GBU Research Publications from January 2025 to May, 2025

S.NO.	TITLE OF THE ARTICLE	AUTHOR	JOURNALS NAME	VOLUME	ISSUE	Year	DOI
1	ADNet: deep learning based model for Alzheimer's disease classification	Upadhyay Prashant, Tomar Pradeep, Yadav Satya Prakash	Iran Journal of Computer Science			2025	10.1007/s42044-025-00243-x
2	Halomonas kashgarensis sp. nov., a Novel Species Isolated from the Rhizosphere Soil of Phragmites australis (Cav.) Trin. ex Steud in Kashgar County, Xinjiang, China	Liang Zhen-Pu, Wang Yi, Chen Xiao-Yue, Wang Rui, Xu Yan, Dai Jin-Ping, Singh Deepali, Zhang Xiao-Xia	Diversity	17	2	2025	10.3390/d17020098
3	Emerging Trends of Gold Nanostructures for Point-of-Care Biosensor-Based Detection of COVID-19	Yadav Akhilesh Kumar, Basavegowda Nagaraj, Shirin Saba, Raju Shiji, Sekar Rajkumar, Somu Prathap, Uthappa U.T, Abdi Gholamreza,	Molecular Biotechnology	67	4	2025	10.1007/s12033-024-01157-y
4	Antilipase and antioxidant activities of topiramate-phenolic acid conjugates: Computational modelling, synthesis, and in-vitro investigations	Padhy Ipsa, Banerjee Biswajit, Sharma Tripti, Achary P. Ganga Raju, Singh Nagendra, Chandra Anshuman	Biochemical and Biophysical Research Communications	745		A	10.1016/j.bbrc.2024.151200
5	Unraveling the Decay Dynamics of Heavy-Ion Induced Reactions Forming Lanthanide Nuclei at Low-Energy Regime	Kaur Manpreet, Jain Shivani, Grover Neha, Sharma, Kanishka, K. Sharma Manoj	Brazilian Journal of Physics	55	4	2025	10.1007/s13538-025-01775-0
6	Electrochemical monitoring of congo red degradation using strontium titanate-doped biochar nanohybrids derived photocatalytic plates	Mehtab Sameena, Zaidi M. G.H, Singh Ankit, Pandey Minakshi, Mahra Anjali, Sharma Shubham, Aziz Mohammad, Palariya Diksha, Singhal Barkha	Environmental Science and Pollution Research	32	12	2025	10.1007/s11356-023-28633-3
7	Advanced Operational Amplifier with Emerging CMOS Technology	Rahi Shiromani Balmukund, Song Young Suh, Kandpal Jyoti	Circuit Design for Modern Applications			2025	10.1201/9781003483052-8
8	Tailoring Gelatin Films: Functionality, Stability, and Beyond Biodegradability	Bhardwaj Nikita, Ashraf Mohd. Tashfeen, Maitra Jaya	Biopolymers	116	1	2025	10.1002/bip.23645
9	Recent Electron Mobility Models for FeFET	Rahi Shiromani Balmukund, Song Young Suh	FeFET Devices, Trends, Technology and Applications			2025	10.1002/9781394287307_12

10	Enhancing water quality management: the role of predictive modeling and IoT in monitoring, analysis, and intervention	Mathur Kartavya, Sharma Paridhi, Gaur Nisha, Kumar Shubham	Computational Automation for Water Security: Enhancing Water Quality Management			2025	10.1016/B978-0-443-33321-7.00008-1
11	Analyzing an Extreme Rainfall Event in Himachal Pradesh, India, to Contribute to Sustainable Development	Lohan Nitin, Kumar Sushil, Singh Vivek, Gupta Raj Pritam, Tiwari Gaurav	Sustainability (Switzerland)	17	5	2025	10.3390/su17052115
12	FeFET Devices, Trends, Technology and Applications	Raj Balwinder, Rahi Shiromani Balmukund, Yadav Nandakishor	FeFET Devices, Trends, Technology and Applications			2025	10.1002/9781394287307
