



INSTITUTE OF AERONAUTICAL ENGINEERING

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ANNEXURE-38

Journal Articles

S.No	Authors	Title	Year	Source Title	DOI	Source
1	Bindu G.H.; Ganesh M.; Kumar S.S.; Pati P.R.; Giri J.; Sathish T.; Makki E.	Performance of jack fruit methyl ester and pine oil blends with coconut shell nanoadditive biodiesel for automobile applications	2024	Interactions	10.1007/s10751-024-02004-x	Scopus
2	Sharma S.; Anitha D.; Chaturvedi V.; Vimal J.; Jayaswal P.; Saxena K.K.; Aherwar A.; Pathak V.K.; Abdullaev S.S.	MIG welding process parameter optimisation of AISI 1026 steel using Taguchi-TOPSIS method	2024	International Journal on Interactive Design and Manufacturing	10.1007/s12008-023-01528-w	Scopus
3	Gaur R.; Prakash S.; Prasad L.V.N.; Kumar S.; Abhishek K.; Guduri M.	A Secure and Efficient Scheme Based on Unlinkability and Anonymous Traceable Protocol for Cloud-Assisted IoT Environment	2023	Journal of Circuits, Systems and Computers	10.1142/S0218126623503164	Scopus
4	Naresh M.; Nagaraju V.S.; Kollem S.; Kumar J.; Peddakrishna S.	Non-invasive glucose prediction and classification using NIR technology with machine learning	2024	Heliyon	10.1016/j.heliyon.2024.e28720	Scopus
5	Satyanarayana M.V.N.V.; Vijayakrishna B.; Srinivasnaik M.; Kolagotla R.K.; Janaki D.V.; Prakash P.	Influence of overlapping friction stir processing on microstructural evolution, texture development, and mechanical performance in Al6061	2024	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	10.1177/14644207241235385	Scopus
6	Buddiga L.R.; Gajula G.R.; Nethala G.P.	Investigation on the Antifungal Activity of Zr/P-TiO ₂ Nanoparticles Against the Aspergillus niger-MTCC 282 Pathogen	2025	Journal of Inorganic and Organometallic Polymers and Materials	10.1007/s10904-025-03742-3	Scopus
7	N R.; R P.; V V.; Ch B.; V L.; B.D J.; N S S V R.R.	Visible upconverted and NIR luminescence properties of Er ³⁺ and Er ³⁺ /Yb ³⁺ -doped Lu ₃ Sc ₂ Ga ₃ O ₁₂ nanocrystals	2023	Journal of Luminescence	10.1016/j.jlumin.2023.120130	Scopus

8	Kumar J.; Nirala N.S.; Singh N.K.; Gupta N.; Dwivedi Y.D.; Verma R.; Rai S.K.; Gupta M.	Design, development and fluidic behavior analysis of triply periodic minimal surface (TPMS) based scaffolds for bone-applications	2024	International Journal on Interactive Design and Manufacturing	10.1007/s12008-023-01441-2	Scopus
9	Narasimha Raju A.S.; Hussain S.J.; Rajababu M.; Gatla R.K.; Venkatesh K.; Guntreddi V.	CADxPolydetect: a clinically explainable hybrid deep learning system for multi-class colorectal lesion detection using augmented colonoscopy images	2025	BMC Medical Informatics and Decision Making	10.1186/s12911-025-03176-4	Scopus
10	Sadineni K.; Reddy Basireddy S.; Rao Allaka T.; Yatam S.; Bhoomandla S.; Muvvala V.; Babu Haridasyam S.	Design, Synthesis and In vitro Antitubercular Effect of New Chalcone Derivatives Coupled with 1,2,3-Triazoles: A Computational Docking Techniques	2024	Chemistry and Biodiversity	10.1002/cbdv.202400389	Scopus
11	Patnaik R.K.; Dwivedi Y.D.; Srivastava B.K.; Arulmozhi A.; Prasad D.V.S.S.S.V.; Dillibabu S.P.; Gopala Gupta A.S.A.L.G.; Rajaram A.	METAL-SUPPORTED SOLID OXIDE FUEL CELLS: SYNTHESIS AND ELECTROCHEMICAL PROPERTIES ANALYSIS USING OPTIMIZATION METHOD	2024	Surface Review and Letters	10.1142/S0218625X25500325	Scopus
12	Fuse K.; Vora J.; Wakchaure K.; Patel V.K.; Chaudhari R.; Saxena K.K.; Bandhu D.; Ramacharyulu D.A.	Abrasive waterjet machining of titanium alloy using an integrated approach of taguchi-based passing vehicle search algorithm	2025	International Journal on Interactive Design and Manufacturing	10.1007/s12008-024-01831-0	Scopus
13	Usha P.; Ramesh S.; Jayamurugan P.; Mariappan R.	Temperature Dependence and Potential of Nebulizer Spray Pyrolysis on Zinc Stannate (ZnSnO ₃) Thin Films for Ammonia Gas Sensors	2024	Sensing and Imaging	10.1007/s11220-024-00468-3	Scopus
14	Sreevani M.; Vijay V.; Chaitanya K.; Radhika C.; Manjula N.; Radha Krishna Koushik D.; Sai Venumadhav B.; Sai Jaideep T.; Pittala C.S.; Shaik S.	State-of-art design: data selectors using quantum-dot cellular automata	2024	International Journal of System Assurance Engineering and Management	10.1007/s13198-023-02215-5	Scopus
15	Dikshit M.K.; Suresh C.; Vara H.; Pathak V.K.; Saxena K.K.; Revathi V.; Abduvalieva D.	Sensitivity analysis of cutting parameters considering cutting forces and surface roughness in High Speed Ball End milling process	2025	International Journal on Interactive Design and Manufacturing	10.1007/s12008-024-01899-8	Scopus

