

List of Publications (Scopus indexed)

2025

Sl. No.	Authors	Title	Year	Source title	DOI	Document Type	SCOPUS Indexed	WoS Indexed
1	Suresha, R.; Chandra, J.R.B.; Prabhu, N.N.; H K, H.K.; George, G.; Parasuram, S.; Shivamurthy, B.	Electrospun Ni-doped ZnO nanofiber coatings on carbon fabric for enhanced electromagnetic interference shielding	2025	Scientific Reports	10.1038/s41598-025-28517-1	Article	YES	YES
2	George, G.; Balakrishnamurthy, S.K.; Shivamurthy, B.; Raghav, G.R.; Rengaraj, M.; Senthil, T.	Preparation and characterization of SiC particle enhanced polyester fabric/epoxy hybrid composites	2025	Polymer Composites	10.1002/pc.29897	Article	YES	YES
3	Sindhu, A.R.; Abraham, B.M.; Pillai, A.G.; Sridharan, A.	Mitigation Strategies for Strength Reduction in Lime-Stabilised Sulphate Bearing Kuttanad Marine Clays	2025	Indian Geotechnical Journal	10.1007/s40098-024-01095-1	Article	YES	YES
4	S, A.; R, S.; Nambiar, S.K.; Cherian, A.	A comprehensive deep learning approach for skin cancer diagnosis: integrating interpretability and advanced techniques	2025	Multimedia Tools and Applications	10.1007/s11042-025-20854-7	Article	YES	YES
5	Ashok Kumar, A.; Raaja, R.G.; Jawaharlal, N.K.; Rengarajan, S.; Mohan, M.; Durairaj, M.	Consequences of Modification in Interface Angles of the Plates in Friction Stir Welding of Different Aluminium Alloys	2025	International Journal of Vehicle Structures and Systems	10.4273/ijvss.17.3.24	Article	YES	NO
6	Praseeja, A.V.; Younus, S.	Monitoring of ground water level fluctuation in Chittur, Palakkad	2025	International Journal of Energy and Water Resources	10.1007/s42108-024-00325-9	Article	YES	NO
7	Hu, Y.; Zhang, Z.; Zhang, F.; Menon, V.G.	A Collaborative SLAM Method Based on Cardinality Balanced Multi-Bernoulli Filter with Adaptive	2025	Measurement: Journal of the International Measurement	10.1016/j.measurement.2025.117531	Article	YES	YES

		Information Control		Confederation				
8	Seeni Thangaraj Pandian, R.; Suresh, S.; Hameed, M.S.; Pitchia Krishnan, B.P.; S.r, S.R.	Accelerated synthesis of transition metal-enhanced perovskite SSPCMs for thermal energy storage	2025	Journal of Energy Storage	10.1016/j.est.2025.116157	Article	YES	YES
9	Sindhu, A.R.; Abraham, B.M.; Pillai, A.G.; Sridharan, A.	Innovative solution for sulfate challenges in lime stabilisation of Cochin marine clays	2025	Proceedings of the Institution of Civil Engineers: Ground Improvement	10.1680/jgrim.24.00030	Article	YES	YES
10	K.v, C.; King, D.G.R.G.	Automated detection of pancreatic cancer with segmentation and classification using fusion of UNET and CNN through spider monkey optimization	2025	Biomedical Signal Processing and Control	10.1016/j.bspc.2024.107413	Article	YES	YES
11	Sebastian, J.; Amrutha, S.R.; Suja, N.R.; Mohan, N.; Sreejith, S.S.; Sithambaresan, M.; Priya, M.; Muraleedharan Nair, M.K.	Bioactivity Modulation: Anionic Influence on Cu(II) Schiff Base Complexes	2025	Applied Organometallic Chemistry	10.1002/aoc.7853	Article	YES	YES
12	Priya, L.; Sekar, A.; Biju, M.S.; Varghese, G.K.; Gwinnett, C.	LEVERAGING ENVIRONMENTAL FORENSIC EXPERTISE FOR EFFICIENT POLLUTION LIABILITY ALLOCATION	2025	Detritus	10.31025/2611-4135/2025.19473	Article	YES	YES
13	Jacob, J.M.; Mohan, N.; S · s · , S.; Sithambaresan, M.; Manoj, E.; Kurup, M.R.P.	Multi-faceted investigation of copper(II) chelates based on ONS donor thiosemicarbazone: Crystal structures, spectral aspects, DNA binding, cytotoxicity and computational studies	2025	Journal of Molecular Structure	10.1016/j.molstruc.2024.139463	Article	YES	YES
14	Du, Y.; Hu, Y.; Zhang, F.; Menon, V.G.; Ji, B.	Three-Dimensional Channel Estimation for Near-Field XL-RIS: A Polar-Domain Approach	2025	IEEE Transactions on Consumer Electronics	10.1109/TCE.2025.3543774	Article	YES	YES