13	Development of a multi-epitope vaccine candidate to combat SARS-CoV-2 and dengue virus co-infection through an immunoinformatic approach	Mandal Saurav, Chanu Waribam Pratibha, Natarajaseenivasan Kalimuthusamy	Frontiers in Immunology	16		2025	10.3389/fimmu.2025.1442101
14	Factors responsible for alpha-Synuclein aggregation	Singh Khuraijam Surjalal, Verma Rahul, Singh Nagendra, Singh Laishram Rajendrakumar, Gupta Akshita	Progress in Molecular Biology and Translational Science	211		2025	10.1016/bs.pmbts.2024.11.004
15	Regeneration Potential in Plants	Pandey Dhananjay Kumar, Chaudhary Bhupendra	Regeneration Potential in Plants			2025	10.1201/9781032702391
16	SEDP: Secure and efficient data processing for heterogeneous IoT networks using punctured convolution coding	Naaz Zaineb, Joshi Gamini, Sharma Vidushi	Engineering Research Express	7	2	2025	10.1088/2631-8695/add85a
17	A Novel Complex Encoder Transformation MLMVN Framework for Marine Vessels Detection Using SAR Images	Dashondhi Gaurav Kumar, Sharma Shakti, Dasaundhi Girjesh, Arun P.V, Bhardwaj Arpit, Buddhiraju Krishna Mohan	Journal of the Indian Society of Remote Sensing			2025	10.1007/s12524-025-02122-1
18	A high-throughput structural dynamics approach for identification of potential agonists of FFAR4 for type 2 diabetes mellitus therapy	Jhinjharia Divya, Kaushik Aman Chandra, Sahi Shakti	Journal of Biomolecular Structure and Dynamics	43	1	2025	10.1080/07391102.2023.2280707
19	Grid interactive solar PV power generation systems using sparse control algorithms promoted by Andrew's sine norm	Kumar Ranjeet Singh Omveer, Kumar Shailendra, Prasad Tanu	International Journal of Power Electronics	21	2	2025	10.1504/IJPELEC.2025.144694
20	Ignored sufferers: a phenomenological inquiry into the lived experiences of postpartum depression among men	Malik Anu	Advances in Mental Health	23	1	2025	10.1080/18387357.2024.2345236

21	CNN Based Vowel Identification Using Four Channel EEG Datasets	Iqbal Asif, Suhag Ashok K, Bhardwaj Arpit, Choudhary Pooia,	2025 1st International Conference on AIML-Applications for Engineering and Technology, ICAET 2025			2025	10.1109/ICAET63349.2025.10932161
22	Optimal frame selection-based watermarking using a meta-heuristic algorithm for securing video content	Singh Roop, Pal Raju, Joshi Deepak,	Computers and Electrical Engineering	121		2025	10.1016/j.compeleceng.2024.109857
23	Load-balancing model using game theory in edge-based IoT network	Naaz Zaineb, Joshi Gamini, Sharma Vidushi	Pervasive and Mobile Computing	109		2025	10.1016/j.pmcj.2025.102041
24	A voting-based trustworthy distributed IoT attack detection model	Sharma Priya, Sharma Sanjay Kumar, Dani Diksha	Personal and Ubiquitous Computing	29	1	2025	10.1007/s00779-024-01836-2
25	Advancing Cancer Treatment and Diagnosis: A Review on Photodynamic Therapy Using OLED Technology	Tiwari Rajesh Kumar, Mishra Rajesh, Sharma Sanjay Kumar, Prabhu Nakshathra, Nagar Mangey Ram, Grigalevicius Saulius	Molecules	30	6	2025	10.3390/molecules30061305