16	Ashok K.; Usha P.; Nagaraju R.; Ramesh T.; Kumar N.P.; Sulaiman G.M.	Multifunctional Characterization and Anticancer Properties of Magnetic Zinc Ferrite Nanoparticles by Modified Ultrasonic Assisted Co-precipitation Method	2024	ECS Journal of Solid State Science and Technology	10.1149/2162-8777/ad71f2	Scopus
17	Ravi C.B.; Madhusudhan R.M.; Sudharshan R.B.; Saikumar R.; Sarath C.K.B.	Seismic Microzonation of Amaravati region: Exploring Geotechnical Data for Site Response Analysis	2024	Journal of Engineering Science and Technology Review	10.25103/jestr.173.10	Scopus
18	Raju A.S.N.; Venkatesh K.; Gatla R.K.; Hussain S.J.; Polamuri S.R.	Medivision: Empowering Colorectal Cancer Diagnosis and Tumor Localization Through Supervised Learning Classifications and Grad-CAM Visualization of Medical Colonoscopy Images	2025	Cognitive Computation	10.1007/s12559-025-10433-1	Scopus
19	Suneel S.; Krishnamoorthy R.; Gopatoti A.; Maguluri L.P.; Kuncha P.; Sunil G.	Enhanced image diagnosing approach in medicine using quantum adaptive machine learning techniques	2024	Optical and Quantum Electronics	10.1007/s11082-023-06203-8	Scopus
20	Ramakrishna J.S.; Venkateswarlu S.C.; Kumar K.N.; Shreya P.	Development of explainable machine intelligence models for heart sound abnormality detection	2024	Indonesian Journal of Electrical Engineering and Computer Science	10.11591/ijeecs.v36.i2.pp846-853	Scopus
21	Godavarthi B.; Dhar M.; Devi S.A.; Raju S.S.; Balaram A.; Srilakshmi G.	Blockchain integration with the internet of things for the employee performance management	2023	Journal of High Technology Management Research	10.1016/j.hitech.2023.100468	Scopus
22	Rajeshkumar S.; Malarkodi C.; Roy A.; Munusamy T.; Kumar A.; Setyawan H.Y.; Sharma K.; Verma R.	Bacterial assisted preparation of cadmium sulfide/polyvinyl alcohol nanocomposites and its biological applications	2025	Environmental Nanotechnology, Monitoring and Management	10.1016/j.enmm.2024.101030	Scopus

