M.	The effect of 1.5 mol % Zn substitution on the broadband THz optical parameters of stoichiometric LiNbO3 single crystal	2025	Journal of Molecular Structure	1339		142365			10.1016/j.molstruc.2025.142365	https://www.scopus.com/pages/publications/105002648799?origin=resultslist	Scopus
232	Singh M.B.; Narang G.; Singh P.	A Comparative Study of Graphynes for Sensing of Gasses (SO2 & Acetylene) Using DFT Calculations and MD Simulations	2025	Indian Journal of Microbiology	65	1		359	374	10.1007/s12088-024-01289-4	https://www.scopus.com/pages/publications/85193691434?origin=resultslist	Scopus
233	Chaudhary M.Y.; Gupta M.; Sharma Y.S.; Bansal P.; Kaushik S.; Kanojia R.; Gautam M.K.; Yadav S.	Benzyl triphenyl phosphonium bromide as a corrosion inhibitor: A multifaceted study on aluminium protection in acidic environment	2025	Journal of Ionic Liquids	5	1	100152			10.1016/j.jil.2025.100152	https://www.scopus.com/pages/publications/105003816022?origin=resultslist	Scopus

234	Aslam M.; Rani A.; Prajapat A.; Hitesh; Khan J.; Nand B.; Pandey G.; Verma C.; AlFantazi A.; Singh P.	A comprehensive review on pyrazole derivatives as corrosion inhibitors: Ligand properties, coordination bonding, and interfacial adsorption	2025	Coordination Chemistry Reviews	538		216714			10.1016/j.ccr.2025.216714	https://www.scopus.com/pages/publications/105002791902?origin=resultslist	Scopus
235	Prajapat A.; Naina N.; Massey I.; Singh P.; Pandey G.; Ranjan K.R.; Kumari K.	Green Deep Eutectic Solvents in Genomics/Fundamentals of Nucleic Acids	2025	Green Deep Eutectic Solvents: Fundamentals and Applications in Green Chemistry.				227	251	10.1002/9781394272143.ch11	https://www.scopus.com/pages/publications/105023745430?origin=resultslist	Scopus
236	Jain P.; Shankar S.; Thakur O.P.	Synergistic effects on the structural, vibrational, and electrical studies of Co1−xMnxGd0.10Fe1.90O4 spinel ferrites: Insights for high-frequency device functionality	2025	Emergent Materials	8	6		5153	5176	10.1007/s42247-025-01061-4	https://www.scopus.com/pages/publications/105002218422?origin=resultslist	Scopus
237	Aslam M.; Yadav S.; Singh M.B.; Tomar N.; Nand B.; Kumari K.; Pandey G.; Chandra R.; Singh S.; Singh P.	An insight for the sensing ability of graphene oxide for pymetrozine through electrochemical studies, in silico studies, and experimental approaches	2025	Journal of the Indian Chemical Society	102	7	101779			10.1016/j.jics.2025.101779	https://www.scopus.com/pages/publications/105005852548?origin=resultslist	Scopus
238	Chaudhary R.; Singh Rao V.; Rao A.; Yadav M.; Mishra N.; Kumar S.; Gulati S.; Chandra A.; Arora R.; Yadav A.; Bajar S.; Yadav N.	Zinc Oxide/Multiwalled Carbon Nanotubes Composites Modified with Bowstring Hemp for Enhanced Supercapacitive Performance	2025	ChemistrySelect	10	41	e03559			10.1002/slct.202503559	https://www.scopus.com/pages/publications/105020471933?origin=resultslist	Scopus
239	Kumar V.; Sharma H.; Yadav M.K.; Kumar S.; Rana D.K.; Singh V.N.; Surbhi	Synthesis of Copper-Coated CuS Core–Shell Nanoparticles by CBD for Rhodamine Blue Dye Degradation	2025	Journal of Electronic Materials	54	1		499	509	10.1007/s11664-024-11573-0	https://www.scopus.com/pages/publications/85208991548?origin=resultslist	Scopus
240	Gupta K.; Kumar M.; Thakur O.P.	Processing and application of MXene in energy storage devices	2025	Layered Nanomaterials for Solution-Processed Optoelectronics				1	21	10.1201/9781003509509-1	https://www.scopus.com/pages/publications/85218132447?origin=resultslist	Scopus

241	Kumar M.; Yadav S.; Behera P.K.	Analyzing the position and stability of the Lagrangian points under the gravitational effect of the Sun, Moon and the Earth including its oblateness	2025	Astronomy and Computing	52		100966			10.1016/j.ascom.2025.100966	https://www.scopus.com/pages/publications/105003954176?origin=resultslist	Scopus
242	Aslam M.; Rani A.; Singh R.; Nand B.; Verma C.; AlFantazi A.; Pandey G.; Singh P.	Harnessing deep eutectic solvents for advanced corrosion protection: A review	2025	Journal of Molecular Liquids	422		126919			10.1016/j.molliq.2025.126919	https://www.scopus.com/pages/publications/85215361189?origin=resultslist	Scopus
243	Dabas S.; Kumar M.; Singh D.V.; Chaudhary V.; Sharma S.	Progress in Multiferroic and Magnetoelectric Materials for Emerging Technologies in Next Generation Sensing Devices	2025	Journal of the Electrochemical Society	172	2	27512			10.1149/1945-7111/adb4a8	https://www.scopus.com/pages/publications/85218979107?origin=resultslist	Scopus
244	Thabet M.G.; Aslam M.; Singh P.; Bondle G.M.	Silica-supported Bi2O3[sbnd]Cr2O3 nanocomposite: Efficient catalyst for Pyrano[3,2-c]chromenes synthesis and DFT studies	2025	Journal of Molecular Structure	1319		139624			10.1016/j.molstruc.2024.139624	https://www.scopus.com/pages/publications/85201459557?origin=resultslist	Scopus
245	Parasar A.; Rawat K.; Vishwakarma A.K.; Kumar S.; Kumar S.; Jha K.	Tm3+-Doped Ca2Ga2SiO7 Phosphor as Blue-Emitting Candidate for Tricolor w-LED Application	2025	Journal of Electronic Materials	54	11		9598	9605	10.1007/s11664-025-12373-w	https://www.scopus.com/pages/publications/105016132653?origin=resultslist	Scopus
246	P P.; Fisch M.R.; Meena H.; Tomar S.; Gathania A.K.; Kumar S.; Prakash J.; Supreet; Kumar S.; Singh G.	Effect of doping with carbon dots on the alignment and dielectric properties of nematic liquid crystal 4-cyano-4′-pentylbiphenyl in ITO sample cells without conventional alignment layers for low-cost display applications	2025	Journal of Molecular Structure	1321		139894			10.1016/j.molstruc.2024.139894	https://www.scopus.com/pages/publications/85203163914?origin=resultslist	Scopus
247	Kumar R.; Sahoo S.; Elfiky M.; Pandey R.; Yadav R.M.; Tan W.K.; Kawamura G.; Matsuda A.; Youssry S.M.	Microwave irradiation-induced palladium nanoparticle-mediated perforation and decoration of reduced graphene oxide nanosheets composite for electrode in supercapacitors	2025	Diamond and Related Materials	152		111924			10.1016/j.diamond.2024.111924	https://www.scopus.com/pages/publications/85213889555?origin=resultslist	Scopus
248	Varshney A.; Chauhan S.; Kumar M.; Herrera O.R.; Sharma S.	Room-Temperature Perovskite Multiferroic Material Bismuth Ferrite (BiFeO3): A Highly Investigated Material Among Various Perovskite Multiferroic Materials	2025	Materials Horizons: From Nature to Nanomaterials	Part F788			85	125	10.1007/978-981-96-7419-0_4	https://www.scopus.com/pages/publications/105014983973?origin=resultslist	Scopus

249	Singh M.K.; Dwivedi S.; Verma S.; Gautam R.K.; Kumar H.; Ji G.; Kumar V.; Shankar U.; Kumar M.	Synthesis and Characterizations of Copper-Based Composite Using Powder Metallurgy Under Variable Compaction Loads	2025	Springer Proceedings in Materials	68			61	74	10.1007/978-981-96-5162-7_5	https://www.scopus.com/pages/publications/105014371071?origin=resultslist	Scopus
250	Massey I.; Yadav S.; Kumar D.; Maharia R.S.; Kumari K.; Singh P.	An insight for the inhibition of anxiolytic and anti-convulsant effects in zebrafish using the curcumins via exploring molecular docking and molecular dynamics simulations	2025	Molecular Diversity	29	1	107881	439	455	10.1007/s11030-024-10865-1	https://www.scopus.com/pages/publications/85193242685?origin=resultslist	Scopus
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252	Masih A.; Vidhi; Singh A.K.; Thakur O.P.	Ultrasonically Engineered MnO2@MXene Composite Electrode for Enhanced Supercapacitor Performance	2025	Journal of Electronic Materials	54	10		8418	8430	10.1007/s11664-025-12236-4	https://www.scopus.com/pages/publications/105013165438?origin=resultslist	Scopus
253	Srivastva A.N.; Milan K.; Singh N.P.; Singh D.V.; Kumar M.; Chaudhary V.; Dabas S.	Electrochemical Biosensors Designed with Coordination Compounds: Recent Advancements and Future Perspectives	2025	ECS Sensors Plus	4	1	11601			10.1149/2754-2726/ada394	https://www.scopus.com/pages/publications/85215706861?origin=resultslist	Scopus
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256	Raman A.P.S.; Yadav S.; Singh R.; Kaushik N.K.; Kaushik N.; Jain P.; Singh P.; Kumari K.	GO modified with amino-acid based EMs to sense noscapine using experimental and computational approaches	2025	Microchemical Journal	212		113103			10.1016/j.microc.2025.113103	https://www.scopus.com/pages/publications/85219149199?origin=resultslist	Scopus
257	Kumari S.; Surbhi; Gupta A.; Kumar S.; Sharma H.; Verma A.; Rana D.K.	Room Temperature Chemical Bath Synthesis of ZnS/CuS Composite Thin Film Photodetector	2025	Springer Proceedings in Materials	69			139	148	10.1007/978-981-96-5166-5_9	https://www.scopus.com/pages/publications/105013196295?origin=resultslist	Scopus

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264	Kumari S.; Singh A.; Lal S.; Radulescu M.	Is geothermal and biomass energy a better alternative for seven renewable energy courteous countries: Evidence from Fourier ARDL, Fourier Bootstrap Toda-Yamamoto and wavelet coherence	2025	Environmental Progress and Sustainable Energy	44	6	e70090			10.1002/ep.70090	https://www.scopus.com/pages/publications/105015678714?origin=resultslist	Scopus
265	Yadav S.; Dhawan M.; Kumar V.; Dalal J.; Pandey R.; Sehrawat N.; Dhankhar R.; Sagwan A.; Chhikara S.K.	Facile synthesis of geopolymer composites for effectual removal of Cr(VI) and Cd(II) ions from aqueous solutions	2025	Discover Materials	5	1	79			10.1007/s43939-025-00258-y	https://www.scopus.com/pages/publications/105003868621?origin=resultslist	Scopus

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267	Kumar A.; Gupta A.; Surbhi; Kumar S.; Srivastava M.P.; Kumar D.	Optoelectronic and Structural Properties of Chalcogenide WS2/MoS2 Composite Thin Films	2025	Springer Proceedings in Materials	68			143	156	10.1007/978-981-96-5162-7_12	https://www.scopus.com/pages/publications/105014466486?origin=resultslist	Scopus
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271	Saini K.; Sharma R.; Sharma A.K.; Pani B.; Sarkar A.	An exploration of tailoring of hetero-nanostructures of α-MoO3 for efficient electrocatalytic and photocatalytic applications	2025	Catalysis Today	445		115092			10.1016/j.cattod.2024.115092	https://www.scopus.com/pages/publications/85207007980?origin=resultslist	Scopus
272	Rani A.; Khan J.; Aslam M.; Ali A.; Kamthan M.; Pandey G.; Nand B.	Design, synthesis, and biological evaluation of Schiff-Base Isoxazole hybrids: Exploring novel antimicrobial agents	2025	Bioorganic Chemistry	159		108428			10.1016/j.bioorg.2025.108428	https://www.scopus.com/pages/publications/105001584375?origin=resultslist	Scopus
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276	Dhingra A.; Thakur O.P.; Pandey R.	Polyol-mediated synthesis of strontium hexaferrite nanoparticles and their potential application for resistive switching and non-volatile memory storage devices	2025	Emergent Materials	8	4		3403	3422	10.1007/s42247-025-00996-y	https://www.scopus.com/pages/publications/85217535164?origin=resultslist	Scopus
277	Chaudhary A.; Teotia S.; Kumar C.; Singh A.P.; Kumari S.; Dhakate S.R.	Sustainability assessment of Nickle nanoparticles using green chemistry approach for flexible and lightweight electromagnetic interference shielding applications	2025	Diamond and Related Materials	154		112244			10.1016/j.diamond.2025.112244	https://www.scopus.com/pages/publications/105001101770?origin=resultslist	Scopus
278	Gulati S.; Pandey S.K.; Tamanna; Mishra N.; Preeti; Kumar S.	Organometallic-inspired green catalysts: Biogenic synthesis of metal-decorated multi-walled carbon nanotubes for efficient dye remediation	2025	Journal of Organometallic Chemistry	1041		123836			10.1016/j.jorganchem.2025.123836	https://www.scopus.com/pages/publications/105014930088?origin=resultslist	Scopus
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281	Dabas S.; Kumar M.; Veer Singh D.; Kumar P.	Cutting-edge technologies and recent modernization on multifunctional perovskite materials for green energy conversion and spintronic applications	2024	Materials Letters	377		137389			10.1016/j.matlet.2024.137389	https://www.scopus.com/pages/publications/85203877573?origin=resultslist	Scopus
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283	Kubba R.; Jyoti; Yadav O.; Kumar A.	Phosphorus corroles: Synthesis and applications	2024	Journal of Molecular Structure	1301		137364			10.1016/j.molstruc.2023.137364	https://www.scopus.com/pages/publications/85181404371?origin=resultslist	Scopus

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285	Thongam V.; Tarique H.; Radheshyam; Pandey R.	Preparation and Structural Investigation of Olivine Structured LiFePO4	2024	Springer Proceedings in Materials	37			245	255	10.1007/978-981-99-6766-7_22	https://www.scopus.com/pages/publications/85178876471?origin=resultslist	Scopus
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291	Jha P.K.; Srivastava A.; Bihari N.; Sharma A.K.; Kumar M.; Chourasia N.K.; Chourasia R.K.	Comparative Performance Analysis of P-Si/n-CdS/ITO Heterojunction Solar Cell by Inserting Cu2O as a Back Surface Layer Using SCAPS-1D	2024	Advanced Functional Materials for Sustainable Environments				197	209	10.1007/978-3-031-62620-3_19	https://www.scopus.com/pages/publications/105001752152?origin=resultslist	Scopus

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293	Kumar T.; Chaudhary S.; Kumar K.; Dhanuk K.; Sharma M.K.	Dynamic ranking function to optimize transshipment costs in intuitionistic Type-2 and Type-1 fuzzy environments	2024	Systems and Soft Computing	6		200153			10.1016/j.sasc.2024.200153	https://www.scopus.com/pages/publications/85205968895?origin=resultslist	Scopus
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295	Tarique H.; Shahid R.; Singh P.; Singh A.K.; Pandey R.; Singh P.	Investigation of sodium and germanium bi-substituted trimeric strontium silicate (Sr3-3xNa3xSi3-3yGe3yO9-δ; 0 < x < 0.20, y = 0.1) as solid electrolyte	2024	Journal of Applied Electrochemistry	54	3		487	502	10.1007/s10800-023-01994-w	https://www.scopus.com/pages/publications/85174309426?origin=resultslist	Scopus
296	Aalam S.M.; Raza M.M.H.; Sarvar M.; Sadiq M.; Akram M.F.; Ali J.	Influence of the Decoration of Copper Metal Nanoparticles on the Structural and Electronic Properties of Carbon Nanotubes	2024	Springer Proceedings in Materials	27			407	413	10.1007/978-981-99-4878-9_57	https://www.scopus.com/pages/publications/85178145791?origin=resultslist	Scopus
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298	Jha G.K.	Foreword	2024	Springer Proceedings in Materials	37			ix	x		https://www.scopus.com/pages/publications/85181661844?origin=resultslist	Scopus
299	Lalrindiki F.; Premjit Singh N.; Mohondas Singh N.	A review of synthesis, photocatalytic, photoluminescence and antibacterial properties of bismuth vanadate-based nanomaterial	2024	Inorganic Chemistry Communications	168		112846			10.1016/j.inoche.2024.112846	https://www.scopus.com/pages/publications/85198355266?origin=resultslist	Scopus
300	Singh J.P.; Sharma A.; Gupta R.; Tomar M.; Chowdhuri A.	Growth of WO3–SnO2 Composite Using Chemical Method for NO2 Sensing	2024	Springer Proceedings in Materials	27			269	273	10.1007/978-981-99-4878-9_37	https://www.scopus.com/pages/publications/85178166028?origin=resultslist	Scopus

301	Jha G.K.	Foreword	2024	Advanced Functional Materials for Sustainable Environments				v	vi		https://www.scopus.com/pages/publications/105001743424?origin=resultslist	Scopus
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303	Sharma S.; Kumar M.; Veer Singh D.; Raymond Herrera O.; Siqueiros J.M.	Effect of organic molecule layer on the interfacial engineering, stability, and conversion efficiency of the perovskite solar cell heterostructure	2024	Materials Letters	366		136472			10.1016/j.matlet.2024.136472	https://www.scopus.com/pages/publications/85190745908?origin=resultslist	Scopus
304	Vikal M.; Shah S.; Singh N.; Gupta M.; Singh P.; Kumar Y.	Solar Light Active Graphitic Carbon Nitride/Biochar Nanocomposite for RhB Dye Degradation	2024	Macromolecular Symposia	413	1	2E+06			10.1002/masy.202300025	https://www.scopus.com/pages/publications/85185407802?origin=resultslist	Scopus
305	Chitralekha; Gaurav S.; Kotnala R.K.; Shankar S.; Singh A.P.	Dielectric, Impedance, Magnetic and Magnetocapacitance Investigations in ferrite–manganite nanocomposites for Hydroelectric Cell applications	2024	Emergent Materials	7	3		1151	1171	10.1007/s42247-023-00621-w	https://www.scopus.com/pages/publications/85181485788?origin=resultslist	Scopus
306	Raza M.M.H.; Ali J.; Sadiq M.; Khan F.	An in-situ process for the growth of carbon nanotubes on the graphene flakes for enhancing the electron field emission properties	2024	Diamond and Related Materials	148		111478			10.1016/j.diamond.2024.111478	https://www.scopus.com/pages/publications/85201387210?origin=resultslist	Scopus
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309	Badawi M.N.; Bhuyan M.; Agrawal N.; Kumar Y.	Synthesis, technological prospects and applications of MXene in biomedicine, supercapacitors and sensors: A review	2024	Characterization and Application of Nanomaterials	7	2	6348			10.24294/can.v7i2.6348	https://www.scopus.com/pages/publications/105014731254?origin=resultslist	Scopus
310	Gupta K.; Thakur O.P.; Kumar M.	Efficient and stable perovskite solar cell through the interfacial engineering: Experiment and computational investigations	2024	Optical Materials	150		115125			10.1016/j.optmat.2024.115125	https://www.scopus.com/pages/publications/85186325126?origin=resultslist	Scopus
311	Jharwal S.; Kumar A.	Evidence of Ferromagnetic Short-Range Correlations in Sol–gel Synthesized La1.88 Sr0.12CoMnO6 Nanoparticles	2024	Springer Proceedings in Materials	37			15	27	10.1007/978-981-99-6766-7_2	https://www.scopus.com/pages/publications/85178900334?origin=resultslist	Scopus
312	Babu Singh M.; Himani; Yadav S.; Singh P.	A Theoretical Study To Understand the Impact of Mpro of nCoV on the Hormones	2024	ChemistrySelect	9	8	e202304767			10.1002/slct.202304767	https://www.scopus.com/pages/publications/85185688506?origin=resultslist	Scopus
313	Borah S.J.; Gupta A.; Singh P.; Kumar V.	Advances and Current Approach to Recycled Plastic Waste	2024	Integrated Waste Management: A Sustainable Approach from Waste to Wealth				413	427	10.1007/978-981-97-0823-9_20	https://www.scopus.com/pages/publications/85207551173?origin=resultslist	Scopus
314	Jharwal S.; Verma V.K.; Kumar A.	Correlation between the structural phase transition and magnetic properties of sol-gel synthesized nanoparticles	2024	EPL	146	6	66003			10.1209/0295-5075/ad5908	https://www.scopus.com/pages/publications/85198573773?origin=resultslist	Scopus
315	Yadav S.; Raman A.P.S.; Singh M.B.; Massey I.; Singh P.; Verma C.; AlFantazi A.	Green nanoparticles for advanced corrosion protection: Current perspectives and future prospects	2024	Applied Surface Science Advances	21		100605			10.1016/j.apsadv.2024.100605	https://www.scopus.com/pages/publications/85191888906?origin=resultslist	Scopus
316	Verma R.; Dhingra G.; Singh G.; Singh J.; Dureja N.; Malik A.K.	Efficient Turn-On Zr Based Metal Organic Framework Fluorescent Sensor for Ultrafast Detection of Danofloxacin in Milk Samples	2024	Journal of Fluorescence	34	4		1631	1642	10.1007/s10895-023-03379-w	https://www.scopus.com/pages/publications/85168123289?origin=resultslist	Scopus

317	Jabeen F.; Gupta N.K.; Pandey R.; Singh M.N.; Shahid R.; Khan M.S.	Modifying electric and multiferroic properties of lead-free 0.7BFO-0.3BTO ceramics via Sm and Ga co-doping	2024	Physica Scripta	99	1	15941			10.1088/1402-4896/ad156b	https://www.scopus.com/pages/publications/85181464607?origin=resultslist	Scopus
318	Yadav S.; Lotlecar S.G.; Singh P.; Jain P.	Effects of Nanodiamonds on Cancer Cells	2024	Biosensors Based on Graphene, Graphene Oxide and Graphynes for Early Detection of Cancer				53	60	10.1201/9781003491361-4	https://www.scopus.com/pages/publications/85217307383?origin=resultslist	Scopus
319	Dimngaihvungi E.; Kumar M.; Singh A.K.; Pani B.; Singh A.K.; Singh M.	Multiple times synthesis of silver nanowires by recycling the waste left after standard polyol synthesis for flexible transparent heater	2024	Journal of the Taiwan Institute of Chemical Engineers	161		105529			10.1016/j.jtice.2024.105529	https://www.scopus.com/pages/publications/85192730627?origin=resultslist	Scopus
320	Sarvar M.; Aalam S.M.; Sadiq M.; Khan M.S.; Alia J.	Synthesis and Characterization of Cu-MOF (Copper-Metal Organic Framework) for Gas Sensor and Electron Emission Devices	2024	Advanced Functional Materials for Sustainable Environments				65	71	10.1007/978-3-031-62620-3_6	https://www.scopus.com/pages/publications/105001783083?origin=resultslist	Scopus
321	Sahu B.B.; Moharana S.; Behera P.K.	Elastomeric-Based Composite Materials for Engineering Applications	2024	Engineering Materials	2024			329	355	10.1007/978-981-97-2075-0_11	https://www.scopus.com/pages/publications/85196297358?origin=resultslist	Scopus
322	Yadav S.; Sewariya S.; Singh P.; Chandra R.; Jain P.; Kumari K.	Analytic and In Silico Methods to Understand the Interactions between Dinotefuran and Haemoglobin	2024	Chemistry and Biodiversity	21	8	e202400495			10.1002/cbdv.202400495	https://www.scopus.com/pages/publications/85199389051?origin=resultslist	Scopus
323	Singh M.B.; Bhagat P.; Singh P.	A Comparative Study to understand the potential of DES [ChCl-PD] towards HCN binding	2024	Ionics	30	6		3661	3677	10.1007/s11581-024-05515-3	https://www.scopus.com/pages/publications/85190372588?origin=resultslist	Scopus
324	Kumar M.; Devi M.; Singh D.V.; Gupta K.; Raj A.; Pundir S.K.; Anshul A.; Thakur O.P.	Advances in green energy conversion efficiency and interfacial engineering investigations of lead-free FASnI3-based PSC device	2024	Journal of Physics and Chemistry of Solids	193		112139			10.1016/j.jpcs.2024.112139	https://www.scopus.com/pages/publications/85198597836?origin=resultslist	Scopus

325	Jain P.; Shankar S.; Thakur O.P.	Unveiling the structural, optical, electrical, and ferromagnetic properties of Ca2+ doped mixed spinel ferrites for switching field high-frequency device applications	2024	Ceramics International	50	22		48354	48372	10.1016/j.ceramint.2024.09.185	https://www.scopus.com/pages/publications/85204046012?origin=resultslist	Scopus
326	Raja N.; Gautam G.; Maurya S.K.; Sharma A.; Singh S.; Singh A.K.; Pandey R.	Tribology of Spray Formed Aluminium-Based Materials	2024	Springer Proceedings in Materials	37			173	182	10.1007/978-981-99-6766-7_15	https://www.scopus.com/pages/publications/85178969039?origin=resultslist	Scopus
327	Imam M.; Saini K.	A review of applications and security: Blockchain technology	2024	Blockchain and EHR				1	20		https://www.scopus.com/pages/publications/85196237731?origin=resultslist	Scopus
328	Rai G.; Sehgal P.; Patel K.	Wireless image transfer by various antennas using transmitter and receiver modules at 5.8 GHz	2024	International Journal of Microwave and Wireless Technologies	16	7		1248	1259	10.1017/S1759078724000618	https://www.scopus.com/pages/publications/85207761903?origin=resultslist	Scopus
329	Arya M.; Chitralekha; Gaurav S.; Shankar S.	Investigation of Structural and Electrical Properties of Ternary System LCMO-CFO-BT	2024	Springer Proceedings in Materials	37			35	43	10.1007/978-981-99-6766-7_4	https://www.scopus.com/pages/publications/85178961795?origin=resultslist	Scopus
330	Singh B.; Veer Singh D.; Kumar Singh B.	Thermodynamics, phase structure and quasinormal modes for AdS Heyward massive black hole	2024	Physica Scripta	99	2	25305			10.1088/1402-4896/ad1da4	https://www.scopus.com/pages/publications/85183105044?origin=resultslist	Scopus
331	Rani A.; Aslam M.; Khan J.; Pandey G.; Singh P.; Maharia R.S.; Nand B.	Computational Insights into Chromene/pyran Derivatives: Molecular Docking, ADMET Studies, DFT Calculations, and MD Simulations as Promising Candidates for Parkinson's Disease	2024	Chemistry and Biodiversity	21	8	e202400920			10.1002/cbdv.202400920	https://www.scopus.com/pages/publications/85197752165?origin=resultslist	Scopus
332	Raman A.P.S.; Singh P.; Jain P.	Recombinant E. coli in the rejuvenation of the polluted environment	2024	Genetically Engineered Organisms in Bioremediation				106	118	10.1201/9781003188568-7	https://www.scopus.com/pages/publications/85176904324?origin=resultslist	Scopus