26	APPLICATION OF SLUDGE FROM SEQUENCING BATCH REACTOR-SEWAGE TREATMENT PLANT: A CASE STUDY	Garg Akash, Agarwal Priya, Saini Gaurav	Sustainable Use of Wastewater in Agriculture: Applications, Methods, and Technology			2025	10.1201/9781003610694-12 [1, 2]
27	Order Reduction of Linear Dynamic System Using Recursive Pole Array Technique and Pade Approximation	Kumari Deepa, Pal Kirti, Vishwakarma C.B.	Lecture Notes in Electrical Engineering	1303		2025	10.1007/978-981-96-0047-2_27
28	Biochar supported metal oxide nanocomposites for electrochemical estimation of simazine in water samples	Maheshwari Jyoti, Palariya Diksha, Bughani Arun, Bisht Manisha, Sharma Shubham, Upreti Bharat Bhushan, Singhal Barkha, Zaidi M.G.H, Mehtab, Sameena	Chemical Papers	79	5	2025	10.1007/s11696-025-03964-2
29	Deep Convolutional Network-Based Probabilistic Selection Approach for Multiclassification of Brain Tumors Using Magnetic Resonance Imaging	Mehrotra Rajat, Ansari M. A, Agrawal Rajeev, Bin Heyat Md Belal, Tripathi Pragati, Sayeed Eram, Parveen Saba, Lira John Irish G, Ullah Hadaate	International Journal of Intelligent Systems	2025	1	2025	10.1155/int/6914757
30	Au nanoparticle-engineered Ti3C2Tx MXenes as a high-performance SERS platform for detection of organic pollutants	Rajput, Prachi ; Chatterjee, Sriparna ; Sinha, R.K. ; Devi, Pooja	Mikrochimica acta	192	4	2025	10.1007/s00604-025-07067-3

31	Analytical Study on Wireless Sensor Network Communication and Actuators Collaboration	Alward, Yahya ; Ansari, M. A. ; Singh, Omveer ; Rawea, Adel ; Aldobali, Mahmood	Journal of Sensors	2025	1	2025	10.1155/js/1982719
32	Electrocardiogram Signal Denoising Using Optimized Adaptive Hybrid Filter with Empirical Wavelet Transform	Balasubramanian, S. ; Naruka, Mahaveer Singh ; Tewari, Gaurav	Journal of Shanghai Jiaotong University (Science)	30	1	2025	10.1007/s12204-023-2591-1
33	Determinants of soil health and its role in environmental sustainability	Kumar, Maneesh ; Kumari, Priyanka ; Kumari, Arti	Soil Health and Nutrition Management			2025	10.1079/9781800624597.0014
34	Electron Mobility Models and Subthreshold Swing for Modern Semiconductors	Rahi, Shiromani Balmukund ; Song, Young Suh	Circuit Design for Modern Applications			2025	10.1201/9781003483052-15
35	Predictive analytics for urban development using ML technique	Swain, Swapna Sarita ; Raghavendra Rao, R.V. ; Mohan Reddy, Ch. Ram ; Kaur, Harkirat ; Meenakshi ; Boopathi, Sampath	Urban Mobility and Challenges of Intelligent Transportation Systems			2025	10.4018/979-8-3693-7984-4.ch021
36	Genomic profiling and molecular dynamics analysis of parDEPa toxin-antitoxin homologs targeting DNA gyrase in Pseudomonas aeruginosa: insights from computational investigations	Gupta, Nomita ; Yadav, Mohit ; Ali, Waseem ; Singh, Garima ; Chaudhary, Shobhi ; Grover, Sonam ; Chandra, Subhash ; Rathore, Jitendra Singh	Journal of Biomolecular Structure and Dynamics			2025	10.1080/07391102.2024.2446675