15	Kennedy, S.M.; Raghav, G.R.; Jerold John Britto, J.J.J.; Amudhan, K.	MORPHOLOGICAL INSIGHTS OF CARBON NANOMATERIALS USING ATOMIC FORCE MICROSCOPY AND THEIR APPLICATIONS	2025	Surface Review and Letters	10.1142/S0218625X25300096	Article	YES	YES
16	Remya, R.; Jacob, A.; E A, S.	Development of lateral acceleration prediction models and consistency evaluation criteria for horizontal curves with gradient on two lane rural highways	2025	Traffic Injury Prevention	10.1080/15389588.2024.2416463	Article	YES	YES
17	Behera, S.; Adhikari, M.; Menon, V.G.; Khan, M.A.	Large Model-Assisted Federated Learning for Object Detection of Autonomous Vehicles in Edge	2025	IEEE Transactions on Vehicular Technology	10.1109/TVT.2024.3404097	Article	YES	YES
18	Ji, B.; Dong, B.; Li, D.; Wang, Y.; Yang, L.; Tsimenidis, C.; Menon, V.G.	Optimization of Resource Allocation for V2X Security Communication Based on Multi-Agent Reinforcement Learning	2025	IEEE Transactions on Vehicular Technology	10.1109/TVT.2023.3340424	Article	YES	YES
19	Madhanmohan, V.P.; Nandakumar, M.; Saleem, A.	Enhanced performance of partially shaded photovoltaic arrays using diagonally dispersed total cross tied configuration	2025	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	10.1080/15567036.2020.1826008	Article	YES	YES
20	Tummala, V.M.R.; Hemanth Kakarla, J.H.; Hazra, A.; Menon, V.G.	FedCSL: Cyclic Sequential Federated Learning for Mitigating Distributional Shifts in Consumer Healthcare IoT Systems	2025	IEEE Transactions on Consumer Electronics	10.1109/TCE.2025.3643908	Article	YES	YES
21	Priya, L.; Varghese, G.K.	Attributing Environmental Contamination: Assessing Liability Through Monte Carlo-Based Source Apportionment	2025	Environmental Claims Journal	10.1080/10406026.2025.2601002	Article	YES	NO
22	Babu, G.R.; Nair, R.P.	Blast resistance of sandwich structures with auxetic double	2025	Pollack Periodica	10.1556/606.2025.01272	Article	YES	YES