333	Singh M.B.; Jain P.; Singh P.	Wind Energy: From Past to Present Technology	2024	Wind Energy Storage and Conversion: From Basics to Utilities				1	16		https://www.scopus.com/pages/publications/85201877768?origin=resultslist	Scopus
334	Aslam M.; Singh M.B.; Singh P.; Pandey G.; Kumar A.; Singh S.; Tumba K.; Chopra H.; Kumar D.; Kumari K.	Impact of functional group positioning in the anion of ionic liquids on aqueous solubility: a study through DFT calculations	2024	Ionics	30	2		875	887	10.1007/s11581-023-05305-3	https://www.scopus.com/pages/publications/85177786741?origin=resultslist	Scopus
335	Kumar A.; Kumar V.; Singh P.; Tittal R.K.; Lal K.	Ionic liquids for the green synthesis of 1,2,3-triazoles: a systematic review	2024	Green Chemistry	26	7		3565	3594	10.1039/d3gc04898e	https://www.scopus.com/pages/publications/85187574328?origin=resultslist	Scopus
336	Devi M.; Kumar M.; Singh D.V.	Impact on green energy conversion and stability of PSC device with the insertion of bifunctional molecule as an interfacial layer	2024	Journal of Physics and Chemistry of Solids	194		112247			10.1016/j.jpcs.2024.112247	https://www.scopus.com/pages/publications/85200821781?origin=resultslist	Scopus
337	Verma C.; Singh A.; Singh P.; Yop Rhee K.; Alfantazi A.	Regioisomeric effect of heteroatoms and functional groups of organic ligands: Impacts on coordination bonding and corrosion protection performance	2024	Coordination Chemistry Reviews	515		215966			10.1016/j.ccr.2024.215966	https://www.scopus.com/pages/publications/85193511909?origin=resultslist	Scopus
338	Singh P.; Pandey R.; Singh P.	Impact of Sintering on Specific Heat, Ion Conducting Channels and Electrical Properties of Na0.5Bi0.5TiO3 SOFC Electrolyte	2024	Advanced Functional Materials for Sustainable Environments				103	118	10.1007/978-3-031-62620-3_10	https://www.scopus.com/pages/publications/105001750962?origin=resultslist	Scopus
339	Semthanga B.; Jain S.G.; Gandhi S.K.	Some results on geometric properties of frames in Banach spaces	2024	Results in Nonlinear Analysis	7	4		45	51	10.31838/rna/2024.07.04.006	https://www.scopus.com/pages/publications/85211367041?origin=resultslist	Scopus
340	Kotnala R.K.; Kaushik A.S.; Subramanian S.S.; Vishwakarma A.K.	Preface	2024	Advanced Functional Materials for Sustainable Environments				vii	viii		https://www.scopus.com/pages/publications/105001747646?origin=resultslist	Scopus

341	Kumar V.; Tyagi B.K.	Projectively regular (T2, T1) weakly developable semitopological groups	2024	Topology and its Applications	356		109028			10.1016/j.topol.2024.109028	https://www.scopus.com/pages/publications/85201266071?origin=resultslist	Scopus
342	Kumar V.; Singh M.B.; Singh P.; Paul A.K.; Lal K.	Isatin based 1,2,3-triazole derivatives as antimicrobial agents: Synthesis, in silico docking and molecular dynamics simulations	2024	Journal of Molecular Structure	1312		138378			10.1016/j.molstruc.2024.138378	https://www.scopus.com/pages/publications/85192097621?origin=resultslist	Scopus
343	Manisha; Chitralekha; Gaurav S.; Shankar S.	Study of Structural, Electrical Properties of Double Perovskite Based Composites for Eco-Friendly Hydroelectric Cell Applications	2024	Advanced Functional Materials for Sustainable Environments				129	136	10.1007/978-3-031-62620-3_12	https://www.scopus.com/pages/publications/105001777177?origin=resultslist	Scopus
344	Luwang N.C.; Rana D.K.; Yadav M.K.; Sharma H.; Kumar A.; Kumar S.; Surbhi	Synthesis of ZnO nanostructure via CBD and solvothermal method using seed technique	2024	Journal of Sol-Gel Science and Technology	112	3		728	737	10.1007/S10971-024-06557-9	https://www.scopus.com/pages/publications/85205556684?origin=resultslist	Scopus
345	Taneja N.; Bocchetta P.; Kumar A.; Gupta P.; Gupta M.; Singh P.; Beniwal B.; Agrawal N.; Kumar Y.	Experimental Investigations on Highly Conducting Solid Bio-Polymer Electrolytes Based on Latex of Calotropis gigantea Plant	2024	Macromolecular Symposia	413	1	2E+06			10.1002/masy.202300016	https://www.scopus.com/pages/publications/85185390840?origin=resultslist	Scopus
346	Sharma S.; Rojas-George G.; Kumar M.; Kumar P.; Kumar R.; Kumar S.; Siqueiros J.M.; Herrera O.R.	Impact of Cr Doping on the Structural, Optical, and Magnetic Properties of Sol-Gel-Synthesized Bi0.80Ba0.10Pr0.10FeO3 Nanopowders	2024	ACS Omega	9	25		27549	27558	10.1021/acsomega.4c03032	https://www.scopus.com/pages/publications/85196020044?origin=resultslist	Scopus
347	Gupta K.; Thakur O.P.; Kumar M.	Graphene and Graphene Oxide Properties and Applications	2024	Biosensors Based on Graphene, Graphene Oxide and Graphynes for Early Detection of Cancer				107	120	10.1201/9781003491361-7	https://www.scopus.com/pages/publications/85217337803?origin=resultslist	Scopus

348	Jain P.; Shankar S.; Thakur O.P.	Structural, Ferroelectric, and Ferromagnetic Properties of Yttrium-Doped Cobalt Ferrites to Produce Green Electricity by Hydroelectric Cells	2024	Journal of Electronic Materials	53	9		5169	5183	10.1007/s11664-024-11178-7	https://www.scopus.com/pages/publications/85195645749?origin=resultslist	Scopus
349	Negi M.; Kaushik N.; Lamichhane P.; Jaiswal A.; Borkar S.B.; Patel P.; Singh P.; Choi E.H.; Kaushik N.K.	Biocompatible plasma-treated liquids: A sustainable approach for decontaminating gastrointestinal-infection causing pathogens	2024	Journal of Hazardous Materials	472		134562			10.1016/j.jhazmat.2024.134562	https://www.scopus.com/pages/publications/85193003887?origin=resultslist	Scopus
350	Kumar A.; Kumar S.; Srivastava M.P.; Yadav P.; Surbhi; Rana D.K.	Structural and Optical Properties of Chalcogenide WS2 Thin Film	2024	Springer Proceedings in Materials	37			267	274	10.1007/978-981-99-6766-7_24	https://www.scopus.com/pages/publications/85178933037?origin=resultslist	Scopus
351	Kumar D.; Singh R.; Gautam M.	Impact of surfactant-assisted synthesis on the structural, optical, and dielectric characteristics of ZnO nanoparticles	2024	Nano Express	5	1	15002			10.1088/2632-959X/ad12d8	https://www.scopus.com/pages/publications/85180952738?origin=resultslist	Scopus
352	Umesh D.; Chourasia R.K.; Katti A.; Prashant B.L.	Origin of Gap Solitons in Gaussian Apodized Centro-Symmetrical Non-linear KLTN Lattices	2024	Springer Proceedings in Materials	37			297	308	10.1007/978-981-99-6766-7_27	https://www.scopus.com/pages/publications/85178888541?origin=resultslist	Scopus
353	Pratap SinghRaman A.; Kumar D.; Kumari K.; Jain P.; Bahadur I.; Abedigamba O.P.; Preetam A.; Singh P.	Computational Insights for Interactions between nsP2 and nsP3 of CHIKV and Hormones through DFT Computations and Molecular Dynamics Simulations	2024	Chemistry and Biodiversity	21	12	e202401241			10.1002/cbdv.202401241	https://www.scopus.com/pages/publications/85206581449?origin=resultslist	Scopus
354	Jain P.; Aggarwal S.; Adam S.; Imam M.	Parametric optimization and comparative study of machine learning and deep learning algorithms for breast cancer diagnosis	2024	Breast Disease	43	1		257	270	10.3233/BD-240018	https://www.scopus.com/pages/publications/85205151580?origin=resultslist	Scopus
355	Krishnakumar A.K.; Malaiyandi J.; Muralidharan P.; Rehalia A.; Ahuja A.; Duraisamy V.; Agrawal U.; Singh A.K.; Singh H.N.; Swarup V.	Active Phytochemicals of Indian Spices Target Leading Proteins Involved in Breast Cancer: An in Silico Study	2024	Journal of the Korean Chemical Society	68	3		151	159	10.5012/jkcs.2024.68.3.151	https://www.scopus.com/pages/publications/105030145200?origin=resultslist	Scopus
356	Singh M.B.; Sharma U.; Singh Raman@ A.P.; Jain P.; Kumari K.; Singh P.	Eutectic Mixtures of APIs: A way to Improve the Physiochemical Properties and Oral Bioavailability of the Drugs	2024	ChemistrySelect	9	31	e202401319			10.1002/slct.202401319	https://www.scopus.com/pages/publications/85201216932?origin=resultslist	Scopus

357	Kumar M.; Pundir S.K.; Singh D.V.	Effect on green energy conversion and stability with 'Er' modification in multiferroic based perovskite solar cell devices	2024	Materials Today Communications	38		107841			10.1016/j.mtcomm.2023.107841	https://www.scopus.com/pages/publications/85180981230?origin=resultslist	Scopus
358	Kumar A.; Gupta A.; Kumar A.; Surbhi; Sharma H.; Kumar Yadav M.; Srivastava M.P.; Kumar Rana D.	A study on structural and electronic properties of WS2/SnS2 composite thin films by CBD method	2024	Chemical Physics Letters	844		141264			10.1016/j.cplett.2024.141264	https://www.scopus.com/pages/publications/85190863463?origin=resultslist	Scopus
359	Gupta A.; Kumar A.; Srivastava M.P.; Meena V.S.; Kumar S.; Rana D.K.	Characterization of Nanocrystalline ZnS Thin Film on p–Si by Chemical Bath Deposition Method	2024	Springer Proceedings in Materials	37			227	234	10.1007/978-981-99-6766-7_20	https://www.scopus.com/pages/publications/85178947310?origin=resultslist	Scopus
360	Prajapat A.; Aslam M.; Rana I.; Ranjan K.R.; Singh P.; Verma C.; AlFantazi A.; Kumari K.	Computational supported experimental insights in adsorption of Congo Red using ZnO/doped ZnO in aqueous solution	2024	Scientific Reports	14	1	27189			10.1038/s41598-024-77619-9	https://www.scopus.com/pages/publications/85209484112?origin=resultslist	Scopus
361	Gunjan; Bhagat N.; Choudhary A.; Kumari P.; Kumar P.; Bhagat S.	One-Pot Synthesis of Fluorinated Amino Pyrimidines: Molecular Docking, ADME, and DFT Insights for SARS-CoV-2 MPro Inhibition	2024	ChemistrySelect	9	47	e202403683			10.1002/slct.202403683	https://www.scopus.com/pages/publications/85211908239?origin=resultslist	Scopus
362	Jabeen F.; Gupta N.K.; Khan M.S.; Pandey R.; Singh M.N.; Kumar A.; Shahid R.	Investigation of electrical, dielectric and multiferroic properties of 0.7Bi0.95Sm0.05Fe1-xGaxO3-0.3BaTiO3 composite ceramic system for high temperature piezoelectric applications	2024	Materials Today Communications	41		110543			10.1016/j.mtcomm.2024.110543	https://www.scopus.com/pages/publications/85205918285?origin=resultslist	Scopus
363	Yadav S.; Sewariya S.; Babu Singh M.; Sachdeva B.; Singh P.; Chandra R.; Kukreity S.; Singh S.K.; Kumari K.	Employing Spectroscopic, Electrochemical, and In Silico Research to Investigate the Interaction of Ofloxacin, Antibacterial Drug With the Haemoglobin	2024	ChemistrySelect	9	20	e202400770			10.1002/slct.202400770	https://www.scopus.com/pages/publications/85193841327?origin=resultslist	Scopus
364	Aslam M.; Rani A.; Khan J.; Sharma R.; Pant B.N.; Singh P.; Kumar V.; Pandey G.; Bhawna	Advances in metallopolymers: Synthesis strategies, catalytic insights, and environmental remediation applications	2024	Sustainable Chemistry and Pharmacy	40		101630			10.1016/j.scp.2024.101630	https://www.scopus.com/pages/publications/85194946531?origin=resultslist	Scopus
365	Aslam M.; Goswami A.G.; Bhawna; Singh P.; Kumar V.; Pant B.N.; Pandey G.; Kumari K.	An Understanding for the Synthesis of Metal NPs to Photocatalysis to Toxicity	2024	Plasmonics	19	6	163589	3455	3492	10.1007/s11468-023-02151-x	https://www.scopus.com/pages/publications/85179938606?origin=resultslist	Scopus

366	Talreja R.K.; Sable H.; Chaudhary V.; Kadian S.; Singh M.; Kumar M.; Kishore J.; Chaudhary V.; Khosla A.	Review—Challenges in Lab-to-Clinic Translation of 5th/6th Generation Intelligent Nanomaterial-enabled Biosensors	2024	ECS Sensors Plus	3	4	41602			10.1149/2754-2726/ad9f7e	https://www.scopus.com/pages/publications/85213712622?origin=resultslist	Scopus
367	Acharya T.R.; Chaudhary D.K.; Lamichhane P.; Joshi S.K.; Gautam S.; Kaushik N.; Al-Khedhairy A.A.; Wahab R.; Singh M.B.; Singh P.; Choi E.H.; Kaushik N.K.	Impact of Aluminum doping on the enhanced ethanol gas sensing characteristics of ZnO thin film	2024	Ceramics International	50	24		55143	55158	10.1016/j.ceramint.2024.10.364	https://www.scopus.com/pages/publications/85208035871?origin=resultslist	Scopus
368	Pandey R.; Singh P.; Upadhyay A.N.; Nokhwal R.; Yadav A.K.; Shahid R.; Singh P.	Structural implications on transport dynamics in K-doped monomeric SrSiO3 system	2024	Inorganic Chemistry Communications	168		112923			10.1016/j.inoche.2024.112923	https://www.scopus.com/pages/publications/85200238706?origin=resultslist	Scopus
369	Tarique H.; Shahid R.; Singh P.; Pandey R.; Singh P.	Investigation of structural, morphological, and ionic conduction behaviour of Na+ substituted trimeric strontium silicate Sr3–3xNa3xSi3O9-δ ($0.00 \leq x \leq 0.20$)	2024	Materials Today Communications	39		108652			10.1016/j.mtcomm.2024.108652	https://www.scopus.com/pages/publications/85188698574?origin=resultslist	Scopus
370	Sharma P.; Thakur D.; Kumar D.; Yadav O.	Unveiling Xanthine Presence in Rohu Fish Using Ag+-Doped MoS2 Nanosheets Through Electrochemical Analysis	2024	Applied Biochemistry and Biotechnology	196	8		5219	5234	10.1007/s12010-023-04823-0	https://www.scopus.com/pages/publications/85180655385?origin=resultslist	Scopus
371	Kumar P.; Banerjee K.; Kumar Y.	Tailoring novel glycerol-potassium iodide deep eutectic solvents: A comprehensive investigation of physical, structural, and electrochemical properties	2024	Journal of Molecular Liquids	414		126031			10.1016/j.molliq.2024.126031	https://www.scopus.com/pages/publications/85205533070?origin=resultslist	Scopus
372	Massey I.; Yadav S.; Vishvakarma V.K.; Singh P.	Future Perspectives on Graphene Oxide and Graphyne in Detecting Cancer and Other Diseases	2024	Biosensors Based on Graphene, Graphene Oxide and Graphynes for Early Detection of Cancer				266	278	10.1201/9781003491361-17	https://www.scopus.com/pages/publications/85217295834?origin=resultslist	Scopus

373	Gunjan; Kumar P.; Goel N.; Ganjoo S.; Yadav M.; Verma A.K.; Bhagat S.	Design, Synthesis, Molecular Docking, and in vitro Cytotoxicity Studies of Marine Natural Product Herdmanine Derivatives as Multitarget Inhibitor for EGFR and HER2 Breast Cancer Proteins	2024	ChemistrySelect	9	34	e202401308			10.1002/slct.202401308	https://www.scopus.com/pages/publications/85203381513?origin=resultslist	Scopus
374	Sharma B.; Sharma A.; Gupta R.; Chowdhuri A.; Verma M.; Tomar M.	Flexible sheets of lead free KNN-PVDF composite: A sustainable pyroelectric energy harvester	2024	Ceramics International	50	22		46982	46992	10.1016/j.ceramint.2024.09.049	https://www.scopus.com/pages/publications/85204052308?origin=resultslist	Scopus
375	Kumar A.; Lal K.; Murtaza M.; Jaglan S.; Rohila Y.; Singh P.; Singh M.B.; Kumari K.	Antimicrobial, antibiofilm, docking, DFT and molecular dynamics studies on click-derived isatin-thiosemicarbazone-1,2,3-triazoles	2024	Journal of Biomolecular Structure and Dynamics	42	19		9919	9938	10.1080/07391102.2023.2253912	https://www.scopus.com/pages/publications/85170663526?origin=resultslist	Scopus
376	Dhingra A.; Thakur O.P.; Pandey R.	Enhanced magnetic properties of single domain Al-substituted strontium hexaferrite (SrFe12−xAlxO19) synthesized via hydrothermal method for permanent magnets	2024	Journal of Alloys and Compounds	1001		175132			10.1016/j.jallcom.2024.175132	https://www.scopus.com/pages/publications/85195832818?origin=resultslist	Scopus
377	Vrinda; Narang G.; Pandey G.; Singh P.; Kumari K.	Polyphenols as Antimicrobial (Disinfectant and Pest control) Applications	2024	Science and Engineering of Polyphenols: Fundamentals and Industrial Scale Applications				416	435	10.1002/9781394203932.ch16	https://www.scopus.com/pages/publications/85198601105?origin=resultslist	Scopus
378	Pratap Singh Raman A.; Thakur G.; Pandey G.; Kumari K.; Singh P.	An Updated Review on Functionalized Graphene as Sensitive Materials in Sensing of Pesticides	2024	Chemistry and Biodiversity	21	6	e202302080			10.1002/cbdv.202302080	https://www.scopus.com/pages/publications/85192183135?origin=resultslist	Scopus
379	Yadav S.; Jain P.; Singh P.	Ferroic Materials: From Past to Present	2024	Ferroic Materials-Based Technologies				1	18	10.1002/9781394238194.ch1	https://www.scopus.com/pages/publications/105023926880?origin=resultslist	Scopus

380	Tarique H.; Shahid R.; Singh P.; Singh A.K.; Pandey R.; Singh P.	Influence of K+ substitution on germanium doped strontium silicate (Sr3-3xK3xSi3-3yGe3yO9-δ; 0 ≤ x ≤ 0.20, y=0.1) for application as solid electrolyte	2024	Physica B: Condensed Matter	672		415456			10.1016/j.physb.2023.415456	https://www.scopus.com/pages/publications/85175076127?origin=resultslist	Scopus
381	Chitralekha; Pratibha K.; Anand A.; Choubey R.K.; Gaurav S.; Shankar S.; Singh A.P.	Investigating the multiferroic properties within triphasic systems to comprehend the mechanisms of water splitting	2024	Ceramics International	50	23		51307	51320	10.1016/j.ceramint.2024.10.047	https://www.scopus.com/pages/publications/85206322154?origin=resultslist	Scopus
382	Kumar M.; Kumar P.	White Light Emitting Materials: Illuminating Brilliance	2024	Progress in Optical Science and Photonics	31			1	154	10.1007/978-981-97-6744-1	https://www.scopus.com/pages/publications/85217014038?origin=resultslist	Scopus
383	Yadav S.; Raman A.P.S.; Sewariya S.; Singh P.; Jain P.; Chandra R.; Kumari K.	Binding Studies Between Dinotefuran and Bovine Serum Albumin Using Multiple Analytical Approaches	2024	ChemistrySelect	9	44	e202402687			10.1002/slct.202402687	https://www.scopus.com/pages/publications/85210044602?origin=resultslist	Scopus
384	Kumar A.; Gupta S.; Mukherjee S.; Gaurav S.; Shankar S.; Kushwah K.K.; Mahobia S.K.; Samadhiya A.; Tomar S.; Singh B.P.; Gautam Y.K.; Dwivedi U.K.; Kumar S.; Choubey R.K.	Fabrication of enhanced performance Visible-light photodetector based on Ag/ZnS/p-Si/Ag heterojunction grown by chemical bath deposition	2024	Materials Today Communications	38		108252			10.1016/j.mtcomm.2024.108252	https://www.scopus.com/pages/publications/85184058013?origin=resultslist	Scopus
385	Kumar M.; Pundir S.K.; Sharma S.; Raymond Herrera O.; Siqueiros J.M.; Kumar M.	Tuning the Physical Properties of Perovskite Multiferroic Nanoparticles for Green Energy Applications	2024	Lecture Notes in Nanoscale Science and Technology	37			321	346	10.1007/978-3-031-57843-4_13	https://www.scopus.com/pages/publications/105033069084?origin=resultslist	Scopus
386	Jain P.; Shankar S.; Thakur O.P.	Investigation of Mg2+ Ion Substitution on the Structural, Electric, and Magnetic Properties of Soft Spinel Ferrites (NiFe2O4) for High-Frequency Applications	2024	Journal of Electronic Materials	53	9		5032	5048	10.1007/s11664-024-11072-2	https://www.scopus.com/pages/publications/85191688811?origin=resultslist	Scopus

387	Singh M.B.; Singh P.; Jain P.	Processing of Indian Species for Extraction of Active Principles	2024	Medicinal Spices and Herbs from India: Volume 1: Introduction, Therapeutic Properties, and Commercial Products	1			85	100		https://www.scopus.com/pages/publications/85218644714?origin=resultslist	Scopus
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389	Malik P.; Malik R.; Duhan S.	3D hollow mesoporous α-Fe2O3 sensor detecting liquified petroleum gas and humidity for diagnosing sleep hypopnea-apnea syndrome	2024	Ceramics International	50	23		49311	49325	10.1016/j.ceramint.2024.09.276	https://www.scopus.com/pages/publications/85205767762?origin=resultslist	Scopus
390	Raman A.P.S.; Pongpaiboon S.; Bhatia R.; Lal Dabodhia K.; Kumar A.; Kumar D.; Jain P.; Sagar M.; Singh P.; Kumari K.	In silico study on antidiabetic and antioxidant activity of bioactive compounds in Ficus carica L	2024	Journal of Biomolecular Structure and Dynamics	42	14		7515	7531	10.1080/07391102.2023.2240425	https://www.scopus.com/pages/publications/85166908128?origin=resultslist	Scopus
391	Kumar V.; Kumari P.; Yadav S.; Kumari K.; Jaglan S.; Lal K.	Molecular Docking and Molecular Dynamics Simulations of Synthesized Thiazole-Isatin-1,2,3-triazole Hybrids as Promising Inhibitors for DNA Gyrase and Sterol 14α-Demethylase	2024	Chemistry and Biodiversity	21	10	e202400914			10.1002/cbdv.202400914	https://www.scopus.com/pages/publications/85206404799?origin=resultslist	Scopus
392	Raman A.P.S.; Aslam M.; Naina; Verma C.; AlFantazi A.; Jain P.; Prajapat A.; Singh P.; Kumari K.	Composite Nanoarchitectonics based on Graphene Oxide in Energy Storage and Conversion: Status, Challenges & Opportunities	2024	Journal of Inorganic and Organometallic Polymers and Materials	34	11		5035	5065	10.1007/s10904-024-03154-9	https://www.scopus.com/pages/publications/85196259597?origin=resultslist	Scopus

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394	Raj A.; Sharma S.; Singh D.V.; Kumar A.; Chourasia R.K.; Siqueiros J.M.; Herrera O.R.; Anshul A.; Kumar M.	Photovoltaic energy conversion in multiferroic perovskite absorber-based devices via experiment and theoretical calculations	2024	Physica B: Condensed Matter	673		415504			10.1016/j.physb.2023.415504	https://www.scopus.com/pages/publications/85181685298?origin=resultslist	Scopus
395	Singh M.B.; Jain P.; Mohammad F.; Singh P.; Bahadur I.; Abedigamba O.P.	Significant Increase in the Dipole Moment of Graphene on Functionalization: DFT Calculations and Molecular Dynamics Simulations	2024	ACS Omega	9	14		16458	16468	10.1021/acsomega.4c00173	https://www.scopus.com/pages/publications/85189037230?origin=resultslist	Scopus
396	Aalam S.M.; Sarvar M.; Sadiq M.; Ali J.	A Highly Sensitive Surface-Modified Porous Carbon Nanotube-Based Sensor for Ammonia Gas Detection	2024	ACS Omega	9	4		4486	4496	10.1021/acsomega.3c07244	https://www.scopus.com/pages/publications/85183041215?origin=resultslist	Scopus
397	Noonepalle H.; Palacharla V.; Dubey S.K.; Singh A.K.; Swarnakar S.	Exploring the fascinating world of combinational photonic devices: A review	2024	Optik	311		171923			10.1016/j.ijleo.2024.171923	https://www.scopus.com/pages/publications/85196841033?origin=resultslist	Scopus
398	Mishra N.; Gulati S.; Moriya Y.; Kumar S.; Dubey G.	Enhanced photocatalytic degradation of hazardous dyes under visible light with biogenically synthesized ZnO-decked multi-walled carbon nanotubes (ZnO/MWCNT) nanocomposite: Catalyst fabrication, performance and mechanistic insight	2024	Nano-Structures and Nano-Objects	39		101200			10.1016/j.nanoso.2024.101200	https://www.scopus.com/pages/publications/85195880931?origin=resultslist	Scopus
399	Beniwal B.; Kumar Y.; Gupta M.; Sharma S.	Quantum Capacitance of Mo2N MXene for Supercapacitor Applications	2024	Macromolecular Symposia	413	1	2E+06			10.1002/masy.202200198	https://www.scopus.com/pages/publications/85185392040?origin=resultslist	Scopus
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401	Kumar V.; Bhukal A.; Raman A.P.S.; Singh P.; Lal K.	Synthesis, Characterization, Antimicrobial and In Silico Studies of Isatin Schiff Base Linked 1,2,3-Triazole Hybrids	2024	Chemistry and Biodiversity	21	7	e202400569			10.1002/cbdv.202400569	https://www.scopus.com/pages/publications/85195689236?origin=resultslist	Scopus