37	Heavy Metals (HMs) Uptake by Plants Through Bioremediation to Restore Damaged Ecosystem and Environment: A Sustainable Approach	Gautam, Ankita ; Banerjee, Bhaswati ; Singh, Ajeet ; Bithel, Navneet	Smart Technologies in Sustainable Agriculture: Current and Future Prospects			2025	10.1201/9781003493402-10
38	Multivalent Optimizer-Based Hybrid Genetic Algorithm for Task Scheduling in Cloud Applications	Malik, Meena ; Gupta, Bhavna ; Prabha, Chander ; Tiwari, Dimple ; Tülbentçi, Tuğşad ; Akdağ, Şahin ; Al-Turjman, Fadi ; Bhati, Nitesh Singh	Journal of Computer Science	21	2	2025	10.3844/jcssp.2025.223.234
39	Effect of Co on mechanical and electrochemical properties of powder synthesized cellular Ti-Al alloy	Shakya, Jagdish Prasad ; Singh, Chandra Pal ; Tomar, Shilpi ; Shrivastava, Vikas ; Singh, Pradeep	Advances in Materials and Processing Technologies	11	1	2025	10.1080/2374068X.2023.2293346
40	Scaling and Challenge of Si-Based CMOS: Past, Present, and Future	Rahi, Shiromani Balmukund ; Song, Young Suh	FeFET Devices, Trends, Technology and Applications			2025	10.1002/9781394287307_1
41	Recycling biosolids into agriculture: Prospects and challenges	Sharma, Eti ; Gaur, Nisha ; Pandey, Aaradhya ; Sharma, Yashika	Agricultural Nutrient Pollution and Climate Change: Challenges and Opportunities			2025	10.1007/978-3-031-80912-5_9

42	Design of novel BRC1A target inhibitors: Docking simulation, QSAR modeling, MD simulation and Pharmacokinetics profiling	Abdullahi, Sagiru Hamza ; Goyal, Nainee ; Chandra, Anshuman ; Ibrahim, Zakari Ya'u ; Ugbe, Fabian Audu ; Chinade, Saudatu Ja'afaru	Scientific African	27		2025	10.1016/j.sciaf.2024.e02522
43	Helicobacter pylori CagA and CagT antibodies arrest the translocation of CagA into gastric epithelial cells	Sain, Swagata ; Solanki, Bhawna ; Kumar, Navin	3 Biotech	15	6	2025	10.1007/s13205-025-04343-0
44	HEALTH PSYCHOLOGY IN INTEGRATIVE HEALTH CARE	Katevarapu, Sundeep ; Pratap Singh, Anand ; Tiwari, Priyanka ; Varshney, Akriti ; Lanka, Priya ; Pradhan, Aankur ; Panwar, Neeraj ; Sapru Wangnue, Kumud	Health Psychology in Integrative Health Care			2025	10.4324/9781003596806
45	Ferroelectric Tunnel FET: Next Generation of Classical Low Power CMOS Technology	Guenifi, Naima ; Rahi, Shiromani Balmukund ; Chabane, Houda ; Dibi, Khadidja	FeFET Devices, Trends, Technology and Applications			2025	10.1002/9781394287307_6
46	Hydromagnetic effects on couple stress fluid flow through a porous sphere embedded in another porous medium	Patel, Pawan Kumar ; Deo, Satya ; Maurya, Pankaj Kumar	Physics of Fluids	37	4	2025	10.1063/5.0259290
47	Validation and diagnostic study of cloudburst events over the Himalayan region using IMDAA and ERA5	Lohan, Nitin ; Routray, Ashish ; Kumar, Rohan ; Mahala, Biranchi Kumar ; Kumar, Sushil	Geomatics, Natural Hazards and Risk	16	1	2025	10.1080/19475705.2024.2446589
48	Double transition metal carbide Mo2TiC2Tx MXene architectured with in-situ synthesized gold nanoparticles for SERS enhancement	Rajput, Prachi ; Sinha, R.K. ; Devi, Pooja	Inorganic Chemistry Communications	174		2025	10.1016/j.inoche.2025.114047