23	Gupta R.; Agrawal S.; Srinivas R.; Yadav A.S.; Kumar R.; Abdullaev S.S.	Investigation of experimental and numerical analysis of thermal load of WEDM on all metals through process parameters on wire electrode temperature	2024	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	10.1177/09544089241235710	Scopus
24	Ferdous A.H.M.I.; Reddy M.M.; Anwer T.M.K.; Anower M.S.; Jain P.; Musha A.; Islam M.A.; Ahammad S.H.; Hossain M.A.; Rashed A.N.Z.; Ibrahim H.	Optical communications with guided wave fibers with rectangular cladding for fuel adulteration detection	2024	Journal of Optical Communications	10.1515/joc-2023-0058	Scopus
25	Chalapathi U.; Prasad P.R.; Reddy C.P.; Sambasivam S.; Rosaiah P.; Ouladsmame M.; Alhammadi S.; Lee S.M.; Park S.H.	Synthesis of wittichenite Cu ₃ BiS ₃ thin films by sulfurizing thermally evaporated Cu-Bi metallic stacks	2023	Chalcogenide Letters	10.15251/CL.2023.2011.797	Scopus
26	Kumar R.; Saha S.; Tyagi R.; Bishvakarma H.; Saxena K.K.; Balguri P.K.	Effects of electroless nickel -coating on tribological and corrosion behaviour of TMT steel rebar with multi-walled carbon-nanotube and titanium dioxide nanoparticles	2024	Results in Surfaces and Interfaces	10.1016/j.rsufi.2024.100220	Scopus
27	Lakshmi M.S.; Ramana K.S.; Ramu G.; Shyam Sunder Reddy K.; Sasikala C.; Ramesh G.	Computational intelligence techniques for energy efficient routing protocols in wireless sensor networks: A critique	2024	Transactions on Emerging Telecommunications Technologies	10.1002/ett.4888	Scopus
28	Laxminarayanamma K.; Krishnaiah R.V.; Sammulal P.	IDRCNN: A Novel Deep Learning Network Model for Pancreatic Ductal Adenocarcinoma Detection on Computed Tomography	2024	International Journal of Electrical and Computer Engineering Systems	10.32985/ijeces.15.1.1	Scopus
29	Jaiswal S.; Gupta P.; Prasad L.V.N.; Kulkarni R.	An Empirical Model for the Classification of Diabetes and Diabetes_Types Using Ensemble Approaches	2023	Journal of Artificial Intelligence and Technology	10.37965/jait.2023.0220	Scopus

30	Alemu T.N.; Malagavelli V.; Cici Jennifer Raj J.; Nadh S.; Aragaw M.M.	Investigating the Impact of Temperature Variations on the Load-Carrying Capacity of Plain Concrete Beams	2025	International Research Journal of Multidisciplinary Scope	10.47857/irjms.2024.v06i02.03780	Scopus
31	Sunil B.D.Y.; Goyal A.; Kumar L.; Sonia P.; Saxena K.K.; Bandhu D.; Kaur K.; Chandrashekar R.; Ansari M.A.	Optimizing wire electrical discharge machining performance of Inconel 625 with genetic algorithms & particle swarm optimization	2024	Journal of Materials Research and Technology	10.1016/j.jmrt.2024.06.079	Scopus
32	Azhagurajan A.; Marichelvam M.K.; Prakash L.; Giri B.T.; Saxena K.K.; Balguri P.K.; Rakesh C.; Abdullaev S.	Design and development of SFRC and GFRP reinforced block to analyze explosion resistance strength for fireworks industries	2025	International Journal on Interactive Design and Manufacturing	10.1007/s12008-024-02056-x	Scopus
33	Buddiga L.R.; Gajula G.R.; Jaishree G.	Methyl Orange Dye degradation of dual doped TiO ₂ nanoparticles under visible light Irradiation	2025	Journal of the Indian Chemical Society	10.1016/j.jics.2025.101938	Scopus
34	Malkapuram D.; Ballari S.O.; Chinta S.; Rajasekaran P.; Venkatesan B.; Vellingiri S.; Paulraj P.; Ramaswamy A.; Ramamurthy D.; Salam F.A.; Varma U.D.S.P.	Mechanical, water absorption, efflorescence, soundness anmorphological analysis of hybrid brick composites	2024	Revista Materia	10.1590/1517-7076-RMAT-2024-0179	Scopus
35	Pawar C.A.; Luo D.X.; Rokkala D.; Bura R.; Bhagyalaxmi G.; Rani R.S.; Mannam K.V.; Babu K.S.	Thermoresponsive [(PLA)-co-(Car)] based frustum-shaped capsules with extended porosity for biosensing and biomedical applications	2025	Journal of Porous Materials	10.1007/s10934-024-01681-x	Scopus
36	Kishore Kumar Reddy P.; Mohan Babu C.G.; Padma Priya K.T.; Venkata Rami Reddy Y.; Vishnu Vardhan Reddy L.; Madhusudhan Reddy M.; Reddy S.A.T.; Sheik G.; Kumar K.R.	Future climate projections and sustainable development: The impact of Urban Heat Islands and land use land cover in Telangana's GHMC area	2025	Indian Journal of Engineering	10.54905/diss.22i57.e4ije1690	Scopus
37	Dawn S.; Das S.S.; Ramesh M.; Seshadri G.; Inkollu S.R.; Pandraju T.K.S.; Cali U.; Ustun T.S.	Risk alleviation and social welfare maximization by the placement of fuel cell and UPFC in a renewable integrated system	2024	Frontiers in Energy Research	10.3389/fenrg.2024.1428458	Scopus