		arrowhead cores						
23	P V, V.; K R, S.K.; K R, V.; M K, J.; P N, P.; K P, M.	Community Engagement in Literacy Promotion- A Cross Sectional Study of the Light of Letters (Aksharadeepam) Doorstep Book Delivery Programs in Kerala, India	2025	Public Library Quarterly	10.1080/01616846.2025.2591553	Article	YES	YES
24	Felshiya Rajakumari, R.F.; Nithin, K.; Jaganathan, S.; Shagul; Raja, M.A.; Devi, M.R.	Performance analysis of modern EV batteries: efficiency, longevity, and future innovations	2025	International Journal of System Assurance Engineering and Management	10.1007/s13198-025-02989-w	Article	YES	YES
25	K J, A.; Priya, L.	Source Apportionment of Heavy Metals in Sediments of an Industrial Belt in Kochi (India) Using Positive Matrix Factorization	2025	Soil and Sediment Contamination	10.1080/15320383.2025.2564861	Article	YES	YES
26	Murugasami, R.; Sundararajan, D.; Kannan Nithin, K.N.K.; Cheerla, S.	Design of high speed 4 bit LFSR using reversible logic gate for security applications	2025	International Journal of System Assurance Engineering and Management	10.1007/s13198-025-02947-6	Article	YES	YES
27	Du, Y.; Hu, Y.; Zhang, F.; Menon, V.G.; Ji, B.	Beamforming-Based Energy Efficiency Optimization With CRB Guarantees in RIS-Assisted ISAC Systems	2025	IEEE Wireless Communications Letters	10.1109/LWC.2025.3608159	Article	YES	YES
28	Li, S.; Zhang, F.; Menon, V.G.; Wang, X.; Hu, Y.	SupAtten-SLAM: SuperPoint Variant Network Visual SLAM Based on Multiattention Mechanism	2025	IEEE Sensors Journal	10.1109/JSEN.2025.3599843	Article	YES	YES
29	Wang, X.; Zhang, F.; Menon, V.G.; Hu, Y.; Tang, X.	A visual SLAM method based on double attention feature point extraction network	2025	Transactions of the Institute of Measurement and Control	10.1177/01423312251344676	Article	YES	YES
30	Kannan Nithin, K.N.K.; Sundararajan, D.; Krishnappa, M.R.; Senthil Kumar, S.K.;	Enhancing energy management and power quality in grid-connected	2025	International Journal of Advanced	10.1007/s00170-025-15600-0	Article	YES	YES

	Premalatha, M.; Sivaraju, S.S.; Usha, S.	photovoltaic systems through ESS and STATCOM integration		Manufacturing Technology				
31	Kannan Nithin, K.N.K.; Sundararajan, D.; Krishnappa, M.R.; Rampriya, R.B.; Cheerla, S.; Sivaraju, S.S.	An innovative optimized flyback transformer-based active cell balancing system for enhanced battery management in series-connected battery packs of electric vehicle	2025	International Journal of Advanced Manufacturing Technology	10.1007/s00170-025-15527-6	Article	YES	YES
32	Hazra, A.; Maurya, P.; Kalita, A.; Deb, S.; Gurusamy, M.; Menon, V.G.	Cognitive Computing and Machine Intelligence in Fog-Cloud Infrastructure for Industry 5.0	2025	IEEE Consumer Electronics Magazine	10.1109/MCE.2024.3405109	Article	YES	YES
33	Alex, S.A.; Menon, V.G.; Adhikari, M.; Mumtaz, S.	Zero-Touch Self-Organizing Networks in 6G: Integrating Edge Computing and Artificial Intelligence	2025	IEEE Communications Standards Magazine	10.1109/MCOMSTD.2025.3614978	Review	YES	NO
34	George, G.; Raghav, G.R.; Thomas, N.R.; Ede, S.R.; Shivamurthy, B.; Nair, A.K.; Senthil, T.	Gold Nanoparticles-Based Gas Sensors: A Comprehensive Review of Design, Mechanisms, and Applications	2025	Critical Reviews in Analytical Chemistry	10.1080/10408347.2025.2512174	Review	YES	YES
35	George, G.; Raghav, G.R.; Babu, J.S.	Nanotechnology for mechanical engineers	2025		10.1201/9781003317272	Book	YES	NO
36	Mohamed Fathimal, P.M.; Kumar, T.G.; Loret, J.B.S.; Lakshmi, V.; Manish, T.I.	Advances of Machine Learning for Knowledge Mining in Electronic Health Records	2025		10.1201/9781003408376	Book	YES	NO
37	Menon, S.; Raveendranath, R.; Surya, K.A.	Review of "Optimizing Peer Review Workflows with AI: A Queuing Model Approach"	2025		10.1002/9781394307302.ch15	Book chapter	YES	NO
38	Menon, S.; Surya, K.A.; Raveendranath, R.	Simulating M/G/1 Queuing Network with Time-Varying Arrival Rates and Server Failure Using Python Programming	2025		10.1002/9781394307302.ch4	Book chapter	YES	NO
39	Mohan, N.; Anand, S.K.; Sreejith, S.S.	Fluorescence Sensing of Metal Ions Using Cyclodextrins	2025		10.1007/978-3-031-89299-8_8	Book chapter	YES	NO