49	Decoding antibiotic resistance in Pseudomonas aeruginosa: Embracing innovative therapies beyond conventional antibiotics	Gupta, Nomita ; Chauhan, Kanchan ; Singh, Garima ; Chaudhary, Shobhi ; Rathore, Jitendra Singh	Microbe (Netherlands)	6		2025	10.1016/j.microb.2025.100233
50	Adsorption of cationic basic fuchsin dye from aqueous solution using green synthesized zinc oxide coated on reduced graphene oxide nanocomposite (ZnO-rGO NC)	Gbawoquiya, Flomo L. ; Rachna, Km. ; Singh, Pramod K. ; Noor, I.M. ; Yahya, M.Z.A. ; Shankar, Shiv ; Iqbal, Muzaffar	Ionics	31	1	2025	10.1007/s11581-024-05936-0
51	Enzyme- Assisted Wastewater Treatment in the Pharmaceutical Industry	Gaur, Nisha ; Sheikh, Ayan ; Yadav, Mohit ; Shrivastava, Vaishnavi ; Singh, Rashika ; Nghiem, Xuan-Hoa	Biotechnology Approaches to Industrial and Pharmaceutical Wastewater Treatment			2025	10.4018/979-8-3693-8487-9.ch013

52	A Composite Hybrid β-GA Controller and Expo-Pole Clustering for the Model-Order Reduction of the Discrete SISO/MIMO System	Kumari, Deepa ; Pal, Kirti ; Vishwakarma, C.B.	IETE Journal of Research			2025	10.1080/03772063.2025.2463621
53	Evaluating the traditional wisdom of medicinal plants in Suhelwa Wildlife Sanctuary, India	Ojha, Anju Kumari ; Bala, Chandra	Journal of Herbs, Spices and Medicinal Plants			2025	10.1080/10496475.2025.2500534
54	EVCS demand management using multi-objective power flow analysis with renewable distributed generators	Gandotra, Rupika ; Pal, Kirti	Engineering Research Express	7	1	2025	10.1088/2631-8695/adb1a3
55	RNA interference to enhance the yield of the oilseed crops	Tyagi, Aditya ; Shanmugam, V. ; Kapoor, Riti Thapar ; Tyagi, Swati ; Banerjee, Bhaswati ; Rai, Ashutosh	Oil Seed Crops			2025	10.1002/9781394186426.ch14
56	Enhanced Mobility in MoS2 Thin Film Transistors Through Kr Ion Beam-Generated Surface Defects	Gupta, Deepika ; Upadhyay, Sonica ; Rana, Abhimanyu Singh ; Kumar, Satyendra ; Deepika ; Bharti, Aniket ; Malik, Vivek Kumar ; Sharma, Sanjay Kumar ; Khanna, Manoj Kumar ; Kumar, Rajesh	Journal of Electronic Materials	54	1	2025	10.1007/s11664-024-11533-8
57	Salinicoccus bachuensis sp. nov., a novel halophilic bacterium, isolated from rhizosphere soil surrounding Tamarix chinensis Lour. plants in Bachu County, Xinjiang, China	Liang, Zhen-Pu ; Wang, Rui ; Cao, Han-Wen ; Zhou, Xin-Lu ; Dai, Jin-Ping ; Su, Ping ; Singh, Deepali ; Zhang, Xiao-Xia	Archives of Microbiology	207	5	2025	10.1007/s00203-025-04315-1
58	Development of bio-based polymeric blends–a comprehensive review	Maitra, Jaya ; Bhardwaj, Nikita	Journal of Biomaterials Science, Polymer Edition	36	1	2025	10.1080/09205063.2024.2394300
59	RNAi: A Potent Biotechnological Tool for Improvement of Ornamental Crops	Kumar, Mukesh ; Chaudhary, Veena ; Yadav, Manoj Kumar ; Chauhan, Chetan ; Kumar, Ravi ; Singh, Deepali ; Teotia, Sachin	Plant Molecular Biology Reporter	43	1	2025	10.1007/s11105-024-01475-0
60	Severe Storms in Changing Climate Scenario with a Distinctive Emphasis on South Asia and India	Panda, Jagabandhu ; Paul, Debashis ; Sarkar, Ankan ; Mukherjee, Asmita ; Bhasi, Ipshita ; Tom, Geo ; Das, Sushant ; Lohan, Nitin ; Roy, Debjyoti ; Kumar, Sushil	Severe Storms: Anatomy, Early Warning Systems and Aftermath in Changing Climate Scenarios			2025	10.1007/978-981-97-7075-5_22