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403	Sadiq M.; Khan M.A.; Raza M.M.H.; Zulfequar M.; Ali J.	Improved performance of biopolymer composite electrolyte based cellulose acetate/Zinc Oxide filler for supercapacitors	2024	Energy and Environment	35	6		2888	2910	10.1177/0958305X231159443	https://www.scopus.com/pages/publications/85149968994?origin=resultslist	Scopus
404	Kaur A.; Kumar S.; Kaur H.; Lotey G.S.; Singh P.P.; Singh G.; Supreet N.; Kumar S.; Dalal J.; Bouzid G.; Misra M.; Pandey R.; Kaushal S.	Enhanced photocatalytic degradation and antimicrobial activities of biogenic Co3O4 nanoparticles mediated by fenugreek: sustainable strategies	2024	Materials Advances	5	20		8111	8131	10.1039/d4ma00795f	https://www.scopus.com/pages/publications/85205728265?origin=resultslist	Scopus
405	Singh G.; Kumar Y.; Husain S.	Nickel ferrite doped polyaniline composites: Synthesis and analysis for a high-performance symmetric pseudo-supercapacitor	2024	Energy Storage	6	1	e525			10.1002/est2.525	https://www.scopus.com/pages/publications/85173460940?origin=resultslist	Scopus
406	K P.; Shankar S.; Gaurav S.; Dwivedi Y.; Choubey R.K.; Kumar S.	Synthesis and characterization of Dy-doped Zn2SiAl2O4 nanophosphor for color modulation in advanced lighting systems	2024	Chemical Physics Impact	8		100469			10.1016/j.chphi.2024.100469	https://www.scopus.com/pages/publications/85184743273?origin=resultslist	Scopus
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408	Kumar A.; Hussain A.; Joseph A.J.; Goel S.; Singh N.S.; Singh U.	Di-/piezo-/ferro-electric and magnetic properties of Yttrium doped 0.49BiFeO3-0.20Pb(Mg1/3Nb2/3)O3-0.31PbTiO3 ternary ceramic at MPB	2024	Journal of Materials Science: Materials in Electronics	35	21	1448			10.1007/s10854-024-13206-y	https://www.scopus.com/pages/publications/85199158590?origin=resultslist	Scopus
409	Singh J.; Gautam S.; Singh M.B.; Singh P.; Kumar U.	Synthesis, DFT, Molecular Docking, and Antimicrobial Studies of New Indole-Thiosemicarbazone Ligand and Their Complexes with Fe(III), Co(II), Ni(II), Cu(II)	2024	Chemistry and Biodiversity	21	12	e202401301			10.1002/cbdv.202401301	https://www.scopus.com/pages/publications/85206945908?origin=resultslist	Scopus

410	Aalam S.M.; Sarvar M.; Sadiq M.; Alam M.T.; Ali J.	Ammonia Gas Sensing Characteristics of MWCNT and Bi-MWCNT Operating at Room Temperature	2024	Advanced Functional Materials for Sustainable Environments				73	77	10.1007/978-3-031-62620-3_7	https://www.scopus.com/pages/publications/105001783410?origin=resultslist	Scopus
411	Saraswat V.; Singh P.	Exploring the photocatalytic efficacy of carbonaceous materials in drug degradation: a contemporary review	2024	Chemical Papers	78	9		5169	5190	10.1007/s11696-024-03442-1	https://www.scopus.com/pages/publications/85190683714?origin=resultslist	Scopus
412	Krupanidhi S.B.; Sharma A.; Singh A.K.; Tuli V.	Preface	2024	Springer Proceedings in Materials	37			xi	xii		https://www.scopus.com/pages/publications/85181710521?origin=resultslist	Scopus
413	Gupta R.; Rana L.; Verma M.; Sharma A.; Tomar M.; Chowdhuri A.	PZT based dual energy harvester using chemical solution deposition technique	2024	Journal of Magnetism and Magnetic Materials	600		172152			10.1016/j.jmmm.2024.172152	https://www.scopus.com/pages/publications/85193685784?origin=resultslist	Scopus
414	Kumar R.; Chawla J.; Saini S.; Singh P.; Maharia R.S.	Box-Behnken Design for Mitigation of Cadmium Bivalent Ions from Aqueous Medium	2024	Chemistry and Biodiversity	2024		e202401043			10.1002/cbdv.202401043	https://www.scopus.com/pages/publications/85204060229?origin=resultslist	Scopus
415	Gupta A.; Kumar A.; Surbhi; Srivastava M.P.; Rana D.K.	Facile Growth of Zinc Oxysulfide Nano Thin Film-based Visible Light Photosensor by Hydrothermal Method	2024	ECS Journal of Solid State Science and Technology	13	7	77003			10.1149/2162-8777/ad6036	https://www.scopus.com/pages/publications/85199009783?origin=resultslist	Scopus
416	Kumar R.; Sahoo S.; Pandey R.; Joanni E.; Yadav R.M.	Electromagnetic irradiation-assisted synthesis, exfoliation and modification of graphene-based materials for energy storage and sensing applications	2024	Materials Science and Engineering R: Reports	161		100860			10.1016/j.mser.2024.100860	https://www.scopus.com/pages/publications/85205912207?origin=resultslist	Scopus
417	Kaura R.; Rajput N.	Future–Spot Relationship in Commodity Market: A Comparison Across Commodity Segments in India	2024	Global Business Review	25	5		1314	1335	10.1177/09721509211017291	https://www.scopus.com/pages/publications/85107621024?origin=resultslist	Scopus

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419	Jain P.; Shankar S.; Thakur O.P.	Advancements in multiferroic, dielectric, and impedance properties of copper-yttrium co-doped cobalt ferrite for hydroelectric cell applications	2024	Journal of Physics Condensed Matter	36	29	295201			10.1088/1361-648X/ad266c	https://www.scopus.com/pages/publications/85190958957?origin=resultslist	Scopus
420	Mehrotra S.; Gupta M.; Dujearic-Stephane K.; Kumar A.; Singh P.; Bharti B.; Mathuriya A.S.; Bocchetta P.; Kumar Y.	Functional biochar derived from Desmostachya bipinnata for the application in energy storage/conversion devices	2024	Biomass Conversion and Biorefinery	14	15		17263	17275	10.1007/s13399-023-03991-7	https://www.scopus.com/pages/publications/85151563078?origin=resultslist	Scopus
421	Verma R.; Dhingra G.; Singh G.; Dureja N.; Malik A.K.	Amino-Functionalized Metal Organic Framework-Based Dispersive Micro-Solid-Phase Extraction Coupled With HPLC for Sensitive Quantification of Bisphenol A and Alkyl Phenols in Aqueous Samples	2024	Separation Science Plus	7	10	e202400145			10.1002/sscp.202400145	https://www.scopus.com/pages/publications/85199972379?origin=resultslist	Scopus
422	Aslam M.; Pandey G.; Deshwal N.; Kumar A.; Kumari K.; Bahadur I.; Singh P.; Mohammad F.; Abdullah Soleiman A.	Study the solubility of pharmaceutical ingredients and their eutectic mixtures: An in-depth density functional theory and molecular dynamics simulations approaches	2024	Journal of Molecular Liquids	397		124070			10.1016/j.molliq.2024.124070	https://www.scopus.com/pages/publications/85188250041?origin=resultslist	Scopus
423	Verma O.N.; Yadav A.; Pandey R.; Jire L Hmar J.; Kumar V.; Singh P.	Structural implications of ionic conduction in LaAlO3–Ce0.8Gd0.2O2-δ composite solid electrolyte	2024	Ceramics International	50	19		35337	35345	10.1016/j.ceramint.2024.06.343	https://www.scopus.com/pages/publications/85197024176?origin=resultslist	Scopus
424	Sharma A.K.; Sharma R.; Pani B.; Sarkar A.; Tripathi M.	Engineering the future with hydrogels: advancements in energy storage devices and biomedical technologies	2024	New Journal of Chemistry	48	23		10347	10369	10.1039/d4nj00881b	https://www.scopus.com/pages/publications/85194903176?origin=resultslist	Scopus
425	Mittal S.; Kumar G.; Tyagi B.K.	Relative versions of star-Menger property	2024	Mathematica Slovaca	74	4		1001	1010	10.1515/ms-2024-0073	https://www.scopus.com/pages/publications/85201700982?origin=resultslist	Scopus

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427	Bocchetta P.; Othman A.; Gupta M.; Andriani G.; Martin P.; Kumar Y.; Joly N.; Sacco P.; Sufyan Javed M.	Chitosan in electrochemical (bio)sensors: nanostructuring and methods of synthesis	2024	European Polymer Journal	213		113092			10.1016/j.eurpolymj.2024.113092	https://www.scopus.com/pages/publications/85193076475?origin=resultslist	Scopus
428	Aslam M.; Pandey G.; Pant B.N.	One-pot synthesis of biologically active oxazole, isoxazole, and pyranopyrazoles—an overview	2024	Green Approaches in Medicinal Chemistry for Sustainable Drug Design: Applications				411	431	10.1016/B978-0-443-16166-7.00018-9	https://www.scopus.com/pages/publications/85205984607?origin=resultslist	Scopus
429	Nivedita; Agrawal S.; Kumar T.; Kumar K.; Sharma M.K.; Mishra V.N.	Trapezoidal neutrosophic teaching learning-based optimization in enhancing accuracy of diabetes prognosis	2024	Results in Control and Optimization	17		100464			10.1016/j.rico.2024.100464	https://www.scopus.com/pages/publications/85204998900?origin=resultslist	Scopus
430	Jharwal S.; Gupta A.; Kar M.; Verma V.K.; Kumar A.	Exploring the influence of pH on structural and magnetic properties of lead-free double perovskite, La2CoFeO6 nanoparticles	2024	Physica Scripta	99	10	1059c6			10.1088/1402-4896/ad7a3b	https://www.scopus.com/pages/publications/85205505572?origin=resultslist	Scopus
431	Bahadur I.; Singh P.; Siddique J.A.; Jawaid M.	Deep Eutectic Solvents	2024	Deep Eutectic Solvents				1	300	10.1016/C2023-0-00046-2	https://www.scopus.com/pages/publications/85218384115?origin=resultslist	Scopus
432	Singh J.P.; Sharma A.; Tomar M.; Chowdhuri A.	UV Irradiated MoO3 thin film for Sensing of Dibutyl Sulfide: A Mustard Gas Simulant	2024	Proceedings of IEEE Sensors						10.1109/SENSORS60989.2024.10784939	https://www.scopus.com/pages/publications/85215322963?origin=resultslist	Scopus

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434	Kumar A.; Khan A.; Abdullah A.	Fibonacci Wavelet Collocation Method for Solving Dengue Fever SIR Model	2024	Mathematics	12	16	2565			10.3390/math12162565	https://www.scopus.com/pages/publications/85202460038?origin=resultslist	Scopus
435	Kotnala R.K.; Kaushik A.S.; Subramanian S.S.; Vishwakarma A.K.	Advanced Functional Materials for Sustainable Environments	2024	Advanced Functional Materials for Sustainable Environments				1	298	10.1007/978-3-031-62620-3	https://www.scopus.com/pages/publications/105001778831?origin=resultslist	Scopus
436	Kumar M.; Sharma H.; Nair N.; Verma A.; Kumar J.; Suleman M.; Singh M.S.A.K.; Maharia R.S.; Prashant B.L.; Kumar Y.	NaCMC-Based Biopolymer Composite Electrolytes for Supercapacitor Applications	2024	Advanced Functional Materials for Sustainable Environments				229	237	10.1007/978-3-031-62620-3_21	https://www.scopus.com/pages/publications/105001756944?origin=resultslist	Scopus
437	Shagolsem B.S.; Singh N.H.; Leishangthem N.; Singh N.R.; Singh N.P.; Singh N.M.	Plant-synthesis of co-doped tin dioxide nanocomposite with magnetic activity and its photocatalytic performance assessment on dyes and pesticides	2024	Ceramics International	50	24		54420	54437	10.1016/j.ceramint.2024.10.297	https://www.scopus.com/pages/publications/85207726696?origin=resultslist	Scopus
438	Khan J.; Rani A.; Aslam M.; Maharia R.S.; Pandey G.; Nand B.	Exploring triazole-based drugs: Synthesis, application, FDA approvals, and clinical trial updates–A comprehensive review	2024	Tetrahedron	162		134122			10.1016/j.tet.2024.134122	https://www.scopus.com/pages/publications/85197552498?origin=resultslist	Scopus
439	Singh S.; Pandey R.; Gautam G.; Singh A.K.; Singh B.P.; Dhaiya A.; Singh P.	Investigation of Dielectric and Electrical Behaviour of Y2Ti2O7 Pyrochlore	2024	Springer Proceedings in Materials	37			235	244	10.1007/978-981-99-6766-7_21	https://www.scopus.com/pages/publications/85178942489?origin=resultslist	Scopus

440	Chaudhary A.K.; Das S.; Narang P.; Bhattacharjee A.; Das M.K.	Taming Non-autonomous Chaos in Duffing System Using Small Harmonic Perturbation	2024	Lecture Notes in Networks and Systems	953 LNNS			112	125	10.1007/978-3-031-56304-1_7	https://www.scopus.com/pages/publications/85190822262?origin=resultslist	Scopus
441	Yogi S.; Kumar A.; Kumar P.; Kumar V.; Zulfequar M.; Jain V.K.	Trace level sensitivity and selectivity of room temperature NH3 gas sensors based on RGO/ZnO@SiNWs heterostructure	2024	Physica E: Low-Dimensional Systems and Nanostructures	157		115864			10.1016/j.physe.2023.115864	https://www.scopus.com/pages/publications/85178653990?origin=resultslist	Scopus
442	Kumar A.; Thakur V.N.; Kumar A.; Singh V.; Dhaka A.; Dhaka R.S.	Dielectric behavior and impedance spectroscopy of Niobium substituted Lanthanum based orthovanadates at high temperatures	2024	Ceramics International	50	4		6735	6744	10.1016/j.ceramint.2023.12.015	https://www.scopus.com/pages/publications/85179159153?origin=resultslist	Scopus
443	Sharma U.; Raman A.P.S.; Jain P.; Singh P.	Graphene Field-Effect Transistors for Cancer Diagnostics	2024	Biosensors Based on Graphene, Graphene Oxide and Graphynes for Early Detection of Cancer				203	210	10.1201/9781003491361-12	https://www.scopus.com/pages/publications/85217289222?origin=resultslist	Scopus
444	Yadav S.; Prajapat A.; Aslam M.; Kumar S.; Kabane B.; Bahadur I.; Rahaman M.; Singh P.; Singh T.	Insights into DES Stability and Reactivity with Carboxylic Acids: A Computational Approach	2024	Journal of Computational Biophysics and Chemistry	23	10		1303	1323	10.1142/S2737416524500443	https://www.scopus.com/pages/publications/85206513918?origin=resultslist	Scopus
445	Kumar R.; Pandey R.; Joanni E.; Savu R.	Laser-induced and catalyst-free formation of graphene materials for energy storage and sensing applications	2024	Chemical Engineering Journal	497		154968			10.1016/j.cej.2024.154968	https://www.scopus.com/pages/publications/85201722864?origin=resultslist	Scopus
446	Sarvar M.; Raza M.M.H.; Aalam S.M.; Sadiq M.; Khan M.S.; Ali J.	One-Pot Preparation of Fe/Cu Catalytic Solution for the Growth of Carbon Nanotubes for Use in Gas Sensor and Field Emission Devices	2024	Springer Proceedings in Physics	306			403	410	10.1007/978-981-97-1571-8_48	https://www.scopus.com/pages/publications/85197455175?origin=resultslist	Scopus

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448	Raman A.P.S.; Singh S.Y.M.B.; Bahadur I.; Kaushik N.K.; Singh P.; Kumari K.	Carbon Nanotubes and Its Composites in Sensing of Drugs and Pesticides	2024	Advanced Functional Materials for Sustainable Environments				267	284	10.1007/978-3-031-62620-3_24	https://www.scopus.com/pages/publications/105001756800?origin=resultslist	Scopus
449	Meena H.; Varshney D.; Mal S.; Prakash J.; Castagna R.; Singh G.	Effect of CsPbBr3 perovskite quantum dots on molecular alignment, dielectric and memory effect of a cyanobiphenyl based liquid crystal	2024	Journal of Molecular Liquids	416		126480			10.1016/j.molliq.2024.126480	https://www.scopus.com/pages/publications/85209101764?origin=resultslist	Scopus
450	Kumar R.; Rai P.M.; Chourasia N.K.; Kumar M.; Singh A.K.; Katti A.; Chourasia R.K.	Electronic and Optical Properties of Transparent Conducting Perovskite SrNbO3: Ab Initio Study	2024	Springer Proceedings in Materials	37			155	172	10.1007/978-981-99-6766-7_14	https://www.scopus.com/pages/publications/85178929692?origin=resultslist	Scopus
451	Imam M.; Adam S.; Dev S.; Nesa N.	Air quality monitoring using statistical learning models for sustainable environment	2024	Intelligent Systems with Applications	22		200333			10.1016/j.iswa.2024.200333	https://www.scopus.com/pages/publications/85186264222?origin=resultslist	Scopus
452	Choudhary J.S.; Grover K.; Tomar M.; Sharma A.; Jha R.	Self-aligned shadow masking for antimony telluride growth: Novel advancements in single-leg thermoelectric array design	2024	Materials Chemistry and Physics	326		129752			10.1016/j.matchemphys.2024.129752	https://www.scopus.com/pages/publications/85200589567?origin=resultslist	Scopus
453	Nujud Badawi M.; Agrawal N.; Kumar Y.; Khan M.; Hatshan M.R.; Alayyaf A.A.; Adil S.F.	Cellulose nanocomposite tough hydrogels: synergistic self-healing, adhesive and strain-sensitive properties	2024	Polymer International	73	9		748	760	10.1002/pi.6644	https://www.scopus.com/pages/publications/85194821364?origin=resultslist	Scopus
454	Yadav S.; Jain P.; Singh P.	Solar Energy Concentrator Research: Past and Present	2024	Solar Energy Concentrators: Essentials and Applications				121	136	10.1002/9781394204533.ch6	https://www.scopus.com/pages/publications/85210715286?origin=resultslist	Scopus

455	Sharma R.; Bahadur I.; Katata-Seru L.; Mohammad F.; Singh S.K.; Singh P.; Kumar V.	Structural elucidation of ternary mixtures of L-valine/glycyl-L-valine and water + 1-decyl-3-methylimidazolium bromide: Apparent molar properties at infinite dilution and expansivities	2024	Asia-Pacific Journal of Chemical Engineering	19	4	e3086			10.1002/apj.3086	https://www.scopus.com/pages/publications/85192057823?origin=resultslist	Scopus
456	Singh N.P.; Devi Y.R.	Influence of reaction aging time on the crystal structure, morphology, and photoluminescence properties of Sm3+-doped CdMoO4 phosphor	2024	Journal of Nanoparticle Research	26	11	259			10.1007/s11051-024-06177-y	https://www.scopus.com/pages/publications/85209810423?origin=resultslist	Scopus
457	Singh Raman A.P.; Jain P.; Singh P.	Microplastics: Properties, Effect on the Environment and Removal Methods	2024	Toxic Effects of Micro- and Nanoplastics: Environment, Food and Human Health				125	137		https://www.scopus.com/pages/publications/85199213262?origin=resultslist	Scopus
458	Dabas S.; Kumar M.; Singh D.V.; Kumar P.; Dwivedi D.K.; Srivastava A.N.	Recent Advances in Perovskite Nanomaterials for Sensing Applications	2024	Journal of the Electrochemical Society	171	11	117529			10.1149/1945-7111/ad9359	https://www.scopus.com/pages/publications/85210731740?origin=resultslist	Scopus
459	Rawat K.; Vishwakarma A.K.; Jha K.; Tuli V.	Tm3+/Dy3+/Tb3+ Doped Barium Zinc Phosphate Glasses for Multicolor Emission	2024	Springer Proceedings in Materials	37			257	266	10.1007/978-981-99-6766-7_23	https://www.scopus.com/pages/publications/85178931672?origin=resultslist	Scopus
460	Yadav N.; Khare A.; Kumar M.	Solar brilliance unleashed: Maximizing performance of novel carbon-based Rb-doped CsSnI3 perovskite solar cells by gradient doping	2024	Materials Today Sustainability	28		100955			10.1016/j.mtsust.2024.100955	https://www.scopus.com/pages/publications/85201457169?origin=resultslist	Scopus
461	Raj A.; Kumar M.; Singh D.V.; Anshul A.	A critical review on transition metal dichalcogenides (TMDs): An efficiency booster for perovskite solar cells	2024	FlatChem	44		100629			10.1016/j.flatc.2024.100629	https://www.scopus.com/pages/publications/85186334365?origin=resultslist	Scopus

462	Sehgal P.; Patel K.	Triband Dual Port H-SRR MIMO Antenna for WLAN/WiMAX/Wi-Fi 6 Applications	2024	Progress In Electromagnetics Research M	123			35	43	10.2528/PIERM23102402	https://www.scopus.com/pages/publications/85183195301?origin=resultslist	Scopus
463	Aslam M.; Khan J.; Mishra V.K.; Singh R.; Pandey G.; Nand B.	Graphene Oxide and Graphyne Scalability and Manufacturing Challenges	2024	Biosensors Based on Graphene, Graphene Oxide and Graphynes for Early Detection of Cancer				211	225	10.1201/9781003491361-13	https://www.scopus.com/pages/publications/85217342739?origin=resultslist	Scopus
464	Singh J.P.; Sharma A.; Tomar M.; Chowdhuri A.	WO3 and WO3-SnO2 Composite-Based Sensors for Low-Temperature Detection of NO2 Gas	2024	Journal of Electronic Materials	53	11		6688	6699	10.1007/s11664-024-11381-6	https://www.scopus.com/pages/publications/85203052582?origin=resultslist	Scopus
465	Raman A.P.S.; Aslam M.; Singh P.; Pandey G.; Jain P.; Kumari K.	Solid and Liquid Waste Management in Urban and Rural Areas: Current Practices and Future Perspectives	2024	Integrated Waste Management: A Sustainable Approach from Waste to Wealth				141	157	10.1007/978-981-97-0823-9_7	https://www.scopus.com/pages/publications/85207592081?origin=resultslist	Scopus
466	Srivastava A.; Sharma A.K.; Jha P.K.; Kumar M.; Chourasia N.K.; Chourasia R.K.	Parametric optimization for the performance analysis of novel hybrid organo-perovskite solar cell via SCAPS-1D simulation	2024	Heliyon	10	19	e38169			10.1016/j.heliyon.2024.e38169	https://www.scopus.com/pages/publications/85204893928?origin=resultslist	Scopus
467	Raman A.P.S.; Singh M.B.; Vishvakarma V.K.; Kumari K.; Jain P.; Singh P.	Exploring Bioinspired Designed DES for Their Acetylene Sensing Capabilities via DFT Calculations and Molecular Dynamics Simulations	2024	Journal of Solution Chemistry	53	12		1685	1700	10.1007/s10953-024-01407-2	https://www.scopus.com/pages/publications/85201600175?origin=resultslist	Scopus
468	Saini P.; Tarique H.; Kumar H.; Singh A.K.; Pandey R.; Singh P.	Synthesis and Characterizations of Hexagonal Perovskite-Related Oxide for Solid Electrolyte Application	2024	Springer Proceedings in Materials	37			1	14	10.1007/978-981-99-6766-7_1	https://www.scopus.com/pages/publications/85178917015?origin=resultslist	Scopus

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470	Neha; Sharma P.; Yadav P.; Rana D.K.; Pal P.S.; Kumar H.; Kumar S.	Synthesis of core-shell NiO/BFO nanocomposites for microwave absorbing applications	2024	Ceramics International	50	7		11697	11706	10.1016/j.ceramint.2024.01.074	https://www.scopus.com/pages/publications/85181900851?origin=resultslist	Scopus
471	Malik P.; Duhan S.; Malik R.	A high-performance humidity sensor based on 3D porous SnO2-encapsulated MCM-48 for real-time breath monitoring and contactless gesture detection	2024	Materials Advances	5	6		2510	2525	10.1039/d3ma00866e	https://www.scopus.com/pages/publications/85184589593?origin=resultslist	Scopus
472	Kumar S.; Kumar A.; Gupta P.; Prasad R.P.; Kumar P.	Synchronization of Chaotic Satellite Systems with Fractional Derivatives Analysis Using Feedback Active Control Techniques	2024	Symmetry	16	10	1319			10.3390/sym16101319	https://www.scopus.com/pages/publications/85207666593?origin=resultslist	Scopus
473	Yadav C.S.; Azad I.; Khan A.R.; Singh P.	Carbon Allotropes Past to Present Aspects	2024	Biosensors Based on Graphene, Graphene Oxide and Graphynes for Early Detection of Cancer				1	23	10.1201/9781003491361-1	https://www.scopus.com/pages/publications/85217303180?origin=resultslist	Scopus
474	Goel N.; Kumar P.; Bhagat S.	Transition-Metal-Free Chemo-Selective C−C/C−N Bond Formation Reaction for the Highly Efficient Synthesis of Pyrazoles, Pyrazolo fused Pyrimidines and Pyridines	2024	European Journal of Organic Chemistry	27	37	e202400492			10.1002/ejoc.202400492	https://www.scopus.com/pages/publications/85202983343?origin=resultslist	Scopus
475	Jharwal S.; Gupta A.; Kar M.; Kumar A.	Low temperature magnetic and structural properties of Sr-doped La2CoMnO6 (La2-xSrxCoMnO6: $0 \leq x \leq 0.08$) double perovskite nanoparticles	2023	Journal of Magnetism and Magnetic Materials	587		171308			10.1016/j.jmmm.2023.171308	https://www.scopus.com/pages/publications/85173143228?origin=resultslist	Scopus

476	Rajput N.; Sharma U.; Kaur B.; Tongkachok K.; Dornadula V.H.R.; Sisodia D.R.	Ethical behavior a thought for defining loyalty in an offline	2023	International Journal of System Assurance Engineering and Management	14	6		2088	2094	10.1007/s13198-023-01970-9	https://www.scopus.com/pages/publications/85163397452?origin=resultslist	Scopus
477	Singh R.; Gautam M.; Luthra V.; Subramanian S.	Exploration of the Structural, Dielectric, Ferroelectric, and Piezoelectric Properties in Non-stoichiometric Sr1−XBi2+2X/3Nb2O9 Ceramics	2023	ECS Journal of Solid State Science and Technology	12	10	103005			10.1149/2162-8777/acff82	https://www.scopus.com/pages/publications/85180938254?origin=resultslist	Scopus
478	Kumari K.; Singh M.B.; Tomar N.; Kumar A.; Kumar V.; Dabodhia K.L.; Singh P.	Adsorption of pesticides using graphene oxide through computational and experimental approach	2023	Journal of Molecular Structure	1291		136043			10.1016/j.molstruc.2023.136043	https://www.scopus.com/pages/publications/85162913726?origin=resultslist	Scopus
479	Kumar A.; Hussain A.; Singh U.; Singh N.S.	Dispersive Dielectric Behaviour of Ternary 0.49BiFeO3-0.20Pb(Mg1/3Nb2/3)O3-0.31PbTiO3 (BF-PMN-PT) Ceramic Near Morphotropic Phase Boundary Using a Modified Debye Model	2023	Journal of Electronic Materials	52	11		7596	7606	10.1007/s11664-023-10682-6	https://www.scopus.com/pages/publications/85169541507?origin=resultslist	Scopus
480	Siddiquee A.; Parray Z.; Anand A.; Tasneem S.; Hasan N.; Alamier W.M.; Ageeli A.A.; Wani F.A.; Singh P.; Patel R.	Binding Study of Antibacterial Drug Ciprofloxacin with Imidazolium-Based Ionic Liquids Having Different Halide Anions: A Spectroscopic and Density Functional Theory Analysis	2023	ACS Omega	8	45		42699	42710	10.1021/acsomega.3c05100	https://www.scopus.com/pages/publications/85178370286?origin=resultslist	Scopus
481	Tripathi M.; Kumar Dwivedi B.; Kumar Y.; Bobade S.M.; Kumar A.	Synthesis and performance assessment of silica dispersed nano-composite polymer gel electrolyte for high-performance solid-state supercapacitors	2023	Journal of Electroanalytical Chemistry	948		117797			10.1016/j.jelechem.2023.117797	https://www.scopus.com/pages/publications/85172008346?origin=resultslist	Scopus
482	Mittal A.; Pal K.; Aggarwal R.	The Analysis of the Photogravitational R4BP Under the Combined Effect of Stokes Drag and Oblateness with Variable Mass	2023	Journal of the Astronautical Sciences	70	6	52			10.1007/s40295-023-00414-7	https://www.scopus.com/pages/publications/85177207505?origin=resultslist	Scopus