38	Mallikarjuna B.; Noonia A.; Berar G.; Rani L.; Tripathi K.N.; Sebastian S.	Comparing the roles of cryptography and blockchain technology in relation to Internet of Things	2024	Journal of Discrete Mathematical Sciences and Cryptography	10.47974/JDMSC-2076	Scopus
39	Balaji K.; Kumar S.S.; Vivek D.; Deepak S.P.K.; Sagar K.V.D.; Khan S.T.	An Effective Deep Learning-Based Intrusion Detection System for the Healthcare Environment	2025	International Journal of Computational Intelligence and Applications	10.1142/S1469026824500330	Scopus
40	Botlagunta M.; Botlagunta M.D.; Myneni M.B.; Lakshmi D.; Nayyar A.; Gullapalli J.S.; Shah M.A.	Classification and diagnostic prediction of breast cancer metastasis on clinical data using machine learning algorithms	2023	Scientific Reports	10.1038/s41598-023-27548-w	Scopus
41	Kumar S.S.; Shyamala P.; Pati P.R.; Giri J.; Makki E.; Sathish T.	Mechanical (static and dynamic) characterization and thermal stability of hybrid green composites for engineering applications	2024	Journal of Materials Research and Technology	10.1016/j.jmrt.2024.05.132	Scopus
42	Sucharitha G.; Sirisha M.; Pravalika K.; Gayathri K.N.	A Study on the Performance of Deep Learning Models for Leaf Disease Detection	2024	EAI Endorsed Transactions on Internet of Things	10.4108/eetiot.4592	Scopus
43	Dwivedi A.; Shukla S.K.; Bharti P.K.; Gupta N.; Saxena K.K.; Dwivedi Y.D.	Comparative study of polyanthranilic acid and sulphonated polyaniline on the mild steel corrosion in aqueous hydrochloric acid	2024	Canadian Metallurgical Quarterly	10.1080/00084433.2023.2242664	Scopus
44	Prasad K.H.; Vinoth S.; Valanarasu S.; Prakash B.; Ahmad Z.; Alshahrani T.; Shkir M.	Exploring the ammonia gas sensing properties of Gd doped CeO ₂ thin films deposited by spray pyrolysis method	2024	Journal of Alloys and Compounds	10.1016/j.jallcom.2024.175415	Scopus
45	Srinag T.; Kumar R.S.; Srinivas C.H.L.; Singh B.; Prasanthi P.P.; Madhav V.V.V.; Bandhu D.; Saxena A.; Abdullaev S.S.	Flexural and impact response of bamboo and pineapple leaf fiber reinforced composites using experimental and numerical techniques	2024	International Journal on Interactive Design and Manufacturing	10.1007/s12008-023-01564-6	Scopus