61	Characterization of Yamuna River water quality and its remediation by Phytoremediation technique	Sharma, Bhanupriya ; Ram, Shobha ; Vyas, Sameer	South African Journal of Chemical Engineering	53		2025	10.1016/j.sajce.2025.04.006
62	ANN Based Control Strategy for Automatic Generation Control of an Interconnected Power Systems	Singh, Omveer ; Chaudhary, Shreya	Lecture Notes in Electrical Engineering	1303		2025	10.1007/978-981-96-0047-2_20
63	Probabilistic assessment of n clients network system covering four subsystems and non-identical load balancers	Singh, V.V. ; Paliwal, Jyoti ; Yadav, Meenakshi	Life Cycle Reliability and Safety Engineering			2025	10.1007/s41872-024-00292-4
64	Construction and Validation of Conduct Disorder Scale: A Clinician and Self-Report Measure	Kotnala, Varnica ; Singh, Anand P.	Health Psychology in Integrative Health Care			2025	10.4324/9781003596806-38
65	Triple-band perovskite based chiral metasurface biosensor with multi-functionalities	Sharma, Vishakha ; Kalra, Yogita ; Sinha, Ravindra Kumar	Journal of Computational Electronics	24	3	2025	10.1007/s10825-025-02332-3
66	Circuit Design for Modern Applications	Roobert, A. Andrew ; Venkatesh, M. ; Rahi, Shiromani Balmukund ; Priya, G. Lakshmi ; Tensingh, Samuel	Circuit Design for Modern Applications			2025	10.1201/9781003483052
67	Bio-based food packaging a sustainable alternative: availability, viability and legislation	Sharma, Shubhanshi ; Sharma, Shubham ; Vats, Tanvi	Polymer Bulletin	82	4	2025	10.1007/s00289-024-05554-w
68	BERTopic: a model to solve cold start problem in software bug recommendation system	Kumar, Vinod ; Baghel, Anurag Singh	International Journal of Information Technology (Singapore)			2025	10.1007/s41870-025-02470-8
69	Squirrel Search Optimization Algorithm for Order Abatement of SISO Linear Time Invariant Systems	Singh, Babita ; Singh, Nidhi ; Singh, Dipti	Circuits, Systems, and Signal Processing			2025	10.1007/s00034-025-03082-0
70	Investigating the physico-mechanical and thermal properties of flexible polyurethane foams made with standard and special polyols produced by the variable pressure foaming technique	Singh, Vratika ; Gopalasamudram, Mahesh N ; Maitra, Jaya	Journal of Cellular Plastics	61	2	2025	10.1177/0021955X251314036
71	Exploring the Dynamics of Asparagus racemosus Phytochemicals as Dual Target Inhibitors of Monkeypox Virus	Mishra, Saurav Kumar ; Chandra, Anshuman ; Mitra, Namrata ; Krishna, Nikita ; Singh, Nagendra ; Akash, Shopnil ; Jardan, Yousef A. Bin ; Bourhia, Mohammed Georrge, John J.	Current Medicinal Chemistry			2025	10.2174 /0109298673361923250101072831

72	Empowering IoT connectivity with LoRa technology: a deep dive into long-range communication	Kashyap, Monika ; Verma, Gourav ; Sharma, Vidushi	Engineering Research Express	7	1	2025	10.1088/2631-8695/adbfdd