483	Kumar A.; Sharma A.; Sharma M.; Singh V.; Dhaka A.; Dhaka R.S.	Structural, vibrational and electronic properties of Nb substituted orthovanadates LaV1−xNbxO4	2023	Journal of Alloys and Compounds	966		171506			10.1016/j.jallcom.2023.171506	https://www.scopus.com/pages/publications/85166191311?origin=resultslist	Scopus
484	Choudhary J.S.; Grover K.; Tomar M.; Sharma A.; Jha R.	Enhancing the Thermoelectric Performance of Bismuth Telluride through Silver Doping	2023	Indian Journal of Engineering and Materials Sciences	30	5		685	688	10.56042/ijems.v30i5.6883	https://www.scopus.com/pages/publications/85180853491?origin=resultslist	Scopus
485	Kumar M.; Kumar A.; Sharma S.; Chourasia R.K.; Kumar R.; Dabas S.; Singh A.; Anshul A.	Investigations on low temperature magnetic and magnetoelectric properties of multiferroic-NiO nanocomposites	2023	Journal of Alloys and Compounds	965		171353			10.1016/j.jallcom.2023.171353	https://www.scopus.com/pages/publications/85165700955?origin=resultslist	Scopus
486	Prajapati A.S.; Ajmal N.; Jahan I.	Associated Prime Ideal and Minimal Prime Ideal of an Ideal of an L-Subring	2023	Fuzzy Information and Engineering	15	4		324	334	10.26599/FIE.2023.9270023	https://www.scopus.com/pages/publications/85181873096?origin=resultslist	Scopus
487	Álvarez-Montaño V.E.; Kumar M.; Sharma S.; Kumar Chourasia R.; Kumar P.; Siqueiros J.M.; Raymond Herrera O.	A recent look at high-entropy ceramics based on doping engineering/technology and the future scope of their novel applications	2023	Materials Letters	349		134785			10.1016/j.matlet.2023.134785	https://www.scopus.com/pages/publications/85162985354?origin=resultslist	Scopus
488	Raman A.P.S.; Tomar J.; Jain P.; Kumar A.; Singh P.; Kumari K.	Exploring the Molecular Interactions between Acyclovir and Hormones: Insights from Density Functional Theory Calculations	2023	ChemistrySelect	8	40	e202303320			10.1002/slct.202303320	https://www.scopus.com/pages/publications/85174908597?origin=resultslist	Scopus
489	Khan J.; Rani A.; Aslam M.; Pandey G.; Nand Pant B.	A review on the synthesis and application of naphthoquinone-based drugs	2023	Results in Chemistry	6		101138			10.1016/j.rechem.2023.101138	https://www.scopus.com/pages/publications/85174415476?origin=resultslist	Scopus
490	Sao A.K.; Sharma A.; Verma M.; Tomar M.; Chowdhuri A.	Development of CdS-SnO2 hybrid nanocomposite thin films for trace level detection of NO2 gas	2023	Sensors and Actuators B: Chemical	393		134198			10.1016/j.snb.2023.134198	https://www.scopus.com/pages/publications/85164514998?origin=resultslist	Scopus
491	Gaurav S.; Shankar S.; Mishra A.; Singh S.P.	Equation of State and Thermal Properties of Bulk Metallic Glass under High Compressions	2023	Metallofizika i Noveishie Tekhnologii	45	10		1151	1164	10.15407/mfint.45.10.1151	https://www.scopus.com/pages/publications/85180866758?origin=resultslist	Scopus

492	Avirdi E.; Paumo H.K.; Kamdem B.P.; Singh M.B.; Kumari K.; Katata-Seru L.; Bahadur I.	Imidazolium-Based Ionic Liquid-Assisted Silver Nanoparticles and Their Antibacterial Activity: Experimental and Density Functional Theory Studies	2023	ACS Omega	8	45		42976	42986	10.1021/acsomega.3c06171	https://www.scopus.com/pages/publications/85178363062?origin=resultslist	Scopus
493	Gupta M.; Kumar A.; Sharma S.; Bharti; Ghamouss F.; Singh P.; Chawla V.; Kumar A.; Kumar Y.	Study of electrochemical properties of activated carbon electrode synthesized using bio-waste for supercapacitor applications	2023	Biomass Conversion and Biorefinery	13	15		14059	14070	10.1007/s13399-021-02271-6	https://www.scopus.com/pages/publications/85123187435?origin=resultslist	Scopus
494	Patanjali N.; Kumar R.; Chopra I.; Patanjali P.; Kaushik R.; Sharma S.K.	Biosynthesized silver nanoparticles using green chemistry approach and its evaluation as antifungal agent	2023	Indian Journal of Chemical Technology	30	6		741	745	10.56042/ijct.v30i6.43	https://www.scopus.com/pages/publications/85179363990?origin=resultslist	Scopus
495	Berwal U.; Singh V.; Sharma R.; Kulriya P.K.; Kumar A.	Influence of Al3+ co-doped ions for the improvement of orange-reddish light emitting photoluminescence characteristics of Gd2Ti2O7:Eu3+ pyrochlore	2023	Ceramics International	49	21		34015	34024	10.1016/j.ceramint.2023.08.098	https://www.scopus.com/pages/publications/85167988418?origin=resultslist	Scopus
496	Prajapati A.S.; Ajmal N.; Jahan I.	Prime Ideal, Semiprime Ideal, and Radical of an Ideal of an L-Subring	2023	Fuzzy Information and Engineering	15	4		313	323	10.26599/FIE.2023.9270022	https://www.scopus.com/pages/publications/85181896423?origin=resultslist	Scopus
497	Jain S.; Dubey K.K.	Employing the Latin hypercube sampling to improve the NSGA III performance in multiple-objective optimization	2023	Asian Journal of Civil Engineering	24	8		3319	3330	10.1007/s42107-023-00712-3	https://www.scopus.com/pages/publications/85159698392?origin=resultslist	Scopus
498	Gupta V.; Malik R.; Kumar L.	Highly efficient and cost-effective polyaniline-based ammonia sensor on the biodegradable paper substrate at room temperature	2023	Materials Chemistry and Physics	310		128388			10.1016/j.matchemphys.2023.128388	https://www.scopus.com/pages/publications/85171618322?origin=resultslist	Scopus
499	Tarique H.; Shahid R.; Singh A.K.; Nokhwal R.; Dixit V.; Pandey R.	Structural and electrical properties of Ba3NbMoO8.5 (BNM) hexagonal perovskite for solid electrolyte application	2023	Applied Physics A: Materials Science and Processing	129	11	791			10.1007/s00339-023-07076-0	https://www.scopus.com/pages/publications/85174863657?origin=resultslist	Scopus

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501	Devi P.S.; Kant A.; Gaijon P.; Ghosh S.; Dheer N.; Kanojia R.; Singh P.; Ramananda Singh M.	Elsholtzia Griffithii as an eco-friendly anticorrosive inhibitor of Mild Steel under Acid Medium	2023	Materials Chemistry and Physics	303		127776			10.1016/j.matchemphys.2023.127776	https://www.scopus.com/pages/publications/85153034561?origin=resultslist	Scopus
502	Kubba R.; Kumar Singh M.; Jyoti; Yadav O.; Kumar A.	Förster resonance energy transfer (FRET) between CdSe quantum dots and ABA phosphorus(V) corroles	2023	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	291		122345			10.1016/j.saa.2023.122345	https://www.scopus.com/pages/publications/85146431510?origin=resultslist	Scopus
503	Sadiq M.; Khan M.A.; Sarvar M.; Raza M.M.H.; Aalam S.M.; Zulfequar M.; Ali J.	High electrochemical performance of rGO-CNTs composites as an electrode material for supercapacitors applications	2023	Hybrid Advances	3		100051			10.1016/j.hybadv.2023.100051	https://www.scopus.com/pages/publications/85195168135?origin=resultslist	Scopus
504	Singh M.B.; Bhagat P.; Jain P.; Singh P.	Exploration of DFT and TD-DFT computation to investigate the interaction between paracetamol and lithium or its compounds	2023	Journal of Molecular Liquids	383		122114			10.1016/j.molliq.2023.122114	https://www.scopus.com/pages/publications/85159759383?origin=resultslist	Scopus
505	Anuradha; Raj T.	Contribution of the Public Distribution System in Nutritional Intake among Poor and Non-poor Households: Evidence from Himachal Pradesh	2023	Indian Journal of Economics and Development	19	3		653	659	10.35716/IJED-22561	https://www.scopus.com/pages/publications/85173508234?origin=resultslist	Scopus
506	Shankar S.; Jayasimhadri M.; Thakur O.P.	Magnetoelectric ferrite-based composites	2023	Ferrite Nanostructured Magnetic Materials: Technologies and Applications				669	692	10.1016/B978-0-12-823717-5.00007-3	https://www.scopus.com/pages/publications/85161250355?origin=resultslist	Scopus

507	Verma A.K.; Dixit V.S.	Collaborative filtering-based recommendations against shilling attacks with particle swarm optimiser and entropy-based mean clustering	2023	International Journal of Information and Computer Security	20	01-Feb		133	144	10.1504/ijics.2023.128005	https://www.scopus.com/pages/publications/85147799027?origin=resultslist	Scopus
508	Kanojia R.; Jaiswal A.K.; Goswami A.; Bhagat S.	Development of a New Methodology for Extraction and Analysis of Pesticides, Drugs, Heavy Metals and Various Toxins from Viscera Samples	2023	Toxicology International	30	4		573	583	10.18311/ti/2023/v30i4/35082	https://www.scopus.com/pages/publications/85181910695?origin=resultslist	Scopus
509	Sharma S.; Kumar M.; Laref A.; Siqueiros J.M.; Herrera O.R.	Recent advances in interfacial engineering and band-gap tuning of perovskite multiferroic heterostructures for high performance photovoltaic applications	2023	Materials Letters	331		133490			10.1016/j.matlet.2022.133490	https://www.scopus.com/pages/publications/85141925947?origin=resultslist	Scopus
510	Kalra C.; Sharma S.; Kumar Chourasia R.; Kumar A.; Siyahjani Gultekin S.; Kumar M.	Effect of 'Mo' doping into BiMnO3 on structural, dielectric, and leakage current properties	2023	Materials Today: Proceedings						10.1016/j.matpr.2023.01.332	https://www.scopus.com/pages/publications/85147886805?origin=resultslist	Scopus
511	Singh Raman A.P.; Jain P.; Kumar A.; Singh P.; Kumari K.; Bahadur I.; Mohammad F.; Kaushik N.K.	Eutectic Mixtures to Enhance the Solubility of Active Pharmaceutical Ingredients: Density Functional Theory and Infrared Spectroscopy Approaches	2023	ChemistrySelect	8	25	e202300824			10.1002/slct.202300824	https://www.scopus.com/pages/publications/85165466786?origin=resultslist	Scopus
512	Gupta K.; Thakur O.P.; Kumar M.	Effect of A-Site Substitution on LaMnO3 Perovskite via Sr Ions for Energy Applications	2023	Journal of Electronic Materials	52	7		4279	4288	10.1007/s11664-023-10208-0	https://www.scopus.com/pages/publications/85146553246?origin=resultslist	Scopus
513	Kumar V.; Tyagi B.K.	Subgroups of products of para τ-discrete semitopological groups	2023	Filomat	37	7		2165	2172	10.2298/FIL2307165K	https://www.scopus.com/pages/publications/85148305825?origin=resultslist	Scopus
514	Sachan P.; Suraj M.S.; Aggarwal R.; Mittal A.; Asique M.C.	A Study of the Axisymmetric Restricted Five-Body Problem within the Frame of Variable Mass: The Concave Case	2023	Astronomy Reports	67	4		404	423	10.1134/S1063772923040030	https://www.scopus.com/pages/publications/85179848858?origin=resultslist	Scopus
515	Kumar M.; Kumar A.; Kumar S.; Khan Z.R.	Lead-Free Multiferroic BiFeO3 Based Sustainable Green Composites Applications, Opportunities and Future Challenges	2023	Sustainability of Green and Eco-friendly Composites				113	128	10.1201/9781003272625-9	https://www.scopus.com/pages/publications/85168478388?origin=resultslist	Scopus

516	Singh P.; Pandey R.; Singh P.	Influence of Mg-substitution on structural and electrical properties of ion-conducting Ca-doped tri-yttrium gallate	2023	International Journal of Applied Ceramic Technology	20	2		1103	1113	10.1111/ijac.14275	https://www.scopus.com/pages/publications/85142630300?origin=resultslist	Scopus
517	Raza M.M.H.; Sadiq M.; Zulfequar M.; Husain S.; Ali J.	Influence of power-dependent Argon gas plasma treatment on the electron field emission properties of carbon nanotube field-emitters	2023	Diamond and Related Materials	132		109627			10.1016/j.diamond.2022.109627	https://www.scopus.com/pages/publications/85144504945?origin=resultslist	Scopus
518	Kumar R.; Sahoo S.; Joanni E.; Pandey R.; Shim J.-J.	Vacancy designed 2D materials for electrodes in energy storage devices	2023	Chemical Communications	59	41		6109	6127	10.1039/d3cc00815k	https://www.scopus.com/pages/publications/85158913496?origin=resultslist	Scopus
519	Sharma A.K.; Chourasia N.K.; Jha P.K.; Kumar R.; Kumar M.; Chourasia R.K.	Characteristic Features and Performance Investigations of a PTB7:PC71BM/PFN:Br Pure Organic Solar Cell Using SCAPS-1D	2023	Journal of Electronic Materials	52	7		4302	4311	10.1007/s11664-022-10202-y	https://www.scopus.com/pages/publications/85146972603?origin=resultslist	Scopus
520	Bharati M.; Rana L.; Gupta R.; Sharma A.; Jha P.K.; Tomar M.	Realization of a DNA biosensor using inverted Lamb wave MEMS resonator based on ZnO/SiO2/Si/ZnO membrane	2023	Analytica Chimica Acta	1249		340929			10.1016/j.aca.2023.340929	https://www.scopus.com/pages/publications/85147899050?origin=resultslist	Scopus
521	Raza M.M.H.; Sadiq M.; Aalam S.M.; Sarvar M.; Zulfequar M.; Husain S.; Ali J.	Influence of the growth temperature on electron field-emission stability of the carbon nanotubes' field emitters	2023	Journal of Materials Research	38	5		1435	1447	10.1557/s43578-023-00904-2	https://www.scopus.com/pages/publications/85146683331?origin=resultslist	Scopus
522	Bansal D.; Joarder S.; Babu Singh M.; Kumari K.	Schiff base metal complexes: Structure and chemical, thermal, optical properties and mechanical structure-property relationships	2023	Structural and Biological Applications of Schiff Base Metal Complexes				1	12	10.1201/9781003291459-1	https://www.scopus.com/pages/publications/85163042897?origin=resultslist	Scopus
523	Jha P.K.; Chourasia N.K.; Srivastava A.; Sharma A.K.; Kumar R.; Sharma S.; Kumar M.; Chourasia R.K.	Study of Eco-Friendly Organic–Inorganic Heterostructure CH3NH3SnI3 Perovskite Solar Cell via SCAPS Simulation	2023	Journal of Electronic Materials	52	7		4321	4329	10.1007/s11664-023-10267-3	https://www.scopus.com/pages/publications/85148211930?origin=resultslist	Scopus

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525	Sinha A.; Sedai A.K.; Kumar A.; Nepal R.	Are Autocracies Bad for the Environment? Global Evidence from Two Centuries of Data	2023	Energy Journal	44	2		47	78	10.5547/01956574.44.2.asin	https://www.scopus.com/pages/publications/85165534237?origin=resultslist	Scopus
526	Imam M.; Adam S.; Agrawal (Garg) N.; Kumar S.; Gosain A.	An Ensemble Method for Categorizing Cardiovascular Disease	2023	Lecture Notes in Networks and Systems	756 LNNS			281	291	10.1007/978-981-99-5088-1_24	https://www.scopus.com/pages/publications/85174597852?origin=resultslist	Scopus
527	Vinod Kumar; Lal S.; Kumar S.; Jagdeva G.; Kumar P.; Verma A.; Kuzmin A.	Preparation of Ecofriendly Viable Packaging Films Based on Pectin and Agro-Waste: Thermal and Mechanical Studies by Design of Experiments Approach	2023	Polymer Science - Series A						10.1134/S0965545X23600448	https://www.scopus.com/pages/publications/85179354236?origin=resultslist	Scopus
528	Raza M.M.H.; Sadiq M.; Zulfequar M.; Husain S.; Ali J.	The effects of Ar + N2 plasma power-based attachment of metal nanoparticles on the electron field emission properties of carbon nanotubes	2023	Journal of Physics and Chemistry of Solids	178		111309			10.1016/j.jpcs.2023.111309	https://www.scopus.com/pages/publications/85150055437?origin=resultslist	Scopus
529	Jain P.; Vishvakarma V.K.; Singh P.; Yadav S.; Kumar R.; Chandra S.; Kumar D.; Misra N.	Bioactive Thiosemicarbazone Coordination Metal Complexes: Synthesis, Characterization, Theoretical analysis, Biological Activity, Molecular Docking and ADME analysis**	2023	Chemistry and Biodiversity	20	8	e202300760			10.1002/cbdv.202300760	https://www.scopus.com/pages/publications/85165599296?origin=resultslist	Scopus
530	Sharma S.; Reygadas M.U.; Kumar M.; Cruz M.P.; Siqueiros J.M.; Herrera O.R.	Stability and physical properties of the K, Na and Nb doped BiFeO3 lead-free system synthesized by the solid state route	2023	Ceramics International	49	17		28720	28728	10.1016/j.ceramint.2023.06.130	https://www.scopus.com/pages/publications/85165681068?origin=resultslist	Scopus
531	Kumar P.; Goel N.; Bhagat S.	Emergence of Ag as a Catalyst of Choice for Fluorination and Trifluoromethylation Reactions	2023	ChemCatChem	15	18	e202300677			10.1002/cctc.202300677	https://www.scopus.com/pages/publications/85165101995?origin=resultslist	Scopus
532	Yadav M.; Kumar A.; Lal K.; Singh M.B.; Kumari K.	Facile synthesis, antimicrobial screening and docking studies of pyrrole-triazole hybrids as potential antimicrobial agents	2023	Research on Chemical Intermediates	49	4		1311	1326	10.1007/s11164-022-04948-7	https://www.scopus.com/pages/publications/85145835090?origin=resultslist	Scopus

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534	Kumar V.; Tyagi B.K.	On ωs-balanced semitopological groups	2023	Quaestiones Mathematicae	46	12		2577	2591	10.2989/16073606.2023.2177567	https://www.scopus.com/pages/publications/85149760938?origin=resultslist	Scopus
535	Gautam U.; Verma V.K.; Singh P.K.; Chandra Singh R.; Kumar M.	Solar cell capacitance simulation and experimental photovoltaic performance analysis of perovskite solar cell based on CsGeI3	2023	Materials Today: Proceedings						10.1016/j.matpr.2023.03.496	https://www.scopus.com/pages/publications/85151408049?origin=resultslist	Scopus
536	Veio Pou K.B.; Kamei A.	An emerging literary tradition: An overview of writings in english from the northeast	2023	From Canon to Covid: Transforming English Literary Studies in India. Essays in Honour of GJV Prasad				242	254	10.4324/9781003399926-23	https://www.scopus.com/pages/publications/85163953739?origin=resultslist	Scopus
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538	Kabanda M.M.; Bahadur I.; Singh P.	Antioxidant and anticancer properties of plant-based bioactive flavonoids cardamonin and alpinetin: A theoretical insight from •OOH antiradical and Cu (II) chelation mechanisms	2023	Journal of Physical Organic Chemistry	36	2	e4428			10.1002/poc.4428	https://www.scopus.com/pages/publications/85137920575?origin=resultslist	Scopus
539	Kumar A.; Adalati R.; Sharma M.; Choudhary N.; Kumar K.S.; Hurtado L.; Jung Y.; Kumar Y.; Thomas J.; Chandra R.	Self-assembled zinc oxide nanocauliflower and reduced graphene oxide nickle-foam based noval asymmetric supercapacitor for energy storage applications	2023	Materials Today Communications	34		105362			10.1016/j.mtcomm.2023.105362	https://www.scopus.com/pages/publications/85146267763?origin=resultslist	Scopus

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541	Pratap R.; Kumar S.; Samsudin R.A.; Latif F.A.; Singh R.C.; Kumar M.	Polycrystalline Solid–Solid Composite [(NH4)2C2O4·1H2O:Al2O3)]: Electrical and Structural Detail	2023	Macromolecular Symposia	407	1	2E+06			10.1002/masy.202200120	https://www.scopus.com/pages/publications/85148545416?origin=resultslist	Scopus
542	Sewariya S.; Sehrawat H.; Mishra N.; Singh M.B.; Singh P.; Kukreti S.; Chandra R.	Comparative assessment of 9-bromo noscapine ionic liquid and noscapine: Synthesis, in-vitro studies plus computational & biophysical evaluation with human hemoglobin	2023	International Journal of Biological Macromolecules	247		125791			10.1016/j.ijbiomac.2023.125791	https://www.scopus.com/pages/publications/85165008232?origin=resultslist	Scopus
543	Meena O.P.; Suraj M.S.; Aggarwal R.; Mittal A.; Asique M.C.	The study of periodic orbits in the spatial collinear restricted four-body problem with non-spherical primaries	2023	Nonlinear Dynamics	111	5		4283	4311	10.1007/s11071-022-08085-z	https://www.scopus.com/pages/publications/85142278285?origin=resultslist	Scopus
544	Chopra A.B.; Dixit V.S.	Detecting biased user-product ratings for online products using opinion mining	2023	Journal of Intelligent Systems	32	1	A118			10.1515/jisys-2022-9030	https://www.scopus.com/pages/publications/85146991751?origin=resultslist	Scopus
545	Sehgal P.; Patel K.	Dual-Band Hexagonal SRR Antennas and Their Applications in SIMO and MISO-Based WLAN/WiMAX Systems	2023	Progress In Electromagnetics Research B	99			139	157	10.2528/PIERB22121504	https://www.scopus.com/pages/publications/85156182021?origin=resultslist	Scopus
546	Kanojia R.; Mishra A.; Jaiswal A.K.; Bhagat S.	ANALYSIS AND ANALYTICAL ASPECTS OF TOLUENE IN INHALANT OF ABUSE IN LIVING AND DEAD: A REVIEW	2023	Journal of South India Medicolegal Association	15	1		94	113		https://www.scopus.com/pages/publications/85162695694?origin=resultslist	Scopus

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549	Yadav M.; Lal K.; Kumar A.; Singh P.; Vishvakarma V.K.; Chandra R.	Click reaction inspired synthesis, antimicrobial evaluation and in silico docking of some pyrrole-chalcone linked 1,2,3-triazole hybrids	2023	Journal of Molecular Structure	1273		134321			10.1016/j.molstruc.2022.134321	https://www.scopus.com/pages/publications/85140732186?origin=resultslist	Scopus
550	Himani; Raman A.P.S.; Jain P.; Chandra R.; Kumari K.; Kumar V.; Singh P.	Eco-friendly Nature of Ionic Liquids	2023	Ionic Liquids: Eco-friendly Substitutes for Surface and Interface Applications				16	36	10.2174/9789815136234123010006	https://www.scopus.com/pages/publications/85208352830?origin=resultslist	Scopus
551	Chitralekha; Thakur O.P.; Gaurav S.; Shankar S.; Singh A.P.	Green Synthesis of ZnO-CoFe2O4 Nanocomposite and Study of its Structural and Electrical Behavior Along with Hydroelectric Cell Application	2023	Lecture Notes in Mechanical Engineering				543	553	10.1007/978-981-99-2349-6_49	https://www.scopus.com/pages/publications/85172219819?origin=resultslist	Scopus
552	Sharma A.K.; Srivastava A.; Jha P.K.; Kumar R.; Kumar M.; Kulriya P.K.; Chourasia N.K.; Chourasia R.K.	Bulk/Interface Defects Engineering and Comparative Performance Analysis of p-Si/n-CdS/ALD-ZnO Heterojunction Solar Cell	2023	Energy Technology	11	8	2E+06			10.1002/ente.202300169	https://www.scopus.com/pages/publications/85159911948?origin=resultslist	Scopus
553	Joarder S.; Bansal D.; Meena H.; Kaushik N.; Tomar J.; Kumari K.; Bahadur I.; Ha Choi E.; Kaushik N.K.; Singh P.	Bioinspired green deep eutectic solvents: preparation, catalytic activity, and biocompatibility	2023	Journal of Molecular Liquids	376		121355			10.1016/j.molliq.2023.121355	https://www.scopus.com/pages/publications/85148546402?origin=resultslist	Scopus

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555	Alka; Vishvakarma V.K.; Yadav S.; Singh P.; Jain P.	In Vitro, In Silico, ADME and Theoretical Analysis of Mn(II) and Co(II) Complexes Derived from Methyl-(Z)-N′-Carbamothioylcarbamohydrazonate Schiff Base Ligand	2023	Chemistry and Biodiversity	20	6	e202300042			10.1002/cbdv.202300042	https://www.scopus.com/pages/publications/85160778553?origin=resultslist	Scopus
556	Jeengar C.; Tomar M.; Jindal K.; Sharma A.; Jha P.K.	Influence of post deposition annealing on thermoelectric properties of In2Se3 thin films	2023	Materials Science in Semiconductor Processing	153		107127			10.1016/j.mssp.2022.107127	https://www.scopus.com/pages/publications/85139329611?origin=resultslist	Scopus
557	Deshwal N.; Singh M.B.; Bahadur I.; Kaushik N.; Kaushik N.K.; Singh P.; Kumari K.	A review on recent advancements on removal of harmful metal/metal ions using graphene oxide: Experimental and theoretical approaches	2023	Science of the Total Environment	858		159672			10.1016/j.scitotenv.2022.159672	https://www.scopus.com/pages/publications/85141481625?origin=resultslist	Scopus
558	Kumar A.; Lal K.; Yadav M.; Kumar S.; Singh M.B.; Kumari K.	Isatin-semicarbazone linked acetamide 1,2,3-triazole hybrids: Synthesis, antimicrobial evaluation and docking simulations	2023	Journal of Molecular Structure	1287		135660			10.1016/j.molstruc.2023.135660	https://www.scopus.com/pages/publications/85153945870?origin=resultslist	Scopus
559	Gunjan; Sharma P.; Kumar P.; Sharma N.; Bhagat S.	On Water Pictet-Spengler Reaction of Tryptophan followed by Buchwald Coupling for the Synthesis of Natural Products Stellarines A, B and β-Carboline Derivatives: Their Molecular Docking against SARS-CoV-2 MPro	2023	ChemistrySelect	8	11	e202300080			10.1002/slct.202300080	https://www.scopus.com/pages/publications/85150688635?origin=resultslist	Scopus
560	Garg T.; Gupta T.; Gaurav S.; Shankar S.; Verma R.	Carbon Footprint Analysis of Green Composites	2023	Sustainability of Green and Eco-friendly Composites				167	180	10.1201/9781003272625-13	https://www.scopus.com/pages/publications/85168505193?origin=resultslist	Scopus