46	Shilpa B.; Srilatha P.; Khan U.; Kumar R N.; Ben Ahmed S.; Kumar R.	Numerical study of thermal and solutal advancements in ZnO-SAE50 nanolubricant flow past a convergent/divergent channel with the effects of thermophoretic particle deposition	2023	Nanoscale Advances	10.1039/d3na00816a	Scopus
47	Goutham V.; Reddy Madhusudhan M.; Padma Priya K.T.; Kumar Sai R.; Shaik G.; Reddy S.A.T.	Flood Susceptibility Mapping of Kolkata Municipal Corporation: Using Multi-Criteria Decision-Making Model of GIS and AHP Techniques	2025	Journal of Engineering Science and Technology Review	10.25103/jestr.186.04	Scopus
48	Padmaja B.; Moorthy C.V.K.N.S.N.; Venkateswarulu N.; Bala M.M.	Exploration of issues, challenges and latest developments in autonomous cars	2023	Journal of Big Data	10.1186/s40537-023-00701-y	Scopus
49	Suryanarayana V.; Prabhu Shankar B.; Burri R.D.; Priyanka T.; Saidala R.K.; Sasi Kumar A.; Chauhan P.; Patni J.C.	Effects of objects and image quality on melanoma classification using Spatio Temporal Joint graph Convolutional Network	2025	Biomedical Signal Processing and Control	10.1016/j.bspc.2024.107193	Scopus
50	Babu P.A.; Rai A.K.; Ramesh J.V.N.; Nithyasri A.; Sangeetha S.; Kshirsagar P.R.; Rajendran A.; Rajaram A.; Dilipkumar S.	An Explainable Deep Learning Approach for Oral Cancer Detection	2024	Journal of Electrical Engineering and Technology	10.1007/s42835-023-01654-1	Scopus
51	Prasanna B.L.; Boda R.; Prasad R.M.	Skin Cancer Detection Using a CNN Model DermaNet with a Comparative Analysis of Activation Functions, Optimizers and Data Balancing Techniques	2025	SSRG International Journal of Electronics and Communication Engineering	10.14445/23488549/IJECE-V12I6P110	Scopus
52	Sivaji U.; Padmini S.P.; Chatrapathy K.; Kumar K.A.; Chanthirasekaran K.; Chandraprakash V.; Sucharitha Y.	Breast Cancer Classification through Meta-Learning Ensemble Model based on Deep Neural Networks	2024	Journal of Information Technology Management	10.22059/jitm.2024.96375	Scopus
53	Sharma G.; Hanumagowda B.N.; Srilatha P.; Varma S.V.K.; Khan U.; Hassan A.M.; Gamaoun F.; Kumar R.	Flow and heat transfer analysis of Couette and Poiseuille flow of a hybrid nanofluid with temperature-dependent viscosity and thermal conductivity	2023	Case Studies in Thermal Engineering	10.1016/j.csite.2023.103550	Scopus

54	Sanjeet K.; Reddy M.M.; Meena I.; Kumar R.M.S.	Flood frequency and flood forecasting analysis of Krishna basin andhra Pradesh	2023	Disaster Advances	10.25303/1611da027039	Scopus
55	Venkanna G.; Rao A.T.; Kumar K.S.; Prasad M.S.N.A.; Kalyani C.; Kumar G.S.; Srinivas V.	Design, Synthesis, and Antimicrobial Evaluation of Quinolones Containing 1,2,3-Triazole Moieties: In Silico Docking Techniques	2024	Russian Journal of Bioorganic Chemistry	10.1134/S1068162024040277	Scopus
56	Lakshmanachari S.; Shaik S.; Satyanarayana G.S.R.; Vasavi I.; Vijay V.; Pittala C.S.	1-bit full adder design using next generation semiconductor devices and performance benchmarking at low supply voltages	2024	International Journal of System Assurance Engineering and Management	10.1007/s13198-023-02181-y	Scopus
57	Zuhayer A.; Reddy M.M.; Anwer T.M.K.; Ahammad S.H.; Hossain M.A.; Rashed A.N.Z.; Mahrous L.	Study and development of dual core photonic crystal fiber for the employment of guided waves polarization modes	2024	Journal of Optical Communications	10.1515/joc-2023-0037	Scopus
58	Raju A.S.N.; Sujatha G.; Gatla R.K.; Ankalaki S.	SpinachXAI-Rec: a multi-stage explainable AI framework for spinach freshness classification and consumer recommendation	2025	Scientific Reports	10.1038/s41598-025-19804-y	Scopus
59	Priya K.; Sharma G.; Dang A.S.; Giri S.K.; Singh G.; Dhiman S.S.; Kumar A.; Rustagi S.; Ranjan N.; Raj S.; Kumar A.	Genetic polymorphism in Angiotensin-Converting Enzyme (ACE) and Asthma risk: A comparative meta-analysis based on Four gene model strategy	2025	Journal of Integrated Science and Technology	10.62110/sciencein.jist.2025.v13.1033	Scopus
60	Hari Prasad K.; Vinoth S.; Ganesh V.; Ade R.; Yahia I.S.	Enhanced photo-sensing activity of In-doped ZnO nanoparticles synthesized by wet chemical method	2024	Physica B: Condensed Matter	10.1016/j.physb.2024.415710	Scopus
61	Marichelvam M.K.; Kumar C.L.; Kandakodeeswaran K.; Thangagiri B.; Saxena K.K.; Kishore K.; Wagri N.K.; Kumar S.	Investigation on mechanical properties of novel natural fiber-epoxy resin hybrid composites for engineering structural applications	2023	Case Studies in Construction Materials	10.1016/j.cscm.2023.e02356	Scopus
62	Mallikarjuna K.; Reddy Prasad P.; Bathula C.; Siva Kumar N.; Al-Fatesh A.S.; Kim H.-S.; Bai C.; Neelakanta Reddy I.	Construction of highly efficient CuS/CdS nanostructure for enhanced solar H2 evolution	2023	Inorganic Chemistry Communications	10.1016/j.inoche.2023.111619	Scopus