40	Geethu, R.; Santhosh, M.V.	Copper Tin Sulphide: Potential Candidate for Solar Energy Conversion	2025			Book chapter	YES	NO
41	John, B.; Nidhina, K.	Gold Price Forecasting Using Machine Learning Techniques	2025	Communications in Computer and Information Science	10.1007/978-3-031-82383-1_22	Conference paper	YES	NO
42	Divya, M.P.; Beegam, S.; Sareena, K.K.; Habeeb, H.M.	Hybrid Reinforcement Learning and Supervised Learning for Fault Detection and Tolerance in Cyber-Physical Systems	2025		10.1109/ICESC65114.2025.11212250	Conference paper	YES	NO
43	Praseeja, A.V.; Anjali, A.M.	Numerical Modelling of Seawater Intrusion in Coastal Areas of Kochi	2025	Lecture Notes in Civil Engineering	10.1007/978-981-95-1495-3_3	Conference paper	YES	NO
44	Robert, S.; Menon, R.; George, S.	Sustainable Wastewater Management Through Nature-Based Solutions in an Educational Institution: A Case Study from Kochi, India	2025	Lecture Notes in Civil Engineering	10.1007/978-981-95-1495-3_21	Conference paper	YES	NO
45	Haridas, N.; Luckins, N.	Sediment Transport Modelling Using HEC-HMS for Kadambayar Watershed	2025	Lecture Notes in Civil Engineering	10.1007/978-981-95-1495-3_4	Conference paper	YES	NO
46	Priya, L.; Ajith, A.; Grace, B.; Paul, C.M.; Antony, G.	Geochemical Distribution and Environmental Risk Assessment of Heavy Metals in an Urban Water Body	2025	Lecture Notes in Civil Engineering	10.1007/978-981-95-1495-3_18	Conference paper	YES	NO
47	Pai, R.R.; Jayalekshmi, S.	Evaluating the Strength and Durability Characteristics of Crushed Brick–Fly Ash–Lime Mix for Sustainable Utilization as a Subbase Layer in Flexible Pavement	2025	Lecture Notes in Civil Engineering	10.1007/978-981-96-8484-7_30	Conference paper	YES	NO
48	Divya, K.S.; Manish, T.I.	Deep Learning and Multimodal Integration in Glaucoma Detection: A State-of-the-Art Review	2025		10.1109/ICSCSA66339.2025.11170874	Conference paper	YES	NO