561	Azad N.	UV-visible spectroscopy	2023	Analytical Methods in Chemical Analysis: An Introduction				59	80	10.1515/9783110794816-004	https://www.scopus.com/pages/publications/85163440414?origin=resultslist	Scopus
562	Dubey C.; Yadav A.; Baloni D.; Singh S.; Singh A.K.; Singh S.K.; Singh A.K.	Multi-stimuli-responsive and dynamic color tunable security ink for multilevel anticounterfeiting	2023	Methods and Applications in Fluorescence	11	2	25001			10.1088/2050-6120/acbe92	https://www.scopus.com/pages/publications/85150396611?origin=resultslist	Scopus
563	Dixit V.S.; Chopra A.B.	Push and nuke attacks detection using DNN-HHO algorithm	2023	International Journal of Information and Computer Security	20	03-Apr		248	268	10.1504/IJICS.2023.128816	https://www.scopus.com/pages/publications/85148884872?origin=resultslist	Scopus
564	Singh G.; Kumar Y.; Husain S.	Fabrication of high energy density symmetric polyaniline/functionalized multiwalled carbon nanotubes supercapacitor device with swift charge transport in different electrolytic mediums	2023	Journal of Energy Storage	65		107328			10.1016/j.est.2023.107328	https://www.scopus.com/pages/publications/85152229198?origin=resultslist	Scopus
565	Bharati M.; Rana L.; Jindal K.; Gupta R.; Sharma A.; Tomar M.	Lamb Wave Resonator for UV Photodetection and Impact of Induced Piezopotential on Schottky Barrier Height Toward Enhanced Sensitivity	2023	IEEE Sensors Journal	23	10		10568	10576	10.1109/JSEN.2023.3265854	https://www.scopus.com/pages/publications/85153512230?origin=resultslist	Scopus
566	Ratra S.; Pant B.; Roy K.; Manohar S.; Kumar P.; Singh S.; Tumba K.; Kumari K.; Singh P.	A review on synthesis of antiviral drugs, in silico studies and their toxicity	2023	Journal of the Indian Chemical Society	100	3	100936			10.1016/j.jics.2023.100936	https://www.scopus.com/pages/publications/85149265567?origin=resultslist	Scopus
567	Bharti; Kumar Y.; Gupta M.; Sharma S.	Study of pristine and functionalized V2C and Mo2C MXenes as novel electrode material for supercapacitors	2023	Journal of Molecular Graphics and Modelling	118		108366			10.1016/j.jmgm.2022.108366	https://www.scopus.com/pages/publications/85140808433?origin=resultslist	Scopus
568	Kumar G.; Tyagi B.K.	On variants of θ-Menger spaces	2023	Filomat	37	15		5075	5085	10.2298/FIL2315075K	https://www.scopus.com/pages/publications/85150515533?origin=resultslist	Scopus

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570	Thakur S.; Verma L.R.; Tiwari J.; Negi K.	Perspectives and challenges of common service centres towards e-governance	2023	Electronic Government	19	1		112	122	10.1504/EG.2022.10042212	https://www.scopus.com/pages/publications/85147535447?origin=resultslist	Scopus
571	Pratap Singh Raman A.; Pal S.; Singh P.; Kumar A.; Jain P.; Kumari K.	Investigate the designing of eutectic mixture using DFT computation and evaluate their biological potency using molecular docking	2023	Journal of Molecular Liquids	381		121723			10.1016/j.molliq.2023.121723	https://www.scopus.com/pages/publications/85152932566?origin=resultslist	Scopus
572	Singh V.; Sharma S.; Kumar Chourasia R.; Kumar A.; Kumar M.	Structural, dielectric, and leakage current analysis of 'La' doped BiMnO3	2023	Materials Today: Proceedings						10.1016/j.matpr.2023.01.116	https://www.scopus.com/pages/publications/85147117300?origin=resultslist	Scopus
573	Raj A.; Kumar M.; Kumar A.; Khan Z.R.; Anshul A.	Effect of Series Resistance and Temperature on PCE of Double Perovskite La2NiMnO6-Based PSC	2023	Macromolecular Symposia	407	1	2E+06			10.1002/masy.202100482	https://www.scopus.com/pages/publications/85148545593?origin=resultslist	Scopus
574	Raman A.P.S.; Singh M.B.; Vishvakarma V.K.; Jain P.; Kumar A.; Sachdeva S.; Kumari K.; Singh P.	An investigation for the interaction of gamma oryzanol with the Mpro of SARS-CoV-2 to combat COVID-19: DFT, molecular docking, ADME and molecular dynamics simulations	2023	Journal of Biomolecular Structure and Dynamics	41	5		1919	1929	10.1080/07391102.2022.2029770	https://www.scopus.com/pages/publications/85123500707?origin=resultslist	Scopus
575	Bharati M.; Rana L.; Gupta R.; Sharma A.; Jha P.K.; Tomar M.	Simulation and Fabrication of Higher-Mode Lamb Wave Acoustic Devices for Sensing Applications	2023	Physica Status Solidi (A) Applications and Materials Science	220	14	2E+06			10.1002/pssa.202200760	https://www.scopus.com/pages/publications/85162866171?origin=resultslist	Scopus
576	Yadav S.; Kaushik S.; Dheer N.; Kumar S.; Singh G.; Chaudhary M.Y.; Gupta M.	Experimental investigation of anti-corrosive behaviour of Beta vulgaris: A green approach	2023	Journal of Applied and Natural Science	15	3		1315	1325	10.31018/jans.v15i3.4969	https://www.scopus.com/pages/publications/85172679166?origin=resultslist	Scopus
577	Miglani R.; Gupta R.; Sharma A.; Tomar M.; Chowdhuri A.	Ba1−xSr xTiO3 thin-film-based X-band selective coplanar waveguide microwave resonator using SiO2 as buffer layer	2023	Journal of Materials Research	38	16		4009	4021	10.1557/s43578-023-01118-2	https://www.scopus.com/pages/publications/85165572119?origin=resultslist	Scopus
578	Kumar A.; Raj A.; Gupta A.; Gautam S.; Kumar M.; Bherwani H.; Anshul A.	Pollution free UV-C radiation to mitigate COVID-19 transmission	2023	Gondwana Research	114			78	86	10.1016/j.gr.2022.07.010	https://www.scopus.com/pages/publications/85136746690?origin=resultslist	Scopus

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580	Raj A.; Kumar M.; Kumar A.; Singh K.; Sharma S.; Singh R.C.; Pawar M.S.; Yahya M.Z.A.; Anshul A.	Comparative analysis of 'La' modified BiFeO3-based perovskite solar cell devices for high conversion efficiency	2023	Ceramics International	49	1		1317	1327	10.1016/j.ceramint.2022.09.112	https://www.scopus.com/pages/publications/85142431856?origin=resultslist	Scopus
581	Garg T.; Sharma G.; Shankar S.; Singh S.P.	Tribological performance of polymeric materials for biomedical applications	2023	Assessment of Polymeric Materials for Biomedical Applications				121	138	10.1201/9781003319139-8	https://www.scopus.com/pages/publications/85173320200?origin=resultslist	Scopus
582	Kumar A.; Hussain A.; Joseph A.J.; Goel S.; Singh N.S.; Singh U.	Influence of Mn-doping on di-/piezo-/ferro-electric properties of 0.49BiFeO3–0.20Pb(Mg1/3Nb2/3)O3–0.31PbTiO3 ceramic at morphotropic phase boundary	2023	Journal of Materials Science: Materials in Electronics	34	17	1371			10.1007/s10854-023-10795-y	https://www.scopus.com/pages/publications/85162125541?origin=resultslist	Scopus
583	Katiyar S.; Jogi J.	Investigation and modeling of trap states in ambipolar organic field-effect transistor	2023	Organic Electronics	113		106675			10.1016/j.orgel.2022.106675	https://www.scopus.com/pages/publications/85142164235?origin=resultslist	Scopus
584	Moges-Tsegaye M.; Kumar M.; Pandey S.P.; Fentie-Tasew M.; Yadav P.; Chouhan G.	Characterization and Antibacterial Activity of Plant-Mediated Silver Oxide Nanoparticles	2023	Macromolecular Symposia	407	1	2E+06			10.1002/masy.202200084	https://www.scopus.com/pages/publications/85148545188?origin=resultslist	Scopus
585	Sehgal P.; Patel K.	Dual-Band 4 × 4 Hexagonal SRR MIMO Antenna with Port Excitation-Controlled Gain and Directivity for WLAN/WiMAX Applications	2023	Progress In Electromagnetics Research C	135			55	67	10.2528/PIERC23030604	https://www.scopus.com/pages/publications/85165954889?origin=resultslist	Scopus
586	Rani A.; Aslam M.; Pandey G.; Pant B.N.	A review on synthesis of FDA-approved antipsychotic drugs	2023	Tetrahedron	138		133430			10.1016/j.tet.2023.133430	https://www.scopus.com/pages/publications/85156218979?origin=resultslist	Scopus

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588	Azemtsop M.T.; Mehra R.M.; Kumar Y.; Gupta M.	Physical Characterization of Ionic Liquid-Modified Polyvinyl Alcohol and Sodium Thiocyanate Polymer Electrolytes for Electrochemical Double-Layer Capacitor Application; [用于电化学双层电容器的离子液体改性聚乙烯醇和硫氰酸钠聚合物电解质的物理表征]	2023	Journal of Shanghai Jiaotong University (Science)	28	2		161	171	10.1007/s12204-021-2397-y	https://www.scopus.com/pages/publications/85121750512?origin=resultslist	Scopus
589	Sharma S.; Kumar P.; Kumar M.; Singh V.; Yocupicio-Gaxiola R.I.; Siqueiros J.M.; Raymond Herrera O.	Investigations on Dielectric, Transport, and Ferroelectric Properties of Ca-Modified Bi0.80La0.20FeO3 Ceramic Synthesized by Solid State Reaction Route	2023	Journal of Electronic Materials	52	7		4312	4320	10.1007/s11664-023-10209-z	https://www.scopus.com/pages/publications/85146975783?origin=resultslist	Scopus
590	Bharati M.; Rana L.; Gupta R.; Sharma A.; Jha P.K.; Tomar M.	Fabrication of Surface Acoustic wave resonator as Acousto-optic Modulator	2023	Optical Materials	142		114088			10.1016/j.optmat.2023.114088	https://www.scopus.com/pages/publications/85164239660?origin=resultslist	Scopus
591	Kaura R.; Rajput N.	Dynamic volatility spillover across stock markets of India and its trading partners-an empirical investigation	2023	International Journal of Economics and Business Research	26	1		84	109	10.1504/IJEBR.2023.131784	https://www.scopus.com/pages/publications/85166409855?origin=resultslist	Scopus
592	Prasad R.; Kumar K.; Dohare R.	Caputo fractional order derivative model of Zika virus transmission dynamics	2023	Journal of Mathematics and Computer Science	28	2		145	157	10.22436/jmcs.028.02.03	https://www.scopus.com/pages/publications/85131678843?origin=resultslist	Scopus

593	Jain P.; Shankar S.; Thakur O.P.	Unveiling the impact of Ni2+/Y3+ co-substitution on the structural, dielectric, and impedance properties of multiferroic spinel ferrite for hydroelectric cell application	2023	Physical Chemistry Chemical Physics	25	32		21280	21296	10.1039/d3cp02339g	https://www.scopus.com/pages/publications/85168222737?origin=resultslist	Scopus
594	Yadav S.; Sewariya S.; Chandra R.; Singh P.; Kumar A.; Jain P.; Sachdeva S.; Kumari K.	An investigation to understand the correlation between the experimental and density functional theory calculations of noscapine	2023	Journal of Physical Organic Chemistry	36	7	e4502			10.1002/poc.4502	https://www.scopus.com/pages/publications/85151956485?origin=resultslist	Scopus
595	Kumar A.; Mukherjee S.; Sharma H.; Rana D.K.; Kumar A.; Kumar R.; Choubey R.K.	Fabrication of low-cost and fast-response visible photodetector based on ZnS:Mn/p-Si heterojunction	2023	Materials Science in Semiconductor Processing	155		107226			10.1016/j.mssp.2022.107226	https://www.scopus.com/pages/publications/85142765983?origin=resultslist	Scopus
596	Narang G.; Bansal D.; Joarder S.; Singh P.; Kumar L.; Mishra V.; Singh S.; Tumba K.; Kumari K.	A review on the synthesis, properties, and applications of graphynes	2023	FlatChem	40		100517			10.1016/j.flatc.2023.100517	https://www.scopus.com/pages/publications/85162031999?origin=resultslist	Scopus
597	Pandey R.; Singh P.	Nanocomposite Ceramics for Energy Harvesting	2023	Nanomaterials: Advances and Applications				241	266	10.1007/978-981-19-7963-7_9	https://www.scopus.com/pages/publications/85156123821?origin=resultslist	Scopus
598	Yamini; Vikrant S.R.; Neeraj M.; Sanjay K.	Environmental Applications of Nanosponges (NSPs) to Clean up Oil Spills	2023	Nanosponges for Environmental Remediation				425	448	10.1007/978-3-031-41077-2_19	https://www.scopus.com/pages/publications/85208897345?origin=resultslist	Scopus
599	Jain P.; Shankar S.; Thakur O.P.	Structural, Dielectric, Impedance, Ferroelectric Studies of Zinc Doped Bismuth Ferrites for Hydroelectric Cell Application	2023	Lecture Notes in Mechanical Engineering				505	513	10.1007/978-981-99-2349-6_46	https://www.scopus.com/pages/publications/85172185283?origin=resultslist	Scopus
600	Pratibha K; Gaurav S.; Shankar S.; Dikshit A.K.; Dwivedi Y.	Investigations on spectroscopic and optothermal ability of bright red-emitting Cr doped LiAlSi3O8 nanophosphor	2023	Optik	273		170390			10.1016/j.ijleo.2022.170390	https://www.scopus.com/pages/publications/85144316185?origin=resultslist	Scopus

601	Kumar M.; Sharma S.; Kumar A.; Srivastava A.N.	Fabrication and Characterization of Lead-Free Magnetic-Ferroelectric Green Composites for Spintronic Applications	2023	Sustainability of Green and Eco-friendly Composites				61	70	10.1201/9781003272625-5	https://www.scopus.com/pages/publications/85168456601?origin=resultslist	Scopus
602	Kumar R.; Sahoo S.; Joanni E.; Pandey R.; Tan W.K.; Kawamura G.; Moshkalev S.A.; Matsuda A.	Microwave-assisted dry synthesis of hybrid electrode materials for supercapacitors: Nitrogen-doped rGO with homogeneously dispersed CoO nanocrystals	2023	Journal of Energy Storage	68		107820			10.1016/j.est.2023.107820	https://www.scopus.com/pages/publications/85159859260?origin=resultslist	Scopus
603	Suraj M.S.; Meena O.P.; Aggarwal R.; Mittal A.; Asique M.C.	On the periodic orbits around the collinear libration points in the SCR4BP with non-spherical primaries	2023	Nonlinear Dynamics	111	6		5547	5577	10.1007/s11071-022-08131-w	https://www.scopus.com/pages/publications/85145054930?origin=resultslist	Scopus
604	Raj A.; Kumar M.; Anshul A.	Topical advances in fabrication technologies of perovskite solar cell heterostructures: Performance and future perspective	2023	Materials Letters	340		134171			10.1016/j.matlet.2023.134171	https://www.scopus.com/pages/publications/85150049365?origin=resultslist	Scopus
605	Singh M.B.; Singh P.; Jain P.	Market demand for smart packaging versus consumer perceptions	2023	Green Sustainable Process for Chemical and Environmental Engineering and Science: Methods for Producing Smart Packaging				115	128	10.1016/B978-0-323-95644-4.00011-5	https://www.scopus.com/pages/publications/85150534984?origin=resultslist	Scopus

606	Singh M.B.; Raman A.P.S.; Singh P.; Jain P.; Kumari K.	Molybdenum-Modified Carbon Allotropes in Wastewater Treatment	2023	Carbon Allotropes and Composites: Materials for Environment Protection and Remediation				91	112	10.1002/9781394167913.ch6	https://www.scopus.com/pages/publications/85165091326?origin=resultslist	Scopus
607	Munish; Sharma D.; Lal B.; Singh S.	Role of dust on the gradient driven instability in an E × B plasma	2023	Journal of Theoretical and Applied Physics	17	4	172343			10.57647/J.JTAP.2023.1704.43	https://www.scopus.com/pages/publications/85177221001?origin=resultslist	Scopus
608	Chandravanshi O.; Kumar A.; Sharma S.; Kumar Chourasia R.; Singh R.C.; Gupta S.; Singh S.; Kumar M.	Effect of 'Co' modification in multiferroic BiFeO3 perovskite on structural and dielectric properties	2023	Materials Today: Proceedings						10.1016/j.matpr.2023.01.214	https://www.scopus.com/pages/publications/85147230929?origin=resultslist	Scopus
609	Gupta T.; Pratibha K.; Garg T.; Shankar S.; Gaurav S.; Verma R.	Sustainable Green Composites for Packaging Applications	2023	Sustainability of Green and Eco-friendly Composites				129	144	10.1201/9781003272625-10	https://www.scopus.com/pages/publications/85168528763?origin=resultslist	Scopus
610	Meena S.; Sharma N.; Jogi J.	Sub-5 nm 2D Semiconductor-Based Monolayer Field-Effect Transistor: Status and Prospects	2023	Physica Status Solidi (A) Applications and Materials Science	220	11	2E+06			10.1002/pssa.202200526	https://www.scopus.com/pages/publications/85151428657?origin=resultslist	Scopus
611	Singh B.; Singh B.K.; Singh D.V.	Thermodynamics, phase structure of Bardeen massive black hole in Gauss-Bonnet gravity	2023	International Journal of Geometric Methods in Modern Physics	20	8	2E+06			10.1142/S0219887823501256	https://www.scopus.com/pages/publications/85153939824?origin=resultslist	Scopus

612	Joarder S.; Bansal D.; Babu Singh M.; Kumari K.	Utilization of schiff base metal complexes as antiviral and antiparasitic agent	2023	Structural and Biological Applications of Schiff Base Metal Complexes				75	89	10.1201/9781003291459-5	https://www.scopus.com/pages/publications/85163005571?origin=resultslist	Scopus
613	Sharma A.K.; Kumar R.; Jha P.K.; Kumar M.; Chourasia N.K.; Chourasia R.K.	Bulk Parameters Effect and Comparative Performance Analysis of p-Si/n-CdS/ALD-ZnO Solar Cell	2023	Silicon	15	15		6497	6508	10.1007/s12633-023-02518-z	https://www.scopus.com/pages/publications/85160443380?origin=resultslist	Scopus
614	Raghav L.; Patanjali P.; Patanjali N.; Singh R.	Adsorption of malachite green and chrysoidine-Y by Sn-pillared clay	2023	Environmental Quality Management	32	3		181	193	10.1002/tqem.21888	https://www.scopus.com/pages/publications/85130544339?origin=resultslist	Scopus
615	Kumar A.; Lal K.; Kumar V.; Murtaza M.; Jaglan S.; Paul A.K.; Yadav S.; Kumari K.	Synthesis, antimicrobial, antibiofilm and computational studies of isatin-semicarbazone tethered 1,2,3-triazoles	2023	Bioorganic Chemistry	133		106388			10.1016/j.bioorg.2023.106388	https://www.scopus.com/pages/publications/85147295868?origin=resultslist	Scopus
616	Yadav S.; Raman A.P.S.; Singh M.B.; Jain P.; Singh P.; Kumari K.	Naphthyridine, Phthalocyanine, and Their Derivative-based Corrosion Inhibitors	2023	Handbook of Heterocyclic Corrosion Inhibitors: Principles and Applications				96	109	10.1201/9781003377016-6	https://www.scopus.com/pages/publications/85180852422?origin=resultslist	Scopus
617	Kumar M.; Kumar A.; Raj A.; Kr. Singh P.; Anshul A.	Effect of Band-Gap Tuning and Series Resistance on PCE of Optimized MAPbI3-Based PSC by SCAPS-1D Simulation	2023	Macromolecular Symposia	407	1	2E+06			10.1002/masy.202100464	https://www.scopus.com/pages/publications/85148540780?origin=resultslist	Scopus
618	Gupta M.; Yadav S.	Electrochemistry	2023	Analytical Methods in Chemical Analysis: An Introduction				229	260	10.1515/9783110794816-011	https://www.scopus.com/pages/publications/85163472949?origin=resultslist	Scopus

619	Pandey G.; Singh P.; Pant B.N.; Bajpai S.	Potentials and frontiers of nanotechnology for phytoremediation	2023	Phytoremediation: Management of Environmental Contaminants, Volume 7				365	382	10.1007/978-3-031-17988-4_17	https://www.scopus.com/pages/publications/85160367996?origin=resultslist	Scopus
620	Meena V.S.; Saini A.K.; Singh A.; Jain S.; Rana D.K.; Mehata M.S.	Design and development of four-layer anti-reflection coating stacks (ZnS and YF3 thin films) for HgCdTe-based mid-wave infrared detectors	2023	Materials Science in Semiconductor Processing	163		107556			10.1016/j.mssp.2023.107556	https://www.scopus.com/pages/publications/85153887159?origin=resultslist	Scopus
621	Mukhopadhyay S.; Sahni M.; Chauhan A.; Kumari N.; Singh R.C.; Kumar M.; Alheety M.A.; Aldbea F.W.	An Optimized Method for Detecting Unauthorized Power Consumption	2023	Macromolecular Symposia	407	1	2E+06			10.1002/masy.202200122	https://www.scopus.com/pages/publications/85148545901?origin=resultslist	Scopus
622	Tsegaye M.M.; Chouhan G.; Kumar M.; Pandey S.P.; Fentie M.; Yadav P.	Green Synthesis of Copper-oxide Nanoparticles and Evaluation of Its Therapeutic Efficacy	2023	Macromolecular Symposia	407	1	2E+06			10.1002/masy.202200080	https://www.scopus.com/pages/publications/85148537156?origin=resultslist	Scopus
623	Kumar V.; Lal K.; Kumar A.; Tittal R.K.; Singh M.B.; Singh P.	Efficient synthesis, antimicrobial and molecular modelling studies of 3-sulfenylated oxindole linked 1,2,3-triazole hybrids	2023	Research on Chemical Intermediates	49	3		917	937	10.1007/s11164-022-04933-0	https://www.scopus.com/pages/publications/85144727289?origin=resultslist	Scopus
624	Pratibha K.; Chitralekha; Kaur H.; Shankar S.; Gaurav S.; Dwivedi Y.	Influence of annealing temperature on structural, optical and electrical properties of zinc silicate (Zn2SiO4) nanophosphors	2023	Physica B: Condensed Matter	658		414836			10.1016/j.physb.2023.414836	https://www.scopus.com/pages/publications/85151031851?origin=resultslist	Scopus
625	Saroha B.; Kumar A.; Bhan V.; Singh S.; Tumba K.; Singh P.; Bahadur I.	Interaction of heavy metals in Drosophila melanogaster larvae: Fourier transform infrared spectroscopy and single-cell electrophoresis study	2023	Journal of Biomolecular Structure and Dynamics	41	18		8810	8823	10.1080/07391102.2022.2137587	https://www.scopus.com/pages/publications/85142343029?origin=resultslist	Scopus
626	Yadav P.	Second-order optimality conditions in nonsmooth vector optimization∗	2023	Control and Cybernetics	52	1		35	51	10.2478/candc-2023-0031	https://www.scopus.com/pages/publications/85186192591?origin=resultslist	Scopus

627	Barooah P.	CONTEXTUALISING SAMATAṬA–HARIKELA IN THEIR POLITICAL AND ECONOMIC SCENARIO AND EXCHANGE RELATIONS WITH KĀMARŪPA AND CHINA	2023	The Economic History of India: Historiographical Issues and Perspectives: Essays in Honour of Professor Ranabir Chakravarti				405	426	10.5040/9789356401860.ch-016	https://www.scopus.com/pages/publications/85195916324?origin=resultslist	Scopus
628	Gupta M.	Conductance	2023	Analytical Methods in Chemical Analysis: An Introduction				205	228	10.1515/9783110794816-010	https://www.scopus.com/pages/publications/85163454262?origin=resultslist	Scopus
629	Raman A.P.S.; Singh P.; Jain P.	Selective treatment of tumors using nanocarriers	2023	Green Sustainable Process for Chemical and Environmental Engineering and Science: Recent Advances in Nanocarriers				261	276	10.1016/B978-0-323-95171-5.00013-3	https://www.scopus.com/pages/publications/85161843531?origin=resultslist	Scopus
630	Kumar M.	Preface	2023	High Performance Polymers	35	1		3		10.1177/09540083221129560	https://www.scopus.com/pages/publications/85139052328?origin=resultslist	Scopus

631	Prakash D.	Why Output Rises Faster than Employment in the Service Sector of India?	2023	Economic and Political Weekly	58	28		38	45		https://www.scopus.com/pages/publications/85166039959?origin=resultslist	Scopus
632	Sharma P.; Suthar V.; Aggarwal M.; Singh R.; Kumar K.P.	Role of pyridine and its privileged derivatives as anti-infective agents	2022	Recent Developments in the Synthesis and Applications of Pyridines				1	42	10.1016/B978-0-323-91221-1.00016-6	https://www.scopus.com/pages/publications/85142673356?origin=resultslist	Scopus
633	Krupanidhi S.B.; Gupta V.; Kaushik A.S.; Singh A.K.	Preface	2022	Springer Proceedings in Materials	14			xv	xvi		https://www.scopus.com/pages/publications/85127842883?origin=resultslist	Scopus
634	Singh P.; Pandey R.; Srivastava K.K.; Singh P.	Examining the consequences of calcium substitution on the physical properties and conduction mechanism of Y3GaO6	2022	Journal of Materials Science: Materials in Electronics	33	13		10343	10359	10.1007/s10854-022-08022-1	https://www.scopus.com/pages/publications/85126857007?origin=resultslist	Scopus
635	Raza M.M.H.; Aalam S.M.; Sadiq M.; Sarvar M.; Zulfequar M.; Husain S.; Ali J.	Time-dependent resonating plasma treatment of carbon nanotubes for enhancing the electron field emission properties	2022	Journal of Materials Science: Materials in Electronics	33	3		1211	1227	10.1007/s10854-021-07413-0	https://www.scopus.com/pages/publications/85120089837?origin=resultslist	Scopus
636	Singh M.B.; Kumar A.; Jain P.; Singh P.; Kumari K.	An insight of novel eutectic mixture between thiazolidine-2,4-dione and zinc chloride: Temperature-dependent density functional theory approach	2022	Journal of Physical Organic Chemistry	35	3	e4305			10.1002/poc.4305	https://www.scopus.com/pages/publications/85119694410?origin=resultslist	Scopus
637	Sadiq M.; Raza M.M.H.; Zulfequar M.; Ali J.	Facile synthesis of highly flexible sodium ion conducting polyvinyl alcohol (PVA)-polyethylene glycol (PEG) blend incorporating reduced graphene-oxide (rGO) composites for electrochemical devices application	2022	Journal of Polymer Research	29	4	107			10.1007/s10965-022-02892-z	https://www.scopus.com/pages/publications/85125640941?origin=resultslist	Scopus