73	Identification of Negative Capacitance in Ferroelectric in FET Devices	Bind, Umesh Chandra ; Rahi, Shiromani Balmukund ; Kumar, Keshav	FeFET Devices, Trends, Technology and Applications			2025	10.1002/9781394287307_7
74	Insilico mining of metagenomic datasets for novel PET hydrolase homologs: Enhancing enzyme discovery for circular bioeconomy	Kumar, Shubham ; Bhardwaj, Riya ; Shivangi, Km ; Mehtab, Sameena ; Singhal, Barkha	Sustainable Chemistry for the Environment	10		2025	10.1016/j.scenv.2025.100253
75	One-Step Solvothermally Synthesized Ni Doped MoS2@SnS2 Nanocomposite as a High Performance Supercapacitor Electrode Material	Kumar, Ravindra ; Kumar Keshari, Ashish ; Sinha Roy, Susanta ; Patel, Geetika ; Raju, Vemoori ; Sain, Sourav ; Maity, Gurupada	ChemNanoMat	11	4	2025	10.1002/cnma.202400584
76	A ferroelectric negative-capacitance TFET with extended back gate for improvement in DC and analog/HF parameters	Pathakamuri, Anil Kumar ; Pandey, Chandan Kumar ; Das, Diganta ; Nanda, Umakanta ; Rahi, Shiromani Balmukund	Field Effect Transistors			2025	10.1002/9781394248506.ch13
77	Keystroke dynamics and quantum machine learning	Bhasin, Namisha ; Sharma, Sanjay Kumar ; Mishra, Rajesh	International Journal of Biometrics	17	1-Feb	2025	10.1504/IJBM.2025.143727
78	Extraction optimization of bioactive compounds from Vitex negundo through RSM: GC–MS, FTIR, in silico analysis, and antibacterial activity	Sharma, Eti ; Gaur, Nisha ; Singh, Sandeep ; Mathur, Kartavya ; Kumar, Krishan ; Wahi, Nitin ; Garg, Gunjan	Journal of Plant Biochemistry and Biotechnology			2025	10.1007/s13562-025-00979-4
79	An Employment of PID Controller-Based Genetic Algorithm for the Load Frequency Control of Two-Area Power System Network	Rana, Arun Singh ; Singh, Omveer ; Vishwakarma, C. B.	Lecture Notes in Electrical Engineering	1303		2025	10.1007/978-981-96-0047-2_26
80	Negative-capacitance field-effect transistor for optimization of power factor for modern applications	Rahi, Shiromani Balmukund ; Upadhyay, Abhishek Kumar ; Lal, Hanumant ; Karumuri, Srinivasa Rao	Field Effect Transistors			2025	10.1002/9781394248506.ch24
81	Ferroelectric Application in Recent Nanoscale Device with ITRS Roadmap	Rahi, Shiromani Balmukund ; Song, Young Suh	FeFET Devices, Trends, Technology and Applications			2025	10.1002/9781394287307_11
82	Structural, magnetic, dielectric properties of double perovskite-La2NiFeO6 synthesized by wet chemical route	Punj, Shivani ; Mondal, Rajib ; Chatterjee, Souvik ; Dhruv, Davit B. ; Kumar, Ashok ; Kumar, Alesh ; Singh, Jashandeep	Applied Physics A: Materials Science and Processing	131	2	2025	10.1007/s00339-024-08212-0

83	A Novel and Robust Method for Investigating Fungal Biofilm	Biswas, Biswambhar ; Asif, Shumaiza ; Puria, Rekha ; Thakur, Anil	Bio-protocol	15	1	2025	10.21769/BioProtoc.5146
84	Targeting Mycobacterium tuberculosis: identification of potential phytochemicals from traditional plants against glucosyl-3-phosphoglycerate phosphatase (GpgP)	Singh, Pratyaksha ; Bhati, Saurabh Kumar ; Jain, Monika ; Singh, Rashmi Prabha ; Muthukumaran, Jayaraman ; Singh, Amit Kumar	Journal of Biomolecular Structure and Dynamics			2025	10.1080/07391102.2025.2509789