63	Sathees kumar S.; Seenivasan S.; Isaac Premkumar I.J.; Vijayakumar S.; Anusha P.; Pradeep A.	Analysis of wear mechanisms in AA2024/TiB2 composites under different loads	2024	Interactions	10.1007/s10751-024-02102-w	Scopus
64	Nennuri R.; Iwin Thanakumar Joseph S.; Ismail B.M.; Prasad L.V.N.	A Hybrid Probabilistic Graph Based Community Clustering Model for Large Social Networking Link Prediction Data	2024	International Journal of Computational and Experimental Science and Engineering	10.22399/ijcesen.574	Scopus
65	Vattikuti S.V.P.; Prasad P.R.; Aljuwayid A.M.; Rosaiah P.; Sudhani H.P.K.; Shim J.	Enhanced solar light-induced performance of a step-scheme heterojunction nanostructure (C3N4/ZrO2) for mixed dye degradation and methanol oxidation	2024	Materials Science in Semiconductor Processing	10.1016/j.mssp.2024.108342	Scopus
66	Jadhav V.; Ahire B.; Pawar A.; Roy A.; Kumar A.; Sharma K.; Raj S.; Verma R.	Nanobiochar: A sustainable solution for environmental remediation	2025	Environmental Nanotechnology, Monitoring and Management	10.1016/j.enmm.2025.101061	Scopus
67	Rijwani T.; Kumari S.; Srinivas R.; Abhishek K.; Iyer G.; Vara H.; Dubey S.; Revathi V.; Gupta M.	Industry 5.0: a review of emerging trends and transformative technologies in the next industrial revolution	2025	International Journal on Interactive Design and Manufacturing	10.1007/s12008-024-01943-7	Scopus
68	Begam S.R.; Burthi L.R.; Depuru S.R.	Regenerative Braking in Electric Vehicles using BLDC motor with Modified Torque and Adaptive-Neuro-Fuzzy-Control; [Hamowanie regeneracyjne w pojazdach elektrycznych z wykorzystaniem silnika BLDC ze zmodyfikowanym momentem obrotowym i sterowaniem adaptacyjnym Neuro-Fuzzy]	2024	Przegląd Elektrotechniczny	10.15199/48.2024.03.33	Scopus
69	Kumar C.L.; Betam S.; Pustokhin D.; Laxmi Lydia E.; Bala K.; Aluvalu R.; Panigrahi B.S.	Metaparameter optimized hybrid deep learning model for next generation cybersecurity in software defined networking environment	2025	Scientific Reports	10.1038/s41598-025-96153-w	Scopus