49	Mathew, M.P.; Salam, S.; Kk, S.; Mm, D.; Kr, S.; Mathews, S.	Real-Time Automatic Detection of Grape Leaf Diseases with MobileNetV2 Deep Learning Network Based on Artificial Intelligence	2025		10.1109/ACCTHPA65749.2025.11168579	Conference paper	YES	NO
50	Thalap, H.; Yohannan, J.; Anandhi, V.	Stack and throw using robotic assistance	2025		10.1109/ACCESS65134.2025.11135736	Conference paper	YES	NO
51	Vinoj, P.G.; Menon, V.G.	AI assisted BCI system for rehabilitation	2025		10.1109/ACCESS65134.2025.11135765	Conference paper	YES	NO
52	Gandhi, M.A.; Surya, S.G.; Oyeboode, O.J.; Ramesh, P.; Kumar, B.S.; Babu Nalla, S.	Prediction of Injuries and Fatalities in Aircraft Accidents through Ensemble Hybrid C-SEResNet Approach	2025		10.1109/ICDSIS65355.2025.11070436	Conference paper	YES	NO
53	Jayalekshmi, S.; Pai, R.R.	Applicability of Marginal Materials as Base and Sub-Base Course in Flexible Pavement—a Review	2025	Lecture Notes in Civil Engineering	10.1007/978-981-96-1373-1_32	Conference paper	YES	NO
54	V.U., V.U.; Manish, T.I.; Manesh, K.K.	Cancer Specific Epigenetic Biomarker Extraction from DNA Methylation and Gene Expression Data	2025		10.1109/IEEECONF64992.2025.10962874	Conference paper	YES	NO
55	John, B.; Menon, V.G.; Adhikari, M.	FedCosA: Optimised Federated Learning Model Using Cosine Annealing	2025		10.1109/ETIS64005.2025.10961532	Conference paper	YES	NO
56	John, B.; Menon, V.G.; Adhikari, M.	FedNorm: Optimised Federated Learning Strategy Using Hybrid Regularisation Norm	2025	Lecture Notes in Computer Science	10.1007/978-3-031-81821-9_22	Conference paper	YES	NO
57	Ashraf, M.I.; Guizani, M.; Menon, V.G.; Mumtaz, S.	Series Editorial: ULTRA-Low Latency and Reliable Communications for Future Wireless Networks	2025	IEEE Communications Magazine	10.1109/MCOMSTD.2024.10666397	Editorial	YES	NO
58	Mumtaz, S.; Ashraf, M.I.; Menon, V.G.; Abbas, T.; Al-Dulaimi, A.	Guest Editorial Intelligent Autonomous Transportation System with 6G	2025	IEEE Transactions on Intelligent Transportation Systems	10.1109/TITS.2025.3609618	Editorial	YES	YES

59	Menon, V.G.; Adhikari, M.; Gupta, B.B.; Hazra, A.; Mastorakis, S.	Guest Editorial: Edge Intelligence for Next Generation Industrial IoT Applications	2025	IET Networks	10.1049/ntw2.70008	Editorial	YES	YES
60	Lekshmi Nair M.; Neelakantan P.C.	Performance Analysis of Cluster Cell NOMA in Dense Environment	2025	2025 11th International Conference on Smart Computing and Communications: Intelligent Technologies for a Sustainable World, ICSCC 2025	10.1109/ICSCC66177.2025.11233250	Conference paper	YES	NO
61	Suresha R.; Sachidananda H.K.; Shivamurthy B.; George G.; Parasuram S.	Structural properties and electromagnetic shielding performance of bidirectional carbon fabric and Fe ₂ O ₃ nano filler reinforced epoxy composites	2025	RSC Advances	10.1039/d5ra06245d	Article	YES	YES
62	Divya K.S.; Manish T.I.; Nataraj N.K.; Venu A.; Prasad A.K.; Paul A.M.	CARE: A Comprehensive AI Retinal Expert for Disease Detection Using OCT Imaging and Explainable AI	2025	2025 IEEE International Conference on Advances in Computing Research on Science Engineering and Technology, ACROSET 2025	10.1109/ACROSET66531.2025.11281222	Conference paper	YES	NO
63	Roshan D.; Mahesh D.; Naveen V.S.; Mary Catherine V.G.	Deep Learning-Based Human Detection Rover for AI-Powered Search and Rescue in Disaster Zones	2025	2025 11th International Conference on Smart Computing and Communications: Intelligent Technologies for a Sustainable World,	10.1109/ICSCC66177.2025.11233458	Conference paper	YES	NO

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64	Raju R.; Jayakrishnan B.; Bijoy B.; Anvar Sadath A.K.; Archana P.G.; Rahul S.	Surface Sleuth: High- Resolution Fingerprint Discovery	2025	2025 11th International Conference on Smart Computing and Communications: Intelligent Technologies for a Sustainable World, ICSCC 2025	10.1109/ICSCC66177.2025.1123 3479	Conference paper	YES	NO