85	A Novel Parallel Hybrid k-Means and HGSO Based Approach for Detecting Fake Reviews in Social Media	Purohit, Rajendra ; Chowdhary, K.R. ; Purohit, S.D. ; Pal, Raju ; Sharma, Harish	SN Computer Science	6	5	2025	10.1007/s42979-025-03990-7
86	M2SM: multi modal signature matching network utilizing spatio-temporal features extracted from online signature	Pandey, Anurag ; Singh, Pushap Deep ; Vinayak, Arnav Bhavsar ; Nigam, Aditya ; Acharya, Divya ; Singh, Prabhishek ; Bhardwaj, Arpit ; Diwakar, Manoj	International Journal on Document Analysis and Recognition			2025	10.1007/s10032-025-00521-1
87	Fungal pretreatment methods for organic wastes: advances and challenges in biomass valorization	Chaurasia, Pankaj Kumar ; Bharati, Shashi Lata ; Singh, Sunita ; Sivalingam, Azhagu Madhavan ; Shankar, Shiv ; Mani, Ashutosh	RSC Sustainability	3	3	2025	10.1039/d4su00582a
88	Temperature-dependent coupling characteristics in a silicon photonic crystal waveguide coupler	Sherawat, Varnam ; Kalra, Yogita ; Bokolia, Renuka ; Sinha, Ravindra Kumar	Optics Communications	586		2025	10.1016/j.optcom.2025.131875
89	An Alternative to Integrating Factor Approach For Solving Linear Second-order ODEs	Singh, Dharm Prakash ; Ujlayan, Amit	Resonance	30	5	2025	10.1007/s12045-025-1798-x
90	Bee Swarm Intelligence Inspired Sustainable Swarm Air Purification Agent System with K-means Clustering	Sahai, Priya ; Kumar, Rakesh ; Mehrotra, Monica	SN Computer Science	6	5	2025	10.1007/s42979-025-04033-x
91	Role of Nanofertilizers in Sustainable Growth of Crop Plants and Production	Pandey, Aaradhya ; Tiwari, Pragya ; Sharma, Eti	Nanotechnology-based Sustainable Agriculture			2025	10.1002/9783527849949.ch03
92	SAFED: secure and adaptive framework for edge-based data aggregation in IoT applications	Naaz, Zaineb ; Joshi, Gamini ; Sharma, Vidushi	Discover Internet of Things	5	1	2025	10.1007/s43926-025-00143-3
93	Enhancing wicking properties of flexible polyurethane foam with bamboo and gelatin fillers for improved comfort and hygiene	Jaiswal, Harshi ; Gopalasamudram, Mahesh N ; Maitra, Jaya	Journal of Cellular Plastics			2025	10.1177/0021955X251329393

94	Influence of Swift Heavy Ion Beam Irradiation on Optical, Structural, and Surface Morphological Properties of WO3 Thin Films Grown by RF Sputtering Method	Deepika ; Gupta, Deepika ; Chauhan, Vishnu ; Kumar, Satyendra ; Singh, Paramjit ; Sharma, S.K. ; Kumar, Shalendra ; Kumar, Rajesh	Journal of Electronic Materials	54	1	2025	10.1007/s11664-024-11565-0
95	Design of wide bandwidth metamaterial for biosensor and wireless application	Ankit ; Kishor, Kamal ; Sinha, Ravindra Kumar	Physica Scripta	100	3	2025	10.1088/1402-4896/adadad
96	Computational Assessment of Structural and Conformational Dynamics of Missense Mutations on Protein Structure for Veterinary Applications	Gupta, Himanshi ; Pandey, Neetesh ; Yadav, Arvind Kumar	Bioinformatics in Veterinary Science: Vetinformatics			2025	10.1007/978-981-97-7395-4_18
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