638	Chaudhary M.; Pal S.; Kumari K.; Bahadur I.; Gambhir G.; Singh P.	Role of ionic liquids and their future alternative toward protein chemistry	2022	Advanced Applications of Ionic Liquids				417	441	10.1016/B978-0-323-99921-2.00013-6	https://www.scopus.com/pages/publications/85150122336?origin=resultslist	Scopus
639	Raza M.M.H.; Aalam S.M.; Sadiq M.; Sarvar M.; Zulfequar M.; Husain S.; Ali J.	Study the electron field emission properties of silver nanoparticles decorated carbon nanotubes-based cold-cathode field emitters via post-plasma treatment	2022	Journal of Materials Science: Materials in Electronics	33	9		7191	7211	10.1007/s10854-022-07900-y	https://www.scopus.com/pages/publications/85124744284?origin=resultslist	Scopus
640	Mittal S.; Kumar G.; Tyagi B.K.	On Some Set Properties	2022	Filomat	36	19		6473	6479	10.2298/FIL2219473M	https://www.scopus.com/pages/publications/85146737011?origin=resultslist	Scopus
641	Srivastva A.N.; Saxena N.; Kumar M.	Green Polymers Decorated with Metal Nanocomposites: Application in Energy Storage, Energy Economy and Environmental Safety	2022	Energy, Environment, and Sustainability				269	292	10.1007/978-981-16-8599-6_12	https://www.scopus.com/pages/publications/85122851327?origin=resultslist	Scopus
642	Sunita B.; Renu P.	RING CLOSURE of HSCH2CH2S- AND HSCH2CH2CH2 S-: A DENSITY FUNCTIONAL STUDY	2022	Rasayan Journal of Chemistry	15	3		1840	1845	10.31788/RJC.2022.1536953	https://www.scopus.com/pages/publications/85136180562?origin=resultslist	Scopus
643	Tyagi B.K.; Luthra S.	OPEN-POINT AND BI-POINT OPEN TOPOLOGIES ON CONTINUOUS FUNCTIONS BETWEEN TOPOLOGICAL (SPACES) GROUPS	2022	Matematicki Vesnik	74	1		56	70		https://www.scopus.com/pages/publications/85124468041?origin=resultslist	Scopus
644	Chandekar K.V.; Shkir M.; Yadav S.P.; Behera P.K.; AlFaify S.	Facile synthesis of Mn-doped ZnO nanoparticles by flash combustion route and their characterizations for optoelectronic applications	2022	Journal of Materials Science: Materials in Electronics	33	7		3849	3869	10.1007/s10854-021-07576-w	https://www.scopus.com/pages/publications/85122496239?origin=resultslist	Scopus
645	Saxena A.; Hussain A.; Saxena A.; Joseph A.J.; Saxena R.S.	Dielectric dispersion near the morphotropic phase boundary of 0.64PMN-0.36PT ceramics	2022	Ceramics International	48	18		26258	26263	10.1016/j.ceramint.2022.05.307	https://www.scopus.com/pages/publications/85132390340?origin=resultslist	Scopus
646	Kumari K.; Kumar A.; Singh P.; Kaushik N.K.	In silico study of remdesivir with and without ionic liquids having different cations using DFT calculations and molecular docking	2022	Journal of the Indian Chemical Society	99	2	100328			10.1016/j.jics.2021.100328	https://www.scopus.com/pages/publications/85122262902?origin=resultslist	Scopus

647	Vikal M.; Shah S.; Singh N.; Singh P.; Gupta M.; Jiban Singh M.; Kumar A.; Kumar Y.	Efficient MnO2 decorated graphitic carbon nitride-based nanocomposite for application in water purification	2022	Materials Today: Proceedings	67			777	783	10.1016/j.matpr.2022.07.310	https://www.scopus.com/pages/publications/85135774859?origin=resultslist	Scopus
648	Katiyar S.; Verma N.; Jogi J.	A comprehensive analytical model for ambipolar transport in nano-dimensional VOPc/p-6P OHJFET for applications in organic electronics	2022	Semiconductor Science and Technology	37	2	25008			10.1088/1361-6641/ac3b3b	https://www.scopus.com/pages/publications/85122474995?origin=resultslist	Scopus
649	Nigam N.K.; Singh K.; Arya P.	Impact of gender diversity in boardroom on risk-return profile of Indian corporates	2022	Journal of Indian Business Research	14	3		213	230	10.1108/JIBR-07-2020-0236	https://www.scopus.com/pages/publications/85116837443?origin=resultslist	Scopus
650	Sharma R.; Kumar S.; Bhawna; Gupta A.; Dheer N.; Jain P.; Singh P.; Kumar V.	An Insight of Nanomaterials in Tissue Engineering from Fabrication to Applications	2022	Tissue Engineering and Regenerative Medicine	19	5		927	960	10.1007/s13770-022-00459-z	https://www.scopus.com/pages/publications/85131509458?origin=resultslist	Scopus
651	Kumari M.; Chahar M.; Shankar S.; Thakur O.P.	Temperature dependent dielectric, ferroelectric and energy storage properties in Bi0.5Na0.5TiO3(BNT) nanoparticles	2022	Materials Today: Proceedings	67			688	693	10.1016/j.matpr.2022.06.542	https://www.scopus.com/pages/publications/85134835877?origin=resultslist	Scopus
652	Kumar M.; Raj A.; Kumar A.; Anshul A.	Computational analysis of bandgap tuning, admittance and impedance spectroscopy measurements in lead-free MASnI3 perovskite solar cell device	2022	International Journal of Energy Research	46	8		11456	11469	10.1002/er.7942	https://www.scopus.com/pages/publications/85127987236?origin=resultslist	Scopus
653	Singh P.; Pandey R.; Singh P.	Insight into Structural and Electrical Properties of Potassium and Lithium Substituted Non-stoichiometric Sodium Bismuth Titanate (Na0.54Bi0.46TiO3-δ)	2022	Springer Proceedings in Materials	14			171	185	10.1007/978-981-16-5971-3_20	https://www.scopus.com/pages/publications/85127913848?origin=resultslist	Scopus
654	Singh Raman A.P.; Muhammad A.A.; Singh H.; Singh T.; Mkhize Z.; Jain P.; Singh S.K.; Bahadur I.; Singh P.	A Review on Interactions between Amino Acids and Surfactants as Well as Their Impact on Corrosion Inhibition	2022	ACS Omega	7	51		47471	47489	10.1021/acsomega.2c03629	https://www.scopus.com/pages/publications/85144445805?origin=resultslist	Scopus

655	Sarvar M.; Hasan Raza M.M.; Aalam S.M.; Sadiq M.; Khan M.S.; Zulfequar M.; Ali J.	Synergistic Effect of Field Emission Properties on Growth of CNTs by One-Pot Preparation of Various Concentrations Composite Catalyst	2022	Nano	17	5	2E+06			10.1142/S1793292022500369	https://www.scopus.com/pages/publications/85131782059?origin=resultslist	Scopus
656	Singh G.; Alam M.; Ahmad T.; Shaheen S.; Kumar Y.; Husain S.	Fabrication of Polyaniline Nanospheres as a Good Electrode Material in Supercapacitors	2022	Springer Proceedings in Physics	271			393	400	10.1007/978-981-16-7691-8_39	https://www.scopus.com/pages/publications/85127065628?origin=resultslist	Scopus
657	Meena M.K.; Kumar D.; Kumari K.; Kaushik N.K.; Kumar R.V.; Bahadur I.; Vodwal L.; Singh P.	Promising inhibitors of nsp2 of CHIKV using molecular docking and temperature-dependent molecular dynamics simulations	2022	Journal of Biomolecular Structure and Dynamics	40	13		5827	5835	10.1080/07391102.2021.1873863	https://www.scopus.com/pages/publications/85099842979?origin=resultslist	Scopus
658	Meena M.K.; Kumar D.; Jayaraj A.; Kumar A.; Kumari K.; Katata-Seru L.M.; Bahadur I.; Kumar V.; Sherawat A.; Singh P.	Designed thiazolidines: an arsenal for the inhibition of nsP3 of CHIKV using molecular docking and MD simulations	2022	Journal of Biomolecular Structure and Dynamics	40	4		1607	1616	10.1080/07391102.2020.1832918	https://www.scopus.com/pages/publications/85092759354?origin=resultslist	Scopus
659	Lin L.; Li P.; Liu X.; Xie X.; Liu L.; Singh A.K.; Singh H.N.	Systematic review and meta-analysis of candidate gene association studies of benign prostate hyperplasia	2022	Systematic Reviews	11	1	60			10.1186/s13643-022-01914-7	https://www.scopus.com/pages/publications/85127545836?origin=resultslist	Scopus
660	Katiyar S.; Jogi J.	Recombination Zone Inside Transistor Channel in an Alq3/Pentacene Organic Light-Emitting Transistor	2022	Springer Proceedings in Materials	14			105	113	10.1007/978-981-16-5971-3_12	https://www.scopus.com/pages/publications/85127921695?origin=resultslist	Scopus
661	Raman A.P.S.; Singh M.B.; Kumar V.; Kumari K.; Jain P.; Singh P.	Use of organic compounds as medical products for the therapeutic treatment exposed to chemical warfare agents	2022	Sensing of Deadly Toxic Chemical Warfare Agents, Nerve Agent Simulants, and their Toxicological Aspects				359	379	10.1016/B978-0-323-90553-4.00012-3	https://www.scopus.com/pages/publications/85142700767?origin=resultslist	Scopus

662	Kumar A.; Jharwal S.; Prajapati B.; Kumar M.; Singh V.P.; Singh R.P.	Theoretical investigations on electronic and optical properties of half heusler alloy,FeNbSb for opto-electronic applications	2022	Optical and Quantum Electronics	54	11	717			10.1007/s11082-022-03919-x	https://www.scopus.com/pages/publications/85138145749?origin=resultslist	Scopus
663	Yadav A.; Verma O.N.; Pandey R.; Jha N.; Singh P.	Ion dynamics and electrical transport in lanthanum silicate apatite (La9.67Si6O26.5)	2022	Applied Physics A: Materials Science and Processing	128	10	862			10.1007/s00339-022-05963-6	https://www.scopus.com/pages/publications/85138005200?origin=resultslist	Scopus
664	Renu P.; Sunita B.	Isomerization of Silylnitrene to Silanimine: A Density Functional Study	2022	Research Journal of Chemistry and Environment	26	2		47	51	10.25303/2602rjce4751	https://www.scopus.com/pages/publications/85127532786?origin=resultslist	Scopus
665	Meena V.S.; Saini A.K.; Rana D.K.; Mehata M.S.	Synthesis and characterization of thermally-evaporated CdS thin-films	2022	Materials Today: Proceedings	67			643	647	10.1016/j.matpr.2022.06.111	https://www.scopus.com/pages/publications/85132515545?origin=resultslist	Scopus
666	Tarique H.; Shahid R.; Singh A.K.; Singh P.; Pandey R.; Singh P.	Phase Formation and Ionic Conduction in Potassium-Doped Strontium Metasilicate	2022	Springer Proceedings in Materials	14			27	34	10.1007/978-981-16-5971-3_3	https://www.scopus.com/pages/publications/85127841277?origin=resultslist	Scopus
667	Gupta M.; Savla N.; Pandit C.; Pandit S.; Gupta P.K.; Pant M.; Khilari S.; Kumar Y.; Agarwal D.; Nair R.R.; Thomas D.; Thakur V.K.	Use of biomass-derived biochar in wastewater treatment and power production: A promising solution for a sustainable environment	2022	Science of the Total Environment	825		153892			10.1016/j.scitotenv.2022.153892	https://www.scopus.com/pages/publications/85125240889?origin=resultslist	Scopus
668	Raman A.P.S.; Kumari K.; Jain P.; Vishvakarma V.K.; Kumar A.; Kaushik N.; Choi E.H.; Kaushik N.K.; Singh P.	In Silico Evaluation of Binding of 2-Deoxy-D-Glucose with Mpro of nCoV to Combat COVID-19	2022	Pharmaceutics	14	1	135			10.3390/pharmaceutics14010135	https://www.scopus.com/pages/publications/85136689865?origin=resultslist	Scopus

669	Singh M.B.; Raman A.P.S.; Kumar V.; Kumari K.; Jain P.; Singh P.	Smart hydrogel nanostructured sensor for detection of organophosphorus chemical warfare nerve agents	2022	Sensing of Deadly Toxic Chemical Warfare Agents, Nerve Agent Simulants, and their Toxicological Aspects				203	220	10.1016/B978-0-323-90553-4.00003-2	https://www.scopus.com/pages/publications/85142726807?origin=resultslist	Scopus
670	Singh P.; Kumar D.; Pal S.; Kumari K.; Bahadur I.	L-amino-acids as immunity booster against COVID-19: DFT, molecular docking and MD simulations	2022	Journal of Molecular Structure	1250		131924			10.1016/j.molstruc.2021.131924	https://www.scopus.com/pages/publications/85120304922?origin=resultslist	Scopus
671	Pratibha K.; Singh M.; Soni S.; Garg T.; Tuli V.; Gaurav S.; Shankar S.	Influence of defect layer of ZnS/air on one dimensional photonic crystal structure of gallium phosphide-crown glass using lumerical FDTD	2022	Journal of Optoelectronics and Advanced Materials	24	05-Jun		230	235		https://www.scopus.com/pages/publications/85138785611?origin=resultslist	Scopus
672	Kumar A.; Hussain A.; Joseph A.J.; Goel S.; Gupta R.; Singh N.S.; Singh U.	Synthesis of ternary 0.49BF-0.20PMN-0.31PT ceramic at morphotropic phase boundary for excellent die-/piezo-/ferro-/pyro-electric response	2022	Applied Physics A: Materials Science and Processing	128	8	655			10.1007/s00339-022-05800-w	https://www.scopus.com/pages/publications/85133694718?origin=resultslist	Scopus
673	Sao A.K.; Singh J.P.; Sharma B.; Munjal S.; Sharma A.; Tomar M.; Chowdhuri A.	CdS-SnO2 Nanocomposite Sensor for Room Temperature Detection of NO2 Gas	2022	Lecture Notes in Electrical Engineering	886			283	289	10.1007/978-3-030-98886-9_22	https://www.scopus.com/pages/publications/85133018901?origin=resultslist	Scopus
674	Singh V.; Kulriya P.K.; Kumar A.; Kumar R.; Kumar P.P.; Berwal U.; Singh J.; Chandra K.; Singh K.	Hydrogen induced structural modifications in size selected Pd-Carbon core-shell NPs: Effect of carbon shell thickness, size and pressure	2022	International Journal of Hydrogen Energy	47	25		12642	12652	10.1016/j.ijhydene.2022.01.245	https://www.scopus.com/pages/publications/85125446641?origin=resultslist	Scopus
675	Kumar M.; Kumar A.; Singh A.; Anshul A.; Sharma S.; Sati P.C.	Low temperature magnetic study and first principle calculation in ‘Mo’ doped CoFe2O4 for magnetic information storage applications	2022	Journal of Alloys and Compounds	896		163074			10.1016/j.jallcom.2021.163074	https://www.scopus.com/pages/publications/85120752586?origin=resultslist	Scopus

676	Jabeen F.; Shahid R.; Khan M.S.; Pandey R.	Effect of Mn doping on the structural, spectral, electrical, ferromagnetic and piezoelectric properties of 0.7BFO-0.3BTO lead-free ceramics	2022	Journal of Alloys and Compounds	917		165303			10.1016/j.jallcom.2022.165303	https://www.scopus.com/pages/publications/85131098864?origin=resultslist	Scopus
677	Bharti; Kumar Y.; Gupta M.; Sharma S.	Study of Quantum Capacitance of Pure and Functionalized Nb2C and Ti2C MXenes for Supercapacitor Applications	2022	ECS Transactions	107	1		1751	1760	10.1149/10701.1751ecst	https://www.scopus.com/pages/publications/85130536280?origin=resultslist	Scopus
678	Kumar A.; Kumar D.; Kumar R.; Singh P.; Chandra R.; Kumari K.	DFT and docking studies of designed conjugates of noscapines & repurposing drugs: promising inhibitors of main protease of SARS-CoV-2 and falcipan-2	2022	Journal of Biomolecular Structure and Dynamics	40	6		2600	2620	10.1080/07391102.2020.1841030	https://www.scopus.com/pages/publications/85095742341?origin=resultslist	Scopus
679	Raghav L.; Patanjali P.; Chopra I.; Singh R.	Adsorption and kinetic studies for removal of basic dyes using pillared bentonites	2022	Indian Journal of Chemical Technology	29	1		47	53		https://www.scopus.com/pages/publications/85129569025?origin=resultslist	Scopus
680	Gaurav S.; Shankar S.; Raghav A.; Kumari P.; Singh M.	Thermodynamic behavior of Na-majorite and knorringite-majorite garnet systems	2022	Russian Journal of Earth Sciences	22	3	ES3005			10.2205/2022ES000800	https://www.scopus.com/pages/publications/85131864673?origin=resultslist	Scopus
681	Yadav S.; Kumar M.; Kumar V.; Behera P.K.	Stability analysis of Lagrangian points of geo-synchronous satellite including the resistive force and earth's equatorial ellipticity	2022	New Astronomy	97		101887			10.1016/j.newast.2022.101887	https://www.scopus.com/pages/publications/85133700262?origin=resultslist	Scopus
682	Raj A.; Anshul A.; Kumar M.	Numerical simulation study of lead-free double perovskite solar cell through computation method	2022	Materials Today: Proceedings	67			748	751	10.1016/j.matpr.2022.07.143	https://www.scopus.com/pages/publications/85134771510?origin=resultslist	Scopus
683	Jain P.; Bhavani A.G.; Singh P.; Singh M.B.	Fundamental of Aerobic and Anaerobic Processes in Dye Wastewater	2022	Sustainable Textiles: Production, Processing, Manufacturing and Chemistry	Part F8134			39	55	10.1007/978-981-19-0545-2_2	https://www.scopus.com/pages/publications/105036214614?origin=resultslist	Scopus

684	Jha G.K.	Foreword	2022	Springer Proceedings in Materials	14			xiii	xiv	10.2174/9781608059645114010001	https://www.scopus.com/pages/publications/85127898256?origin=resultslist	Scopus
685	Patanjali P.; Mandal A.; Chopra I.; Singh R.	Adsorption of cationic dyes onto biopolymer-bentonite composites: kinetics and isotherm studies	2022	International Journal of Environmental Analytical Chemistry	102	19		8467	8489	10.1080/03067319.2020.1849660	https://www.scopus.com/pages/publications/85096548534?origin=resultslist	Scopus
686	Singh Pawar M.; Raj A.; Kumar Singh A.; Tuli V.; Anshul A.; Kumar M.	Lead-free 'Ca' doped Bi0.80La0.20FeO3 multiferroic material for solar cell applications	2022	Materials Today: Proceedings	67			713	718	10.1016/j.matpr.2022.06.580	https://www.scopus.com/pages/publications/85134780465?origin=resultslist	Scopus
687	Kumar A.; Swati; Kumar M.; Singh R.P.	Effect of spin orbit coupling on opto-electronic and magnetic properties of full Heusler alloy, Ru2CrAl for spintronic and optical devices: Theoretical investigations using DFT	2022	Optik	249		168250			10.1016/j.ijleo.2021.168250	https://www.scopus.com/pages/publications/85118541132?origin=resultslist	Scopus
688	Vishvakarma V.K.; Pal S.; Singh P.; Bahadur I.	Interactions between main protease of SARS-CoV-2 and testosterone or progesterone using computational approach	2022	Journal of Molecular Structure	1251		131965			10.1016/j.molstruc.2021.131965	https://www.scopus.com/pages/publications/85120345330?origin=resultslist	Scopus
689	Kumar D.; Kumari K.; Chandra R.; Jain P.; Vodwal L.; Gambhir G.; Singh P.	A review targeting the infection by CHIKV using computational and experimental approaches	2022	Journal of Biomolecular Structure and Dynamics	40	17		8127	8141	10.1080/07391102.2021.1904004	https://www.scopus.com/pages/publications/85103431546?origin=resultslist	Scopus
690	Singh N.; Banerjee K.; Gupta M.; Bainsla Y.K.; Pandit V.U.; Singh P.; Uke S.J.; Kumar A.; Mardikar S.P.; Kumar Y.	Concentration dependent electrochemical performance of aqueous choline chloride electrolyte	2022	Materials Today: Proceedings	53			161	167	10.1016/j.matpr.2021.12.486	https://www.scopus.com/pages/publications/85127294755?origin=resultslist	Scopus
691	Kaura R.; Kishor N.; Rajput N.	Causal relation and dynamic volatility spillover between commodity market and stock market: empirical evidence from India	2022	Afro-Asian Journal of Finance and Accounting	12	2		232	253	10.1504/AAJFA.2022.123053	https://www.scopus.com/pages/publications/85131201018?origin=resultslist	Scopus

692	Sachan P.; Suraj M.S.; Aggarwal R.; Asique M.C.; Mittal A.	On the axisymmetric restricted five-body problem within the frame of variable mass: The convex case	2022	New Astronomy	92		101697			10.1016/j.newast.2021.101697	https://www.scopus.com/pages/publications/85117401496?origin=resultslist	Scopus
693	Kumari N.; Adhikari A.; Singh D.; Bhagat S.; Ojha H.; Tiwari A.K.	Benzoxazolone-arylpiperazinyl scaffold-based PET ligand for 5-HT7: Synthesis and biological evaluation	2022	Drug Development Research	83	4		1024	1033	10.1002/ddr.21930	https://www.scopus.com/pages/publications/85126052974?origin=resultslist	Scopus
694	Chitralekha; Maurya I.; Gupta T.; Shankar S.; Gaurav S.; Tuli V.; Shah J.; Kotnala R.K.	Dielectric and impedance studies of binary ZnO–CuO nanocomposites for hydroelectric cell application	2022	Materials Chemistry and Physics	291		126690			10.1016/j.matchemphys.2022.126690	https://www.scopus.com/pages/publications/85137050760?origin=resultslist	Scopus
695	Khan Z.R.; Alshammari A.S.; Shkir M.; Bouzidi M.; Mohamed M.; Kumar M.; Sonker R.K.	Effect of Ag doping on structural, morphological and optical properties of CdO nanostructured thin films	2022	Physica B: Condensed Matter	632		413762			10.1016/j.physb.2022.413762	https://www.scopus.com/pages/publications/85125516250?origin=resultslist	Scopus
696	Singh H.N.; Swarup V.; Dubey N.K.; Jha N.K.; Singh A.K.; Lo W.-C.; Kumar S.	Differential Transcriptome Profiling Unveils Novel Deregulated Gene Signatures Involved in Pathogenesis of Alzheimer's Disease	2022	Biomedicines	10	3	611			10.3390/biomedicines10030611	https://www.scopus.com/pages/publications/85126690687?origin=resultslist	Scopus
697	Singh G.; Alam M.; Kumar Y.; Husain S.	Highly Capacitive Mesoporous Polyaniline Spheres as Scalable and High Electrochemical Performance Supercapacitor Electrode	2022	ChemistrySelect	7	11	e202200386			10.1002/slct.202200386	https://www.scopus.com/pages/publications/85126772215?origin=resultslist	Scopus
698	Raj A.; Kumar M.; Kumar A.; Laref A.; Singh K.; Sharma S.; Anshul A.	Effect of doping engineering in TiO2 electron transport layer on photovoltaic performance of perovskite solar cells	2022	Materials Letters	313		131692			10.1016/j.matlet.2022.131692	https://www.scopus.com/pages/publications/85122979183?origin=resultslist	Scopus
699	Jain P.; Vishvakarma V.K.; Singh P.; Chandra S.; Kumar D.; Misra N.	Co(II) and Ni(II) Complexes of a Heterocyclic Ligand: Synthesis, Characterization, Docking and Biological Activity	2022	Iranian Journal of Science and Technology, Transaction A: Science	46	3		793	805	10.1007/s40995-022-01312-7	https://www.scopus.com/pages/publications/85131603825?origin=resultslist	Scopus

700	Kushawaha D.; Yadav S.; Singh D.K.; Behera P.K.	THERMO-DIFFUSION MHD CONVECTION IN ENCLOSURE USING HEAT AND MASS LINES VISUALIZATION TECHNIQUES	2022	Journal of Applied Mathematics and Computational Mechanics	21	2		63	76	10.17512/jamcm.2022.2.06	https://www.scopus.com/pages/publications/85142236876?origin=resultslist	Scopus
701	Luthra S.; Chauhan H.V.S.; Tyagi B.K.; Tunc C.	Covering properties by (a)-θ-open sets in (a)topological spaces	2022	Palestine Journal of Mathematics	11	2		531	541		https://www.scopus.com/pages/publications/85130795434?origin=resultslist	Scopus
702	Raj A.; Kumar M.; Kumar A.; Laref A.; Anshul A.	Investigating the potential of lead-free double perovskite Cs2AgBiBr6 material for solar cell applications: A theoretical study	2022	International Journal of Energy Research	46	10		13801	13819	10.1002/er.8099	https://www.scopus.com/pages/publications/85130434493?origin=resultslist	Scopus
703	Singh M.B.; Vishvakarma V.K.; Lal A.A.; Chandra R.; Jain P.; Singh P.	A comparative study of 5- fluorouracil, doxorubicin, methotrexate, paclitaxel for their inhibition ability for Mpro of nCoV: Molecular docking and molecular dynamics simulations	2022	Journal of the Indian Chemical Society	99	12	100790			10.1016/j.jics.2022.100790	https://www.scopus.com/pages/publications/85141538536?origin=resultslist	Scopus
704	Thamke V.; Singh P.; Pal S.; Chaudhary M.; Kumari K.; Bahadur I.; Varma R.S.	Current toxicological insights of ionic liquids on various environmental living forms	2022	Journal of Environmental Chemical Engineering	10	2	107303			10.1016/j.jece.2022.107303	https://www.scopus.com/pages/publications/85124215986?origin=resultslist	Scopus
705	Bansal R.; Kumar Mishra S.; Kumar Y.; Uke S.J.; Mardikar S.P.; Pandit V.U.	Investigation for conductor loss calculation including effect of adhesive layer of titanium in microwave, millimetre and terahertz frequency range	2022	Materials Today: Proceedings	53			76	79	10.1016/j.matpr.2021.12.339	https://www.scopus.com/pages/publications/85127274312?origin=resultslist	Scopus
706	Jain P.; Shankar S.; Thakur O.P.	Dielectric, impedance spectroscopy and hydroelectric phenomena in lanthanum doped bismuth ferrite (Bi0.85La0.15FeO3)	2022	Materials Today: Proceedings	67			742	747	10.1016/j.matpr.2022.07.129	https://www.scopus.com/pages/publications/85134819625?origin=resultslist	Scopus
707	Lamba P.; Singh P.; Singh P.; Kumar A.; Singh P.; Bharti; Kumar Y.; Gupta M.	Simple and rapid eco-friendly synthesis of NiO/RGO nanocomposites using guava leaf extract and their physicochemical characterization	2022	Materials Today: Proceedings	68			2705	2714	10.1016/j.matpr.2022.06.241	https://www.scopus.com/pages/publications/85133676427?origin=resultslist	Scopus