70	Srinag T.; Srinivas C.L.; Sandeep C.H.; Phani Prasanthi P.; Madhav V.V.V.; Kumar A.; Chandrashekar R.; Bandhu D.; Singh S.K.; Lakshmi A.A.	Mechanical characterization of walnut shell powder-reinforced neem shell liquid composite	2025	Journal of the Mechanical Behavior of Materials	10.1515/jmbm-2025-0078	Scopus
71	Mohammed K.A.; Judi H.K.; Ramu G.; Alkhafaji M.A.; Zabibah R.S.; Saxena A.	New Method for Preparation ZnSe Nanoparticles and Application as Antibacterial Agent	2024	International Journal of Nanoscience	10.1142/S0219581X23500576	Scopus
72	Vamsikrishna K.; Usha P.; Venkatesh D.; Ramesh T.	Structural, morphological, optical, and magnetic properties of NiO-added NiCo ₂ O ₄ electrode materials synthesized by sol-gel, Co-precipitation and ultrasonication methods and their electrochemical supercapacitor response	2024	Ceramics International	10.1016/j.ceramint.2024.05.392	Scopus
73	Rashed A.N.Z.; Reddy M.M.; Nagendram S.; Anwer T.M.K.; Ahammad S.H.; Kumar M.S.; Hossain M.A.; Mousad A.	Performance evaluation simulation of the optical splitters integrated with unidirectional fiber elements	2024	Journal of Optical Communications	10.1515/joc-2023-0018	Scopus
74	Gowda V.D.; Suneel S.; Prasad V.N.; Jagtap M.M.; Prasad K.D.V.; Ramaswamy S.; Hariram V.	A novel approach to real-time environmental monitoring and automated air quality enhancement using smart nanostructured sensors with adaptive data processing	2025	Nanotechnology for Environmental Engineering	10.1007/s41204-025-00446-4	Scopus
75	Vijayakrishna B.; Mrudula G.; Sagar Y.; Prakash P.; Janaki D.V.; Satyanarayana M.V.N.V.	Mechanical Properties Enhancement in Friction Stir Processed AA2024 Alloy through Pin Profile Optimization	2025	Journal of The Institution of Engineers (India): Series D	10.1007/s40033-024-00751-3	Scopus
76	Mohammed K.A.; AlKareem Shihab S.A.; Algburi S.; Bhavani B.; Kareem A.; Alkhafaji M.A.; Zabibah R.S.; Sharma S.	Synthesis and Characterization of PVA-Encapsulated Fe ₂ O ₃ -ZnO as New Composites with Tunable Optical Properties	2024	Revue des Composites et des Materiaux Avances	10.18280/rcma.340205	Scopus
77	Sowmya K.; Aparna Y.; Chendra Prakash A.; Thotakura R.; Bhaskar A.	Influence of Metal (Al, Mg, Sm, and Cu) Dopants on Structural, Optical, Magnetic, and Antimicrobial Properties of ZnO Nanopowders Synthesized by Coprecipitation Method	2024	Physica Status Solidi (A) Applications and Materials Science	10.1002/pssa.202300628	Scopus

78	Raj R.G.; Tanuja G.G.; Kumar C.L.; Nittala N.A.P.; Srinath M.K.; Abdullaev S.S.; Bandhu D.	Influence of twin-screw elements on dispersion of nano-clay in vinyl ester polymer composites using Taguchi's orthogonal array technique	2024	International Journal on Interactive Design and Manufacturing	10.1007/s12008-023-01492-5	Scopus
79	Jayarambabu N.; Rao N.V.S.S.S.; Sivalenka M.K.C.; Saraswathi K.; Naick B.S.; Anitha N.; Rao T.V.	Bamboo-derived activated carbon-functionalized ZnO NPs for non-enzymatic glucose sensing	2024	Diamond and Related Materials	10.1016/j.diamond.2024.110959	Scopus
80	Prasad K.H.; Vinoth S.; Ganesh V.; Ade R.	Synthesis and enhanced room temperature ammonia gas-sensing properties of In-doped MoO ₃ thin films prepared via nebulizer spray pyrolysis technique	2024	Ionics	10.1007/s11581-023-05333-z	Scopus
81	Gonthina N.; Narasimha Prasad L.V.	An optimized multi-objective-derived U-net for semantic segmentation in high-resolution remote sensing images	2025	Signal, Image and Video Processing	10.1007/s11760-025-04342-x	Scopus
82	Sivaramakrishna B.; Santhosh Kumar Ch.N.; Subba Rao B.V.; Rama Krishna V.; Ganiya R.K.; Nageswara Rao J.	Evaluating the Performance of Vascular Feature Extraction Boosting Algorithm for Peripheral Arterial Disease Detection	2024	International Journal of Pattern Recognition and Artificial Intelligence	10.1142/S021800142456010X	Scopus
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