708	Luthra S.; Chauhan H.V.S.; Tyagi B.K.	COVERING PROPERTIES BY (a)-SEMI-OPEN SETS IN (a)TOPOLOGICAL SPACES	2022	Missouri Journal of Mathematical Sciences	34	2		146	167	10.35834/2022/3402146	https://www.scopus.com/pages/publications/85143525408?origin=resultslist	Scopus
709	Katiyar S.; Jogi J.	Subthreshold modeling of ambipolar organic field-effect transistor based on field-dependent mobility	2022	Materials Today: Proceedings	67			663	667	10.1016/j.matpr.2022.06.348	https://www.scopus.com/pages/publications/85133342469?origin=resultslist	Scopus
710	Singh A.P.; Mishra M.; Ohlan A.; Dhawan S.K.	Electromagnetic Interference Shielding and its Evaluation	2022	Smart Materials Design for Electromagnetic Interference Shielding Applications				1	58	10.2174/9789815036428122010104	https://www.scopus.com/pages/publications/85174954152?origin=resultslist	Scopus
711	Upadhyay M.; Murugavel S.	Investigating the Defective Structural Sites in Ge–Sb–Te-Based Phase Change Memory Materials	2022	Springer Proceedings in Materials	14			51	58	10.1007/978-981-16-5971-3_6	https://www.scopus.com/pages/publications/85127884828?origin=resultslist	Scopus
712	Mishra M.; Singh A.P.; Dhawan S.K.	Graphene and its Derivatives Based Nanocomposites as Potential Candidate to Swallow Microwave Pollution	2022	Smart Materials Design for Electromagnetic Interference Shielding Applications				271	314	10.2174/9789815036428122010109	https://www.scopus.com/pages/publications/85211258199?origin=resultslist	Scopus
713	Shankar S.; Tuli V.; Gaurav S.; Thakur O.P.; Jayasimhadri M.	Variable Dielectric and Ferroelectric Properties in Size-Controlled Cobalt Ferrite	2022	Springer Proceedings in Materials	14			35	40	10.1007/978-981-16-5971-3_4	https://www.scopus.com/pages/publications/85127857119?origin=resultslist	Scopus
714	Kumar A.; Kumari K.; Raman A.P.S.; Jain P.; Kumar D.; Singh P.	An insight for the interaction of drugs (acyclovir/ganciclovir) with various ionic liquids: DFT calculations and molecular docking	2022	Journal of Physical Organic Chemistry	35	1	e4287			10.1002/poc.4287	https://www.scopus.com/pages/publications/85115827333?origin=resultslist	Scopus

715	Pal S.; Chaudhary M.; Jain P.; Singh P.; Kumari Yadav A.; Singh S.K.; Bahadur I.	An involvement of ionic liquids and other small molecules as promising corrosion inhibitors in recent advancement of technologies in chemical industries	2022	Advanced Applications of Ionic Liquids				223	245	10.1016/B978-0-323-99921-2.00004-5	https://www.scopus.com/pages/publications/85150097512?origin=resultslist	Scopus
716	Yadav S.; Sharma K.; Ravichandran V.	Radius of starlikeness for some classes containing non-univalent functions	2022	Asian-European Journal of Mathematics	15	1	2E+06			10.1142/S1793557122500097	https://www.scopus.com/pages/publications/85104554628?origin=resultslist	Scopus
717	Lamba P.; Singh P.; Singh P.; Singh P.; Bharti; Kumar A.; Gupta M.; Kumar Y.	Recent advancements in supercapacitors based on different electrode materials: Classifications, synthesis methods and comparative performance	2022	Journal of Energy Storage	48		103871			10.1016/j.est.2021.103871	https://www.scopus.com/pages/publications/85122516928?origin=resultslist	Scopus
718	Babu Singh M.; Jain P.; Tomar J.; Kumar V.; Bahadur I.; Arya D.K.; Singh P.	An In Silico investigation for acyclovir and its derivatives to fight the COVID-19: Molecular docking, DFT calculations, ADME and td-Molecular dynamics simulations	2022	Journal of the Indian Chemical Society	99	5	100433			10.1016/j.jics.2022.100433	https://www.scopus.com/pages/publications/85127473719?origin=resultslist	Scopus
719	Raj A.; Kumar M.; Anshul A.	Recent Progress in Cesium-Based Lead-Free Halide Double Perovskite Materials for Photovoltaic Applications	2022	Physica Status Solidi (A) Applications and Materials Science	219	22	2E+06			10.1002/pssa.202200425	https://www.scopus.com/pages/publications/85138241697?origin=resultslist	Scopus
720	Punia T.; Sharma D.; Malik H.K.	THz Radiation Generation Through Graphite Nanoparticles Having Two Different Shapes and Orientations of Basal Planes	2022	IEEE Transactions on Plasma Science	50	4		1087	1096	10.1109/TPS.2022.3156611	https://www.scopus.com/pages/publications/85127070991?origin=resultslist	Scopus
721	Singh N.; Banerjee K.; Bainsla Y.K.; Singh M.K.; Gupta M.; Kumar A.; Singh P.; Uke S.J.; Mardikar S.P.; Pandit V.U.; Kumar Y.	Preparation of electrochemically stable choline chloride-sugar based sustainable electrolytes and study of effect of water on their electrochemical behaviour	2022	Materials Today: Proceedings	53			179	184	10.1016/j.matpr.2021.12.496	https://www.scopus.com/pages/publications/85127286861?origin=resultslist	Scopus
722	Sreelakshmi R.; Sinha A.; Mandal S.K.	COVID-19-related Uncertainty, Investor Sentiment, and Stock Returns in India	2022	Economic and Political Weekly	57	35		53	61		https://www.scopus.com/pages/publications/85138618539?origin=resultslist	Scopus

723	Rajput N.; Sharma U.; Kaur B.; Rani P.; Tongkachok K.; Dornadula V.H.R.	Current global green marketing standard: changing market and company branding	2022	International Journal of System Assurance Engineering and Management	13			727	735	10.1007/s13198-021-01604-y	https://www.scopus.com/pages/publications/85122320963?origin=resultslist	Scopus
724	Suraj M.S.; Alhowaity S.; Aggarwal R.; Asique M.C.; Mittal A.; Jain M.	On the topology of basins of convergence linked to libration points in the modified R3BP with oblateness	2022	New Astronomy	94		101776			10.1016/j.newast.2022.101776	https://www.scopus.com/pages/publications/85125401763?origin=resultslist	Scopus
725	Kumar A.; Swati; Kumar M.; Srivastava N.; Atul A.K.	Nanoscale Characterization	2022	Fundamentals of Low Dimensional Magnets				245	268	10.1201/9781003197492-13	https://www.scopus.com/pages/publications/85194026828?origin=resultslist	Scopus
726	Dahiya A.; Thakur O.P.; Singh A.K.	Ferroelectric Behavior of Mn Substituted KNN Ceramics	2022	Springer Proceedings in Materials	14			227	233	10.1007/978-981-16-5971-3_25	https://www.scopus.com/pages/publications/85127878477?origin=resultslist	Scopus
727	Yadav S.; Singh Raman A.P.; Meena H.; Goswami A.G.; Bhawna; Kumar V.; Jain P.; Kumar G.; Sagar M.; Rana D.K.; Bahadur I.; Singh P.	An Update on Graphene Oxide: Applications and Toxicity	2022	ACS Omega	7	40		35387	35445	10.1021/acsomega.2c03171	https://www.scopus.com/pages/publications/85139207374?origin=resultslist	Scopus
728	Luthra S.; Chauhan H.V.S.; Tyagi B.K.	Selective Version of Star-Semi-Lindelofness in (a) Topological Spaces	2022	Tatra Mountains Mathematical Publications	8	1		39	56	10.2478/tmmp-2022-0002	https://www.scopus.com/pages/publications/85144049680?origin=resultslist	Scopus
729	Jharwal S.; Kumar Singh P.; Kumar Rana D.; Kumar Srivastava M.; Kumar A.	Structural and magnetic properties of Cu and Mn co-doped NiO nanoparticles	2022	Materials Today: Proceedings	67			648	651	10.1016/j.matpr.2022.06.194	https://www.scopus.com/pages/publications/85132912991?origin=resultslist	Scopus
730	Meena S.; Jogi J.	Monolayer Transition Metal Oxides (MTMOs): CoO, FeO and NiO—A First Principles Study	2022	Springer Proceedings in Materials	14			59	70	10.1007/978-981-16-5971-3_7	https://www.scopus.com/pages/publications/85127899171?origin=resultslist	Scopus

731	Luthra S.; Chauhan H.V.S.; Tyagi B.K.	THE BI-CLP-COMPACT-OPEN TOPOLOGY ON FUNCTION SPACES	2022	Questions and Answers in General Topology	40	2		113	123		https://www.scopus.com/pages/publications/85203670961?origin=resultslist	Scopus
732	Vishvakarma V.K.; Singh M.B.; Jain P.; Kumari K.; Singh P.	Hunting the main protease of SARS-CoV-2 by plitidepsin: Molecular docking and temperature-dependent molecular dynamics simulations	2022	Amino Acids	54	2		205	213	10.1007/s00726-021-03098-1	https://www.scopus.com/pages/publications/85119586720?origin=resultslist	Scopus
733	Kumari K.; Yadav R.; Kumar D.; Vishvakarma V.K.; Singh P.; Kumar V.; Bahadur I.	Role of Nanocatalysts in Biofuel Production and Comparison with Traditional Catalysts	2022	Advanced Nanocatalysts for Biodiesel Production				265	288	10.1201/9781003120858-12	https://www.scopus.com/pages/publications/85195944504?origin=resultslist	Scopus
734	Singh Raman A.P.; Jain P.; Kumar A.; Tomar J.; Kaushik N.; Choi E.H.; Kaushik N.K.; Negadi L.; Singh P.	Investigate oxoazolidine-2,4-dione based eutectic mixture via DFT calculations and SAR	2022	Journal of the Indian Chemical Society	99	8	100570			10.1016/j.jics.2022.100570	https://www.scopus.com/pages/publications/85132708884?origin=resultslist	Scopus
735	Motla A.; Sharma Kaushik A.; Tomar M.; Gupta V.	Effect of Sonication of GO in Acetone for the Fabrication of RGO Powder and Thin Film	2022	Springer Proceedings in Materials	14			97	103	10.1007/978-981-16-5971-3_11	https://www.scopus.com/pages/publications/85127924187?origin=resultslist	Scopus
736	Sadiq M.; Khan M.A.; Hasan Raza M.M.; Aalam S.M.; Zulfequar M.; Ali J.	Enhancement of Electrochemical Stability Window and Electrical Properties of CNT-Based PVA-PEG Polymer Blend Composites	2022	ACS Omega	7	44		40116	40131	10.1021/acsomega.2c04933	https://www.scopus.com/pages/publications/85141458330?origin=resultslist	Scopus
737	Kubba R.; Yadav O.; Maji S.; Fridman N.; Kumar A.	Synthesis, structural characterizations, electrochemical properties and DFT calculations of highly fluorescent phosphorus(V) corroles	2022	Journal of Molecular Structure	1269		133780			10.1016/j.molstruc.2022.133780	https://www.scopus.com/pages/publications/85135116524?origin=resultslist	Scopus
738	Shivesh K.; Alam I.; Kushwaha A.K.; Kumar M.; Singh S.V.	Investigating the theoretical performance of Cs2TiBr6-based perovskite solar cell with La-doped BaSnO3 and CuSbS2 as the charge transport layers	2022	International Journal of Energy Research	46	5		6045	6064	10.1002/er.7546	https://www.scopus.com/pages/publications/85121420676?origin=resultslist	Scopus
739	Naorem R.S.; Singh N.P.; Shagolsem B.S.; Singh N.H.; Gogoi J.; Singh N.M.	Effect of annealing temperatures on the structural and photoluminescence properties of Tb3+ ions doped BiPO4 nanophosphors	2022	Materials Technology	37	12		2289	2299	10.1080/10667857.2022.2029289	https://www.scopus.com/pages/publications/85124892589?origin=resultslist	Scopus

740	Tyagi S.; Kumar A.; Kumar A.; Gautam Y.K.; Kumar V.; Kumar Y.; Singh B.P.	Enhancement in the sensitivity and selectivity of Cu functionalized MoS2 nanoworm thin films for nitrogen dioxide gas sensor	2022	Materials Research Bulletin	150		111784			10.1016/j.materresbull.2022.111784	https://www.scopus.com/pages/publications/85124503790?origin=resultslist	Scopus
741	Vikal M.; Shah S.; Singh N.; Gupta M.; Verma A.; Singh P.; Kumar Y.	Graphitic carbon nitride based heterojunction nanocomposite for degradation of organic dyes	2022	Materials Today: Proceedings	68			2730	2736	10.1016/j.matpr.2022.07.066	https://www.scopus.com/pages/publications/85141907428?origin=resultslist	Scopus
742	Taneja N.; Kumar A.; Gupta P.; Gupta M.; Singh P.; Bharti; Agrawal N.; Bocchetta P.; Kumar Y.	Advancements in liquid and solid electrolytes for their utilization in electrochemical systems	2022	Journal of Energy Storage	56		105950			10.1016/j.est.2022.105950	https://www.scopus.com/pages/publications/85140805665?origin=resultslist	Scopus
743	Kumar S.; Sharma R.; Bhawna; Gupta A.; Singh P.; Kalia S.; Thakur P.; Kumar V.	Prospects of Biosensors Based on Functionalized and Nanostructured Solitary Materials: Detection of Viral Infections and Other Risks	2022	ACS Omega	7	26		22073	22088	10.1021/acsomega.2c01033	https://www.scopus.com/pages/publications/85134617727?origin=resultslist	Scopus
744	Kumar G.; Tyagi B.K.	Remarks on Semi-Menger and Star Semi-Menger Spaces	2022	Tatra Mountains Mathematical Publications	8	1		57	68	10.2478/tmmp-2022-0003	https://www.scopus.com/pages/publications/85144061586?origin=resultslist	Scopus
745	Sadiq M.; Raza M.M.H.; Zulfequar M.; Ali M.; Ali J.	Investigation of Magnesium Ion and Cellulose Acetate-Based Conducting Biopolymers: Electrical and Ion Transport Properties	2022	Springer Proceedings in Materials	14			17	26	10.1007/978-981-16-5971-3_2	https://www.scopus.com/pages/publications/85127851988?origin=resultslist	Scopus
746	Raman A.P.S.; Singh M.B.; Chaudhary M.; Bahdur I.; Jain P.; Kaushik N.; Choi E.H.; Kaushik N.K.; Lal A.A.; Singh P.	DFT calculations, molecular docking and SAR investigation for the formation of eutectic mixture using thiourea and salicylic acid	2022	Journal of Molecular Liquids	362		119650			10.1016/j.molliq.2022.119650	https://www.scopus.com/pages/publications/85133288468?origin=resultslist	Scopus
747	Sengar S.K.; Singh V.; Kulriya P.K.; Khauja M.; Kumar A.	Synthesis of Deformation Resistant Palladium (Pd) Nanoparticle Layer	2022	Springer Proceedings in Physics	271			75	84	10.1007/978-981-16-7691-8_7	https://www.scopus.com/pages/publications/85127035205?origin=resultslist	Scopus
748	Himani; Pratap Singh Raman A.; Babu Singh M.; Jain P.; Chaudhary P.; Bahadur I.; Lal K.; Kumar V.; Singh P.	An update on synthesis, properties, applications and toxicity of the ILs	2022	Journal of Molecular Liquids	364		119989			10.1016/j.molliq.2022.119989	https://www.scopus.com/pages/publications/85136051115?origin=resultslist	Scopus

749	Kumar A.; Tyagi S.; Kumar R.; Sharma S.; Sharma M.; Adalati R.; Kumar Y.; Chandra R.	Catalyst-free grown carbonaceous MoS2 nanoworm electrodes for symmetrical supercapacitors	2022	Materials Letters	323		132576			10.1016/j.matlet.2022.132576	https://www.scopus.com/pages/publications/85131460274?origin=resultslist	Scopus
750	Jain P.; Singh P.; Singh M.B.	Fundamental of Advanced Oxidation Processes	2022	Sustainable Textiles: Production, Processing, Manufacturing and Chemistry	Part F8142			1	19	10.1007/978-981-19-0987-0_1	https://www.scopus.com/pages/publications/105036187801?origin=resultslist	Scopus
751	Tarique H.; Shahid R.; Singh P.; Pandey R.; Singh P.	Effect of potassium substitution at Sr-site on the structural, morphological and electrical properties in Sr3 − 3x K3x Si3O9 (0.0 ≤ x ≤ 0.2) trimer strontium meta-silicate	2022	Journal of Materials Science: Materials in Electronics	33	18		14961	14971	10.1007/s10854-022-08413-4	https://www.scopus.com/pages/publications/85131315613?origin=resultslist	Scopus
752	Moditma; Malik R.; Reddy V.R.; Vas J.V.; Medwal R.; Annapoorni S.	Designed Synthesis of FexCo100-xAlloy Nanoparticles by Polyol Reduction: An Evolution of Structural, Morphological and Magnetic Properties	2022	IEEE Transactions on Magnetics	58	8	2E+06			10.1109/TMAG.2022.3151884	https://www.scopus.com/pages/publications/85124838130?origin=resultslist	Scopus
753	Biswas A.; Deol R.S.; Jha B.K.; Jakka G.; Suguna M.R.; Thomson B.I.	Automated Banking Fraud Detection for Identification and Restriction of Unauthorised Access in Financial Sector	2022	3rd International Conference on Smart Electronics and Communication, ICOSEC 2022 - Proceedings				809	814	10.1109/ICOSEC54921.2022.9951931	https://www.scopus.com/pages/publications/85143718138?origin=resultslist	Scopus
754	Singh M.B.; Sharma R.; Kumar D.; Khanna P.; Mansi; Khanna L.; Kumar V.; Kumari K.; Gupta A.; Chaudhary P.; Kaushik N.; Choi E.H.; Kaushik N.K.; Singh P.	An understanding of coronavirus and exploring the molecular dynamics simulations to find promising candidates against the Mpro of nCoV to combat the COVID-19: A systematic review	2022	Journal of Infection and Public Health	15	11		1326	1349	10.1016/j.jiph.2022.10.013	https://www.scopus.com/pages/publications/85140297889?origin=resultslist	Scopus

755	Naorem R.S.; Singh N.P.; Singh N.M.	Synthesis of SnS2 photocatalysts and investigation of their photocatalytic activities under sun light irradiation	2022	Advances in Materials and Processing Technologies	8	4		4720	4730	10.1080/237406 8X.2022.207959 1	https://www.scopus.com/page s/publications/85131060737? origin=resultslist	Scopus
756	Gautam B.P.S.; Gondwal M.; Maurya R.R.; Singh P.; Prasad R.L.; Bahadur I.	Synthesis, spectroscopic, solid-state electrical conductivity, and thermal analysis of Cu(II) doped Zn(II) heterobimetallic complexes derived from 2,5-dichloro-3,6-bis-(methylamino)1,4-benzoquinone	2022	Colloids and Surfaces A: Physicochemical and Engineering Aspects	647		129071			10.1016/j.colsur fa.2022.129071	https://www.scopus.com/page s/publications/85129519116? origin=resultslist	Scopus
757	Bhawna; Kumar S.; Sharma R.; Gupta A.; Tyagi A.; Singh P.; Kumar A.; Kumar V.	Recent insights into SnO2-based engineered nanoparticles for sustainable H2generation and remediation of pesticides	2022	New Journal of Chemistry	46	9		4014	4048	10.1039/d1nj05 808h	https://www.scopus.com/page s/publications/85125850446? origin=resultslist	Scopus
758	Singh S.; Pandey R.; Verma O.N.; Singh P.	Development of La and Mo Co-Doped SrTiO3 as Novel Anode Material for Solid Oxide Fuel Cell Applications	2022	Springer Proceedings in Materials	14			283	292	10.1007/978-981-16-5971-3_31	https://www.scopus.com/page s/publications/85127908789? origin=resultslist	Scopus
759	Rajak A.K.; Nilam	A Fractional-Order Epidemic Model with Quarantine Class and Nonmonotonic Incidence: Modeling and Simulations	2022	Iranian Journal of Science and Technology, Transaction A: Science	46	4		1249	1263	10.1007/s40995-022-01339-w	https://www.scopus.com/page s/publications/85135808199? origin=resultslist	Scopus
760	Rawat K.; Vishwakarma A.K.; Jha K.	Multicolor emission and energy transfer dynamics in thermally stable Ca2Ga2SiO7:Tb3+/Eu3+ for warm w-LEDs application	2022	Optics and Laser Technology	145		107455			10.1016/j.optlast ec.2021.107455	https://www.scopus.com/page s/publications/85113934471? origin=resultslist	Scopus
761	Suraj M.S.; Aggarwal R.; Asique M.C.; Mittal A.	The influence of third order terms on basins of convergence in the Hénon–Heiles type system	2022	New Astronomy	94		101761			10.1016/j.newas t.2021.101761	https://www.scopus.com/page s/publications/85124184309? origin=resultslist	Scopus
762	Singh G.; Kumar Y.; Husain S.	Fabrication of Polyaniline Structures for Enhanced Supercapacitance: Effect of PANI Morphologies	2022	ECS Transactions	107	1		15843	15858	10.1149/10701. 15843ecst	https://www.scopus.com/page s/publications/85130532278? origin=resultslist	Scopus

763	Luthra S.; Tyagi B.K.	SOME REMARKS ON UNIFORM CONVERGENCE TOPOLOGY	2022	Questions and Answers in General Topology	40	1		43	52		https://www.scopus.com/pages/publications/85203716591?origin=resultslist	Scopus
764	Sadiq M.; Tanwar S.; Raza M.M.H.; Aalam S.M.; Sarvar M.; Zulfequar M.; Sharma A.L.; Ali J.	High performance of the sodium-ion conducting flexible polymer blend composite electrolytes for electrochemical double-layer supercapacitor applications	2022	Energy Storage	4	5	e345			10.1002/est2.345	https://www.scopus.com/pages/publications/85137122295?origin=resultslist	Scopus
765	Kumar S.; Bhawna; Sharma R.; Gupta A.; Dubey K.K.; Khan A.M.; Singhal R.; Kumar R.; Bharti A.; Singh P.; Kant R.; Kumar V.	TiO2 based Photocatalysis membranes: An efficient strategy for pharmaceutical mineralization	2022	Science of the Total Environment	845		157221			10.1016/j.scitotenv.2022.157221	https://www.scopus.com/pages/publications/85134379363?origin=resultslist	Scopus
766	Alka; Yadav S.; Singh P.; Jain P.	Polymeric membranes as sustainable material for water desalination: a review	2022	Desalination and Water Treatment	269			1	20	10.5004/dwt.2022.28753	https://www.scopus.com/pages/publications/85139637528?origin=resultslist	Scopus
767	Naorem R.S.; Singh N.P.; Singh N.M.	Photoluminescence properties of Tb3+ doped BiPO4 nanophosphor synthesised by co-precipitation method using ethylene glycol	2022	Materials Technology	37	8		610	617	10.1080/10667857.2020.1866919	https://www.scopus.com/pages/publications/85098553600?origin=resultslist	Scopus
768	Kumar M.; Tyagi B.K.	Cardinal invariants and special maps of quasicontinuous functions with the topology of pointwise convergence	2022	Applied General Topology	23	2		303	314	10.4995/agt.2022.16925	https://www.scopus.com/pages/publications/85139386287?origin=resultslist	Scopus
769	Kumar A.; Swati; Kumar M.; Chaudhary V.; Sharma G.; Singh V.P.; Singh R.P.	Magneto-Electronic and Optical Properties of Full Heusler Alloy, Y2FeSi: a First Principle Calculation With and Without Spin–Orbit Coupling Effect	2022	Journal of Superconductivity and Novel Magnetism	35	7		2079	2089	10.1007/s10948-022-06287-5	https://www.scopus.com/pages/publications/85130702610?origin=resultslist	Scopus
770	Upadhyay M.; Murugavel S.	Structural investigations on Ge2Sb2Te5 thin films using polarised Raman studies	2022	Materials Today: Proceedings	67			797	803	10.1016/j.matpr.2022.08.015	https://www.scopus.com/pages/publications/85136741469?origin=resultslist	Scopus
771	Sharma R.; Verma B.; Kumar S.; Gupta A.; Sahu P.K.; Singh P.; Kumar V.	Recent updates on applications of ionic liquids (ILs) for biomedical sciences	2022	Journal of the Iranian Chemical Society	19	8		3215	3228	10.1007/s13738-022-02544-5	https://www.scopus.com/pages/publications/85127162630?origin=resultslist	Scopus

1.Interactive Hands-on Training Program on "LaTeX for Mathematics: Scientific Dissertation and Project Report Writing" held on 22nd September 2025

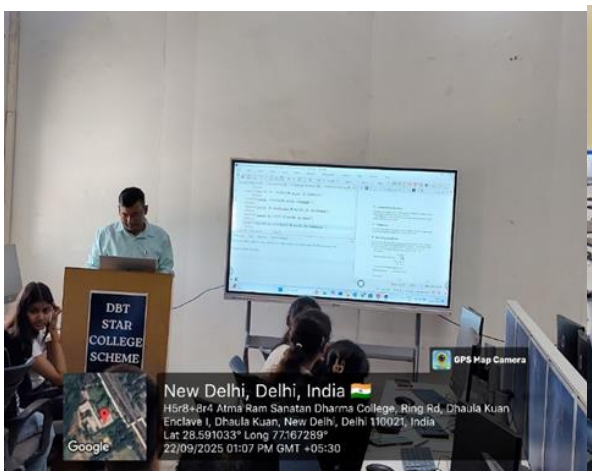
The Department of Mathematics, in collaboration with Quaternion – The Mathematics Society, organized an interactive hands-on training program titled **"LaTeX for Mathematics: Scientific Dissertation and Project Report Writing"** on 22 September 2025 under the aegis of IQAC and the DBT Star College Scheme.

The session was conducted by the guest speaker, **Dr. Surendra Kumar, Associate Professor in the Department of Mathematics, University of Delhi**. He provided comprehensive insights into LaTeX as a powerful typesetting software for academic and research writing.

He covered key aspects of LaTeX, including document structuring, mathematical typesetting, and the formatting of equations, tables, and references, while emphasizing its importance in preparing dissertations, research papers, and project reports.

The hands-on session enabled participants to practice essential commands and develop proficiency in writing mathematical content using LaTeX, thereby enhancing their technical and academic writing skills.

The program concluded with an interactive discussion and was highly informative and beneficial for the faculty and students.



2.Workshop on "Basics of Electronics Laboratory Instruments"

ElectroSpark, the Electronics Society of the Department of Electronics at Atma Ram Sanatan Dharma College (ARSD), under the aegis of the IQAC and STAR DBT College Scheme, successfully organized a workshop on "Basics of Electronics Laboratory Instruments" on 24th September 2025. The workshop was specifically designed for the non-teaching staff of the college, with the objective of enhancing their technical proficiency and practical understanding of commonly used electronic laboratory equipment.

The session was conducted by Mr. Saurav Kumar, Research Assistant, who brought valuable expertise and practical insights to the workshop. Through a structured and interactive approach, the speaker familiarized participants with the fundamental principles, operation, and

maintenance of essential laboratory instruments, thereby strengthening their ability to effectively support academic and experimental activities within the department.

1. Under the aegis of the **Internal Quality Assurance Cell (IQAC)** and the **STAR College Scheme, Department of Biotechnology, Government of India**, the **Department of Computer Science, ARSD College**, successfully organized a **two-day workshop titled "Machine Learning for Inclusive Development: Shaping India's Future" on September 24–25, 2025**. The workshop featured a distinguished lineup of eminent academicians and experts including **Prof. Pravin Chandra (GGSIPU), Prof. V. B. Singh (JNU), Prof. Aparna Mehra (IIT Delhi), Prof. Anup Singh (IIT Delhi), Prof. Sameer Anand (University of Delhi), Prof. Shyama Kant Jha (NSUT), Dr. Reshma Rastogi (South Asian University), and Dr. Om Pal (University of Delhi)**. The sessions covered important contemporary topics such as **Large Language Models, Software Evolution using Machine Learning, Statistical Foundations of Machine Learning, AI in Medical Imaging, Bayesian Approaches for Inclusive AI, the Future of AI/ML-Driven Society, Quantum Machine Learning, and Introduction to Quantum Computing**. The workshop concluded with a **valedictory session**, leaving participants with valuable insights into emerging technologies and their role in shaping India's future.
2. **Interactive Seminar on "Leveraging Mathematical Formalism and Bayesian Filtering for Precise Real -Time Drone Navigation" held on 28 August, 2025**

   The Department of Mathematics, under the aegis of IQAC and the DBT Star College Scheme, and in collaboration with Quaternion – The Mathematics Society, organized an interactive seminar on **"Leveraging Mathematical Formalism and Bayesian Filtering for Precise Real-Time Drone Navigation"** on August 28, 2025, followed by a Mathematics Orientation Programme.

   The guest speaker, Dr. Rahul Bansal, Assistant Professor in the Department of Electrical, Electronics and Communication Engineering at Galgotias University, Greater Noida, discussed the application of advanced mathematical models and Bayesian filtering in achieving accurate and efficient drone navigation. His talk was highly engaging and underscored the growing importance of mathematics in driving technological innovation.

   Following the seminar, a Mathematics Orientation Programme was conducted for newly admitted students. The session aimed to make students aware of the Mathematics Society and the DBT Star College Scheme, including their structure, activities, and upcoming opportunities. It served as an interactive platform offering guidance, motivation, and encouragement, while helping students connect with the department's culture of academic excellence.Overall, the event successfully combined academic insight with student orientation, encouraging participants to view mathematics as a vital tool for innovation and interdisciplinary problem-solving.

3. **Interactive Seminar on "Mathematics and Its Applications in Biology" held on 25th September 2025**

The Department of Mathematics, under the aegis of IQAC and the DBT Star College Scheme, and in collaboration with Quaternion – The Mathematics Society, organized an interactive seminar on **"Mathematics and Its Applications in Biology"** on 25 September 2025.

The program began with a traditional lamp-lighting ceremony, followed by an address by Prof. Gyantosh Kumar Jha, Principal of ARSD College, who highlighted the importance of interdisciplinary learning and the role of mathematics in solving complex biological problems.Prof. Vinita Tuli, Vice Principal, IQAC Coordinator, and DBT Star Coordinator, then spoke on the institution's commitment to research-oriented education and interdisciplinary collaboration.

The seminar featured talks by **Prof. Mukesh Kumar Sharma (Head, Department of Mathematics, CCS University, Meerut) and Prof. Sachin Kumar (Professor, Department of Mathematics, University of Delhi)**, who discussed applications of mathematical modelling, statistical methods, and computational tools in areas such as population dynamics, epidemiology, and genetics.Both the interactive sessions encouraged student participation and enhanced understanding of the practical applications of mathematics in biology.

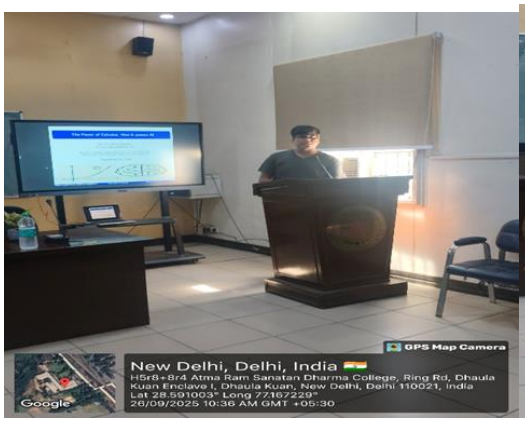
4. Interactive Workshop on "The Power of Calculus: Principles and Real-World Applications" held on 26th September 2025

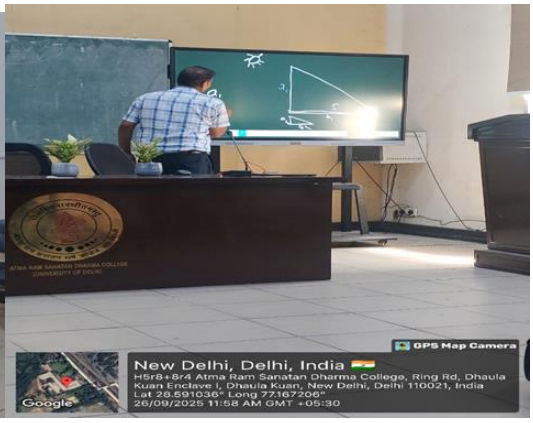
The Department of Mathematics, under the aegis of IQAC and the DBT Star College Scheme, and in collaboration with Quaternion – The Mathematics Society, organized an Interactive Workshop on **"The Power of Calculus: Principles and Real-World Applications"** on 26th September 2025.

The workshop featured distinguished speakers, **Dr. Ashish Kumar Pandey (Associate Professor, Department of Mathematics, IIIT Delhi)** and **Dr. Ashok Kumar (Associate Professor, Department of Mathematics, University of Delhi)**, who delivered engaging and informative sessions on the principles and real-world applications of calculus.

The speakers elaborated on fundamental concepts such as differentiation and integration, emphasizing their role in understanding change, optimization, and dynamic systems. Through practical examples and real-life applications, they demonstrated how calculus serves as a powerful tool in various fields including science, engineering, economics, and data analysis.

The interactive nature of the workshop encouraged active participation from students, enabling them to strengthen their conceptual understanding and enhance their problem-solving skills. The session also highlighted the relevance of calculus in modern research and technological advancements.





5.**Date of the Event:** 20th November, 2025

No. of participants: 107

Organized by: ChemCrown, Chemistry Society, Department of Chemistry, Atma Ram Sanatan Dharma College

Collaborating agency: Indraprastha Vigyan Bharati & Star

College Scheme (DBT)

Name of the speaker: Dr. Shweta Sharma, Ph.D., LLB.

Summary: ChemCrown, The Chemistry Society, Department of Chemistry, ARSD College, in collaboration with Indraprastha Vigyan Bharati, under the STAR COLLEGE scheme (DBT) and with the support of the Internal Quality Assurance Cell (IQAC), organized a workshop titled ***"Intellectual Property Rights with a Special Emphasis on Patents and Patentability Search"*** on November 20, 2025. The program began with a traditional lamp-lighting ceremony, Bharat Mata Pushp Arpan, and Saraswati Vandana, followed by a formal welcome for the dignitaries. Dr. Anil Kumar, Teacher In-charge of the Department of Chemistry, delivered the welcome speech and briefly outlined the department's objectives and academic vision.

The Vice-Principal, Prof. Vinita Tuli, then delivered a speech emphasizing the accomplishments of the IQAC and the College. Prof. Neel Sarovar Bhavesh, Senior Scientist at International Centre for Genetic Engineering and Biotechnology (ICGEB) and Vice President of Indraprastha Vigyan Bharati, New Delhi, delivered an insightful talk on the aims and contributions of VIBHA and spoke about the upcoming *India International Science Festival (IISF-2025)*, to be held in Chandigarh, Punjab, from December 6 to December 9, 2025.

The keynote speaker, **Dr. Shweta Sharma**, ***Principal Associate at Khurana & Khurana,Advocates and IP Attorneys,*** delivered an enriching session on Intellectual Property Rights, with an emphasis on patents, patentability searches, patent types, patent procedures, and job opportunities. Her talk offered valuable guidance to students and researchers and was wellreceived by all. The program concluded with an interactive

questionnaire session, during which students engaged with the speaker, followed by a Vote of Thanks from Dr. Nidhi Dureja. ECertificates were awarded to all participants to acknowledge their involvement in the workshop.

Poster:

E-Certificate:

Photographs:

Group Photos

6. **Hands-on Training in Bioinformatics**

Name of Program: Hands-on Training in Bioinformatics

Date & Time: 9th September 2025, 10:30 AM

No. of Participants: 40

Organized by: Bionomie (Department of Botany & Zoology) in collaboration with Department of Computer Science under the aegis of DBT Star College

Speaker Name: Dr. Archana Singh, Associate Professor, Department of Plant Molecular Biology, University of Delhi, South Campus

Summary

The Department of Botany and Zoology (Bionomie), in collaboration with the Department of Computer Science, ARSD College, organized a Hands-on Training in Bioinformatics on 9th September 2025 under the aegis of IQAC and DBT Star College Scheme. The session, themed "Bioinformatics as a Catalyst for One Health Research and Policy," featured Dr. Archana Singh, Associate Professor, Department of Plant Molecular Biology, University of Delhi (South Campus), as the invited speaker. The highlight of the event was the engaging lecture by Dr. Archana Singh, who provided valuable insights into the applications of bioinformatics in areas such as disease prediction, drug discovery, and integrated One Health approaches, while also stressing upon the ethical and policy-related dimensions of the field. Following the lecture, participants engaged in a hands-on training session, gaining practical exposure to bioinformatics tools and databases.

7.**Workshop on "Mushroom in Relation to Entrepreneurship"**

Name of Program: Workshop on "Mushroom in Relation to Entrepreneurship"

Date & Time: 17th September 2025, 10:00 AM

No. of Participants: 58

Organized by: Bionomie (Department of Botany & Zoology) under IQAC and DBT Star College Scheme

Speaker Name: Prof. Rajni Gupta, Department of Botany, Kirori Mal College, University of Delhi

Summary

The Department of Botany and Zoology, under the aegis of IQAC and the DBT Star College Scheme, organized a workshop on "Mushroom in Relation to Entrepreneurship" on 17th September 2025 at Seminar Hall 2, ARSD College. The event was conducted under the banner of Bionomie, the Departmental society of Botany and Zoology. Prof. Rajni Gupta delivered an insightful session. She elaborated on the economic potential of mushroom cultivation, its low investment requirements, and its role in promoting sustainable livelihood. She also discussed the celebration of Nutrition Pakhwada by the Government of India and its importance. In addition to the lecture, the workshop also included a hands-on practical demonstration where participants were shown the step-by-step process of preparing substrate, inoculating spawn, and managing growth conditions


Atma Ram Sanatan Dharma College
University of Delhi
Accredited A++ by NAAC | NIRF Rank 7th (MOU)
Under the aegis of IQAC and DBT Star College Scheme
BIONOMIE
Department of Botany and Zoology
presents
A WORKSHOP ON
"Mushroom in Relation to Entrepreneurship"
Guest Speaker
Prof. Rajni Gupta
Department of Botany,
Kirori Mal College, University of Delhi
Seminar hall 2
10.00 am
17th Sept, 2025
SCAN ME
Dr. Anita Singh (Bionomie Convenor)
Prof. Vinita Tuli (Vice Principal, IQAC Coordinator & DBT Star Coordinator)
Prof Gyantosh Kr Jha (Principal)
Organising Committee
Dr. Vibha Narang
Dr. Swati M. Biswas
Dr. Kanchan Srivastava
Dr. Nupur Mondal


GPS Map Camera
ATMA RAM SANATAN DHARMA COLLEGE,
Dhaula Kuan Enclave I, Dhaula Kuan, New Delhi,
Delhi 110021, India
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Google


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Delhi 110021, India
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GPS Map Camera
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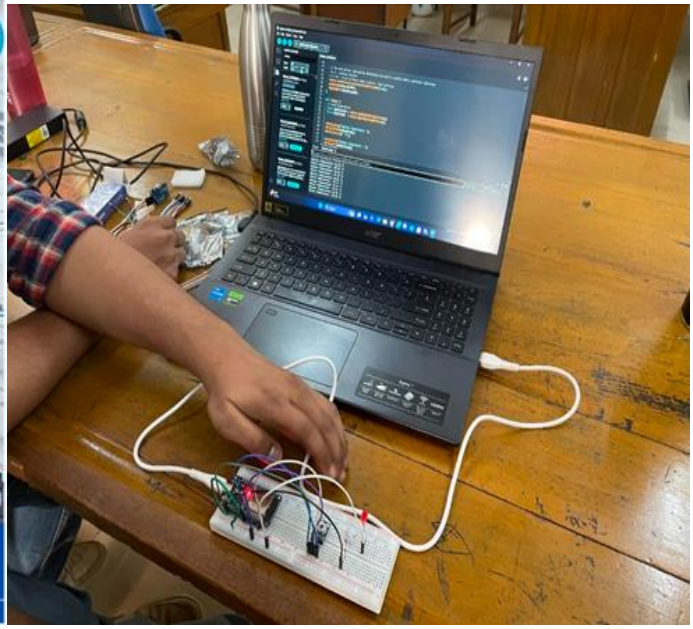
8.Workshop on "IoT Application & Peripheral Interfacing".

ElectroSpark, the Electronics Society of ARSD College, under the aegis of IQAC and the STAR DBT College Scheme, organized a two-day hands-on workshop on "IoT Application & Peripheral Interfacing" on 19th and 20th August 2025.

The sessions were conducted by distinguished expert Mr. Arun Kumar (Co-Founder & Chief Operations Officer, SINCGRID, Delhi), who shared their expertise and guided participants through practical demonstrations and applications. The workshop helped in understanding both theoretical and practical aspects of IoT. It enhanced knowledge about sensor interfacing, data communication, and real-world applications. Such workshops are essential for developing skills in modern technologies.



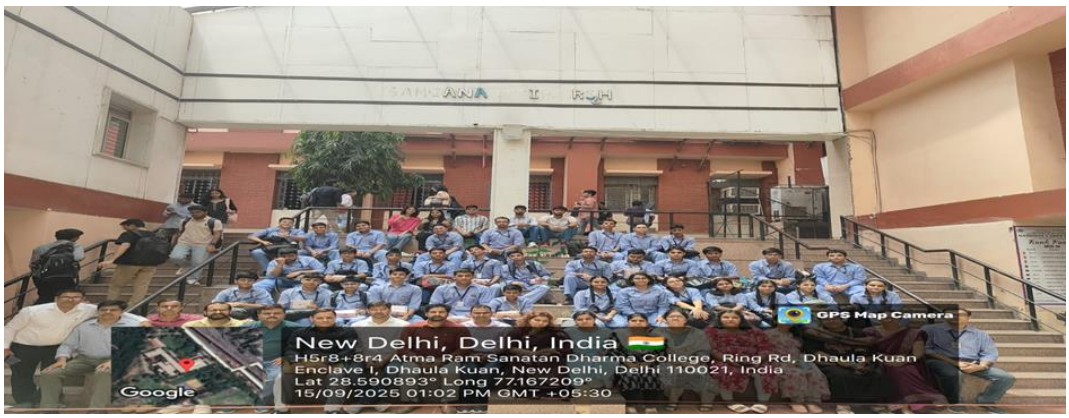
9.Workshop on "Designing Smart System: Bridging Electronics & IOT"

ElectroSpark, the Electronics Society of Atma Ram Sanatan Dharma College, in collaboration with the IEEE EDS Delhi Chapter, organized a two-day hands-on workshop titled "Designing Smart Systems: Bridging Electronics & IoT" on 19-20th November 2026.

The workshop focused on experiential learning, helping students understand modern electronic systems and IoT through interactive sessions and practical implementation.

Sessions were conducted by experts from Arista Vault Mr. Akhilesh Yadav (CTO), Mr. Mahendra Yadav (Embedded Engineer), and Mr. Ganesh Ganapathi (AI/ML & Data Analyst) who provided hands-on guidance and industry insights.

1. An outreach program was organized on **September 15, 2025**, at **Atma Ram Sanatan Dharma College, University of Delhi**, under the aegis of the **STAR College Scheme, Department of Biotechnology, Government of India**. The program aimed to ignite academic curiosity, promote interdisciplinary learning, and provide exposure to diverse scientific domains including **Computer Science, Mathematics, Physics, Chemistry, Electronics, and Life Sciences**. Students from **Cambridge Foundation School, Rajouri Garden**, particularly from the **IX and XII Science streams**, participated enthusiastically in interactive sessions, live demonstrations, and hands-on activities. The program also provided an opportunity for students to interact with faculty members and gain insights into higher education pathways and interdisciplinary career opportunities. Through this initiative, ARSD College successfully inspired young learners and encouraged them to pursue scientific inquiry and innovation.



2. A visit to the **Regional Centre for Biotechnology, Faridabad** was organised by Physics Department on 07 August 2025 which inspired students to pursue research as a career. At Indian Biological Data Centre, they learned data storage, security, and high-performance computing. Laboratory tour showcased advanced instruments like TEM,

SEM and sample preparation techniques. The students gained insights to the cutting-edge biological research, data infrastructure, and ongoing doctoral research projects.

3. **Tangentia'26 (Annual Mathematics Departmental Fest), comprising an interactive academic seminar and competitive, engaging events, held on 27 February 2026.**

Quaternion—The Mathematics Society, in collaboration with the DBT Star College Scheme, successfully organized its annual departmental fest, Tangentia'26, on 27 February 2026.

The event commenced with a traditional lamp-lighting ceremony, followed by an address by the Principal, Prof. Gyantosh Kumar Jha. The guest speaker, **Prof. Ralph Chill from TU Dresden, Germany,** delivered an insightful lecture on "The Exponential Function: Definitions and Applications," covering both theoretical foundations and practical applications, including growth models and differential equations. His engaging and interactive approach encouraged active student participation. The session concluded with a lively question-and-answer segment, making it a highly enriching academic experience.

Following the seminar, the fest featured a series of competitive and engaging events:

1. **Mathematician Banega Crorepati (MBC):** A quiz-based competition inspired by a popular game show format, testing participants' mathematical knowledge, logical reasoning, and problem-solving speed.
2. **Numerical Nightmare:** An escape-room-style event with a mathematical twist, where participants solved challenging problems under time constraints to progress through different stages.
3. **Bidding War:** A strategy-based competition requiring participants to make calculated decisions and apply logical thinking in a competitive setting.

All events witnessed enthusiastic participation from students across various colleges, fostering healthy competition, teamwork, and analytical thinking. Overall, Tangentia'26 was a successful blend of academic excellence and interactive learning, with the guest lecture serving as the highlight of the fest.

4. Electrospark, the Electronics Society of Atma Ram Sanatan Dharma College, successfully organized its Departmental Fest on 19th and 20th February 2026. The fest was designed to foster technical learning, encourage innovation, and enhance student engagement through a diverse range of activities, including hands-on workshops, competitions, and gaming events. The two-day fest witnessed enthusiastic participation from students, making it a vibrant and enriching experience.

The fest commenced with a Two-Day Hands-on Workshop titled "From Circuit to Clouds using Arduino and ESP32." The workshop was conducted by Mr. Narendra Sharma, Project Scientist at the Central Research Facility, IIT Delhi, and Mr. Puran Chandra Tiwari, Project Attendant at the Makerspace, IIT Delhi. The session provided participants with practical exposure to embedded systems, IoT development, and real-time applications. Students gained hands-on experience in working with Arduino and ESP32, bridging the gap between theoretical knowledge and practical implementation.

In addition to the workshop, a "Free Fire Tournament" was organized as part of the fest to promote team spirit and provide a recreational platform for students. The event attracted significant participation and created an atmosphere of excitement and healthy competition among the participants.

Another highlight of the fest was "Circuit-a-thon," a technical competition aimed at testing students' problem-solving abilities and circuit design skills. Participants showcased their creativity and technical expertise by developing innovative circuit-based solutions within a limited timeframe.

5.On 19th March 2026, the Electronics Association and IQAC of Atma Ram Sanatan Dharma (ARSD) College organized an educational visit to the Bharat Electricity Summit at Yashobhoomi – India International Convention & Expo Centre, Dwarka, New Delhi.

The visit provided students with exposure to advancements in the power and energy sector, including renewable energy, smart grids, and modern electrical technologies, along with insights from industry expert sessions.

6.Date of the Event: 30th January, 2026

No. of participants: 223

Organised by: ChemCrown, Chemistry Department society, Atma Ram Sanatan Dharma College

Collaborating agency: Indraprastha Vigyan Bharti & Star College Scheme (DBT)

Name of the speakers: Prof. (Dr). Manoj kumar Patairiya (Professor, NIAS, IISc, Bangalore) & Dr. Anup Kumar Das (Centre for Studies in Science Policy,JNU)

SUMMARY:

Summary

ChemCrown, The Chemistry Society, Department of Chemistry, ARSD College, in collaboration with Indraprastha Vigyan Bharati under the STAR COLLEGE SCHEME (DBT) organized a **One-day workshop on "Research Methodology with hands on training" on January 30, 2026**. The program started with the auspicious lamp lighting ceremony and Pushp Arpan to Maa Bharti and Saraswati Vandana, followed by a formal welcome to the dignitaries. Dr. Anil Kumar, Teacher In-charge, Department of Chemistry, welcomes the guest and briefly sketch out the achievement and future progress of department.

The Vice Principal, Prof. Vinita Tuli, then delivered a speech emphasizing the accomplishment of IQAC.

Followed by a speech by Principal, Prof Gyantosh Kumar Jha about the achievement and future progress of our college and Shri Aakash Shetty, Sangathan Mantri, Indraprastha Vigyan Bharati, New Delhi delivered an insightful talk on promoting a "Swadeshi Science" movement that blends modern scientific advancements with traditional Indian wisdom.

The Plenary Speaker, Dr. Manoj kumar Patairiya, Professor at National institution of advanced studies IISC campus Bangalore, delivered an impact full session on "research isn't complete until communication to stakeholders". His words offered valuable guidance to students, encouraging under graduate for research and scientific Department. The session was completed with an interactive question and answer session, followed by a Vote of Thanks from Dr. Nidhi Dureja. It Succeeded by another interesting session by Dr Anup Kumar Das, academic social science researcher, working with the centre for studies in science policy at Jawaharlal Nehru University, delivered an impactful session on "Research and publication ethics in 21st century". His talk offered valuable guidance to students and was well received by all. This session is also completed by thoughtful questionnaire, followed by Vote of Thanks by Dr Neeta Azad and Dr Sangeeta Aggarwal.

After lunch break hands on session started with active participation of participants.

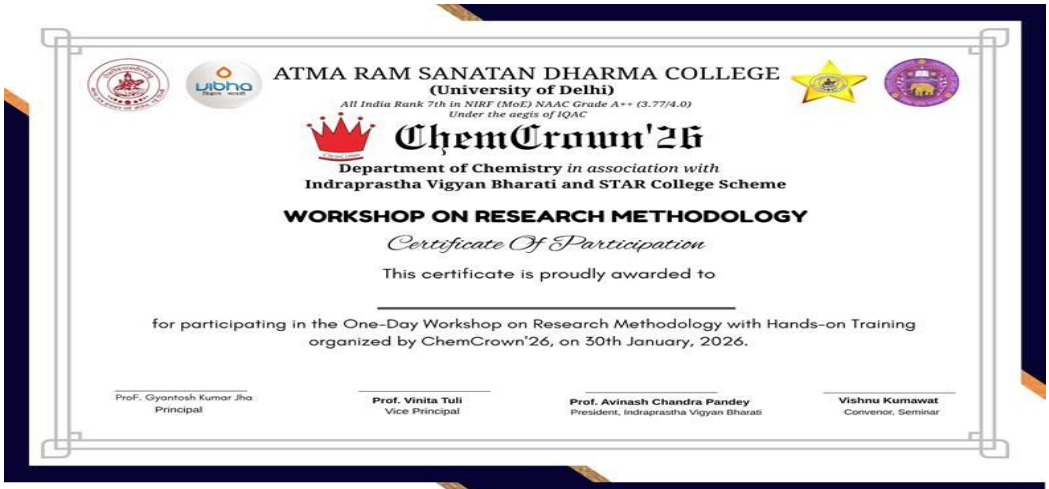
First hands on session were delivered by Dr Nidhi Dureja on "Navigating scholarly journal database for high quality research"

Next hands-on session was delivered by professor Rajiv Singh.

The workshop was completed by Valedictory Function where E -certificates were delivered to participants by Professor Rajiv Singh and Professor Vishnu Kumawat.

Poster:

CERTIFICATE



Photos

1.**Prakriti Parv Speaker Session**
Date & Time: **18-02-2026**

No. of the Participants: **60**

Organized by: Paritantrika: Eco Club of Atma Ram Sanatan Dharma College, University of Delhi in collaboration with STAR DBT

Speaker Name: Prof. Gyan Prakash Sharma

Summary

The speaker session was a highlight of Prakriti Parv, the flagship event organized by Paritantrika: Eco Club of ARSD College under the aegis of IQAC and DBT Star College Scheme.. Held on February 18, 2026, the session featured Prof. Gyan Prakash Sharma, who delivered an insightful talk on Biodiversity Conservation and Sustainability. Prof. Sharma shared valuable perspectives on the urgent need to protect our natural ecosystems, emphasizing practical approaches to sustainability.

2. Name of Program: Health Promoting Microbes for Sustainable Sources of Food and Nutrition Date of the Program: 13th February 2026

Time of the Program:
10:30 AM onwards No. of
Participants: 142
Organised By: INFINITIUM, Physical Sciences Society, ARSD College

Speaker Name: (Dr.) Amarjit Singh Sarpal, Professor of
Chemistry and Food Engineering
Federal University of Rio Grande
(UERG), Government of Brazil
Representative (2024-2029)
sarpal.as2@gmail.com

Summary:

INFINITUM, the vibrant Physical Science Society at Atma Ram Sanatan Dharma College, under the aegis of IQAC in association with the Star College Scheme to host an enlightening seminar on "Health Promoting Microbes for Sustainable Sources of Food and Nutrition" to embrace on multidisciplinary sciences. Our distinguished Chief Guest (Eminent Speaker), Prof. (Dr.) Amarjit Singh Sarpal; a Professor of Chemistry and Food Engineering at the Federal University of Rio Grande (UERG) and Federal Government of Brazil Representative (2024-2029), shared global level cutting-edge insights on harnessing beneficial microbes for eco-friendly food production, nutrition and shared several practical examples where Food Adulteration is done and how to detect it.

The program commenced with an auspicious Goddess Saraswati Ji's Shlok by the anchor, followed by a traditional lamp-lighting ceremony conducted by the honorable Principal sir, Prof. Gyantosh Kumar Jha, Prof. (Dr.) Amarjit Singh Sarpal, and esteemed faculty members including Dr. Anil Kumar (Chemistry Coordinator, Star College Scheme), Prof. Rajeev Singh, Dr. Vibha Narang and Dr. Kanchan Srivastava. The principal sir welcomed the gathering and addressed the audience, highlighting the Star College Scheme and provided feedback and a roadmap for the society to focus on scientific and research topics. The importance of food safety, sustainability, and scientific awareness in modern society was the backbone of the seminar.

The keynote session delivered by Prof. Sarpal focused on the significance of microorganisms, particularly microalgae, in sustainable development, vital contributors to oxygen production, carbon dioxide sequestration, and ecological balance. The speaker also discussed microbial cultivation, the structure and reproduction of microalgae, and their role in producing biomass, essential fatty acids, antioxidants, and other nutritionally important compounds.

Another major segment of the seminar addressed the issue of food adulteration. The speaker presented real-life examples and case studies, including incidents of synthetic milk, plastic rice and adulterated food products. Various simple detection tests, such as

iodine tests for starch, potassium permanganate tests, water tests for artificial colouring, and litmus paper tests, were demonstrated and discussed.

The session was highly interactive, with students actively participating and asking questions about food safety, microbial applications, and nutritional science. The discussion also covered healthy and unhealthy dietary fats, the importance of omega fatty acids, and the nutritional benefits of algae-based food supplements. A video demonstration of Food Adulteration check was also presented to the audience which was performed by the society members.

Photographs: