

List of Publications

2023

Sl. No.	Authors	Title	Year	Source title	DOI	Document Type	SCOPUS Indexed	WoS Indexed
1	Kuriakose, M.; Abraham, B.M.; Pillai, A.G.	Mitigation of Adverse Effects of Sulfates in Cement Treated Marine Clay Subgrades	2023	Geotechnical Engineering		Article	YES	YES
2	Khosravi, M.R.; Rezaee, K.; Moghimi, M.K.; Wan, S.; Menon, V.G.	Crowd Emotion Prediction for Human-Vehicle Interaction Through Modified Transfer Learning and Fuzzy Logic Ranking	2023	IEEE Transactions on Intelligent Transportation Systems	10.1109/TITS.2023.3239114	Article	YES	YES
3	Rezaee, K.; Khosravi, M.R.; Attar, H.; Menon, V.G.; Khan, M.A.; Issa, H.; Qi, L.	IoMT-Assisted Medical Vehicle Routing Based on UAV-Borne Human Crowd Sensing and Deep Learning in Smart Cities	2023	IEEE Internet of Things Journal	10.1109/JIOT.2023.3284056	Article	YES	YES
4	Vishnudas, C.K.; King, D.G.R.G.	Computer-aided diagnosis for early detection and staging of human pancreatic tumors using an optimized 3D CNN on computed tomography	2023	Multimedia Systems	10.1007/s00530-023-01146-2	Article	YES	YES
5	Jacob, S.; Vinod, P.; Subramanian, A.; Menon, V.G.	Affect sensing from smartphones through touch and motion contexts	2023	Multimedia Systems	10.1007/s00530-023-01142-6	Article	YES	YES
6	Asha, S.; Vinod, P.; Menon, V.G.	A defensive framework for deepfake detection under adversarial settings using temporal and spatial features	2023	International Journal of Information Security	10.1007/s10207-023-00695-x	Article	YES	YES
7	Raghav, G.R.; Nagarajan, K.J.; PalaniNathaRaja, M.; Karthic, M.; Ashok Kumar, A.; Ganesh, M.A.	Reuse of used paper egg carton boxes as a source to produce hybrid AgNPs- carboxyl nanocellulose through bio-synthesis and its application in active food packaging	2023	International Journal of Biological Macromolecules	10.1016/j.ijbiomac.2023.126119	Article	YES	YES

8	Adil, M.; Menon, V.G.; Balasubramanian, V.; Alotaibi, S.R.; Song, H.; Jin, Z.; Farouk, A.	Survey: Self-Empowered Wireless Sensor Networks Security Taxonomy, Challenges, and Future Research Directions	2023	IEEE Sensors Journal	10.1109/JSEN.2022.3216824	Article	YES	YES
9	Pranav, T.; Krishnan, A.A.; Mahesh, R.; Jithu, J.; Sajeesh, P.	Biomechanical analysis of railway workers during loaded walking and keyman hammering	2023	Research on Biomedical Engineering	10.1007/s42600-023-00290-y	Article	YES	NO
10	Joseph, A.; Thomas, S.	Heat transfer performance and fouling factor analysis of carbon dot nanofluid synthesized using one-step method	2023	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-023-12106-3	Article	YES	YES
11	Pal, R.; Tripathi, A.K.; Pandey, A.C.; Khan, M.A.; Menon, V.G.; Mittal, H.	A N2CNN-Based Anomaly Detection Method for Cardiovascular Data in Cyber-Physical System	2023	IEEE Transactions on Network Science and Engineering	10.1109/TNSE.2022.3188881	Article	YES	YES
12	Prabhu, N.N.; Rajendra, B.V.; Anandhan, S.; Murthy, K.; Jagadeesh Chandra, R.B.; George, G.; Kumar, B.; Shivamurthy, B.	Understanding the interplay of solution and process parameters on the physico-chemical properties of ZnO nanofibers synthesized by sol-gel electrospinning	2023	Materials Research Express	10.1088/2053-1591/acead4	Article	YES	YES
13	Arshey, M.; Daniel, R.; Rao, D.D.; Raja, E.; Rao, D.C.; Deshpande, A.	Optimizing Routing in Nature-Inspired Algorithms to Improve Performance of Mobile Ad-Hoc Network	2023	International Journal of Intelligent Systems and Applications in Engineering		Article	YES	NO
14	Nandy, S.; Adhikari, M.; Balasubramanian, V.; Menon, V.G.; Li, X.; Zakarya, M.	An intelligent heart disease prediction system based on swarm-artificial neural network	2023	Neural Computing and Applications	10.1007/s00521-021-06124-1	Article	YES	YES
15	Ealias, A.M.; Emlin, V.	Development of high-performance self curing concrete using super absorbent polymer and silica fume additives	2023	Research on Engineering Structures and Materials	10.17515/resm2022.469st0713tn	Article	YES	NO

16	Menon, B.G.; Sahadev, S.; Mahanty, A.; Praveensal, C.J.; Asha, G.	Trivariate causality between economic growth, energy consumption, and carbon emissions: empirical evidence from India	2023	Energy Efficiency	10.1007/s12053-023-10118-4	Article	YES	YES
17	Dhanya, K.A.; Vinod, P.; Yerima, S.Y.; Bashar, A.; David, A.; Abhiram, T.; Antony, A.; Shavanas, A.K.; Gireesh Kumar, T.	Obfuscated Malware Detection in IoT Android Applications Using Markov Images and CNN	2023	IEEE Systems Journal	10.1109/JSYST.2023.3238678	Article	YES	YES
18	Robert, S.; Luckins, N.; Menon, R.	Quality deterioration of an Indian urban water source near an open dumping site	2023	Water Practice and Technology	10.2166/wpt.2023.056	Article	YES	YES
19	Alkinani, M.H.; Almazroi, A.A.; Adhikari, M.; Menon, V.G.	Artificial Intelligence-Empowered Logistic Traffic Management System Using Empirical Intelligent XGBoost Technique in Vehicular Edge Networks	2023	IEEE Transactions on Intelligent Transportation Systems	10.1109/TITS.2022.3145403	Article	YES	YES
20	Krishna, N.; Amitha, R.; John, N.M.; Kurian, S.M.	Training and Classification of PCA with LRM model for Diabetes Prediction	2023	International Journal on Recent and Innovation Trends in Computing and Communication	10.17762/ijritcc.v11i4s.6302	Article	YES	NO
21	Munusamy, A.; Adhikari, M.; Khan, M.A.; Menon, V.G.; Srirama, S.N.; Alex, L.T.; Khosravi, M.R.	Edge-Centric Secure Service Provisioning in IoT-Enabled Maritime Transportation Systems	2023	IEEE Transactions on Intelligent Transportation Systems	10.1109/TITS.2021.3102957	Article	YES	YES
22	Santhosh, M.V.; Geethu, R.; Devaky, K.S.	Solvothermal synthesis of WS2 rectangular nanoplates and their application in photothermal therapy	2023	Journal of Materials Science: Materials in Electronics	10.1007/s10854-022-09788-0	Article	YES	YES
23	Munusamy, A.; Adhikari, M.; Balasubramanian, V.; Khan, M.A.; Menon, V.G.; Rawat, D.B.; Srirama, S.N.	Service Deployment Strategy for Predictive Analysis of FinTech IoT Applications in Edge Networks	2023	IEEE Internet of Things Journal	10.1109/JIOT.2021.3078148	Article	YES	YES

24	Nandy, S.; Adhikari, M.; Hazra, A.; Mukherjee, T.; Menon, V.G.	Analysis of Communicable Disease Symptoms Using Bag-of-Neural Network at Edge Networks	2023	IEEE Sensors Journal	10.1109/JSEN.2022.3167416	Article	YES	YES
25	Jacob, S.; Puthuvath, V.; Akarsh, M.; George, J.; Joseph, J.; Joy, J.	A smartphone authentication system based on touch gesture dynamics	2023	Concurrency and Computation: Practice and Experience	10.1002/cpe.7449	Article	YES	YES
26	Avinash, T.G.; Althaf, K.A.; Yadu, R.V.; Shabeeb, K.N.; Raghav, G.R.	A Review on Additive Manufacturing Process	2023	Metallofizika i Noveishie Tekhnologii	10.15407/mfint.45.06.0795	Article	YES	NO
27	Raghav, G.R.; Ashok Kumar, A.; Jawaharlal, N.K.; Vignesh, C.; Felix Sahayaraj, F.S.; Syafri, E.	Effect of cellulose nanofibers from red coconut peduncle waste as reinforcement in epoxy composite sheets	2023	Cellulose Chemistry and Technology	10.35812/CelluloseChemTechnol.2023.57.75	Article	YES	YES
28	Sani, C.T.; Rupesh, S.; Xavier, C.B.; Rag, R.L.	Analysis of methanol recovery using component specific reaction kinetics in biodiesel synthesis	2023	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	10.1080/15567036.2023.2209033	Article	YES	YES
29	Selvaraj, S.; Preetha, R.; Joselin Jeya Sheela, J.; Durga Devi, K.; Warriar, G.S.; Krishnan, R.	Location of Early Stage Tumor Detection using Microwave Imaging in the Breast Phantom	2023	Current Medical Imaging	10.2174/1573405618666220621114937	Article	YES	YES
30	Viswanath, A.; Anish, M.N.; Sridharan, R.	Modified multi-objective simulated annealing algorithm for scheduling a flow shop production system with setup times	2023	International Journal of Process Management and Benchmarking	10.1504/IJPMB.2021.10040202	Article	YES	NO
31	D'Cotha, J.S.; Sajeesh, P.; Suresh, P.R.	Influence of initial water depth of extended stepped tray on the productivity while working beyond sunshine hours	2023	Materials Today: Proceedings	10.1016/j.matpr.2022.12.269	Article	YES	NO
32	Ashok Kumar, A.; Pandiyarajan, R.; G R, R.; Nagarajan, K.J.; Rengarajan, S.; D, S.P.; Sudhakar, K.	Role of traversing speed and axial load on the properties of friction stir welded dissimilar AA6101-T6 AND AA1350 aluminium alloys	2023	Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of	10.1080/02533839.2022.2141338	Article	YES	YES

				Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an				
33	Kumbalaparambi, T.S.; Menon, R.; Radhakrishnan, V.P.; Nair, V.P.	Assessment of urban air quality from Twitter communication using self-attention network and a multilayer classification model	2023	Environmental Science and Pollution Research	10.1007/s11356-022-22836-w	Article	YES	NO
34	Janardhanan, S.; Chandran, V.; Rajan, R.	On the design of a compact emergency mechanical ventilator with negative expiratory exit pressure for COVID-19 patients	2023	Journal of Medical Engineering and Technology	10.1080/03091902.2022.2099024	Article	YES	NO
35	Menon, V.G.; Adhikari, M.	Quantum computing in India: Recent developments and future	2023	IET Quantum Communication	10.1049/qtc2.12056	Article	YES	YES
36	Raghav, G.R.; Anoop, M.S.; Jayadevan, P.C.; Ashok Kumar, A.; Nagarajan, K.J.; Muthukrishnan, D.	Fabrication techniques for printed and wearable electronics	2023		10.1088/978-0-7503-5492-9ch5	Book chapter	YES	NO
37	Raaja, R.G.; Jawaharlal, N.K.; Ashok Kumar, A.; George, G.; Earnest, J.J.	Corrosion behaviour of additive manufactured materials and composites	2023		10.1201/9781003430186-9	Book chapter	YES	NO
38	Puthillath, B.	Self-awakening: An important life skill	2023			Book chapter	YES	NO
39	Santhosh, M.V.; Geethu, R.; Divya, R.; Ragesh, N.; John, S.	Carbon Nanomaterials for Energy Applications	2023			Book chapter	YES	NO
40	Paul, R.; Neeraj, M.; Yadukrishnan, P.S.	Li-Fi: A Novel Stand-In for Connectivity and Data Transmission in Toll System	2023	Lecture Notes on Data Engineering and Communications Technologies	10.1007/978-981-19-1844-5_20	Book chapter	YES	NO
41	Rajeev, R.; Sugathan, A.K.	Analysis of unstiffened and stiffened octagonal bolt extended end plate moment connection under thermal conditions: A Critical Review	2023	AIP Conference Proceedings	10.1063/5.0165737	Conference paper	YES	NO
42	Koshy, J.M.; Raj, A.	Strengthening of Corroded Beams Using Textile	2023	AIP Conference Proceedings	10.1063/5.0165230	Conference paper	YES	NO

		Reinforced Graphene Mortar: State of the art						
43	Jose, A.; Syriac, T.	A Critical Review on Numerical Investigation of Truss And Wall Concepts In Outrigger System	2023	AIP Conference Proceedings	10.1063/5.0165710	Conference paper	YES	NO
44	Appukuttan, S.K.; Raveendranath, R.	Fuzzy Z+ Transforms: An Overview And Applications In Nondestructive Testing	2023	AIP Conference Proceedings	10.1063/5.0165990	Conference paper	YES	NO
45	Shine, S.; Syriac, T.	A Critical Review on Structural Performance of Superframed Diagonally Linked Conjoined Structure	2023	AIP Conference Proceedings	10.1063/5.0165712	Conference paper	YES	NO
46	Ajay, A.; Mohan, N.	A Critical Review on Behaviour of C Section with Rivet Fastened RHFCB with Web Openings Subjected to WebCrippling	2023	AIP Conference Proceedings	10.1063/5.0165893	Conference paper	YES	NO
47	Raveendran, N.; Babu, G.R.	A Critical Review on Using Concrete Filled Steel Tubular Column with Artificial Damage Scenario	2023	AIP Conference Proceedings	10.1063/5.0165740	Conference paper	YES	NO
48	Dejo, D.A.	Effect of Diesel Contamination on Soil and its Remediation	2023	AIP Conference Proceedings	10.1063/5.0165346	Conference paper	YES	NO
49	Barwin, A.P.; Raj, A.	Effect of magnetized water on hybrid fibre concrete involving steel-polypropylene and steel-basalt: A Critical Review	2023	AIP Conference Proceedings	10.1063/5.0165229	Conference paper	YES	NO
50	Sankaramangalath, M.S.; Syriac, T.	A critical review on study of encased checkered steel plate and aramid fibre composite beams	2023	AIP Conference Proceedings	10.1063/5.0165713	Conference paper	YES	NO
51	Menon, R.; Nair, A.M.	Exposure Assessment of Fecal Contamination Using Sanipath Exposure Assessment Tool in Kerala, India	2023	AIP Conference Proceedings	10.1063/5.0165591	Conference paper	YES	NO
52	Manjaly, A.D.; Babu, G.R.	A critical review on behaviour of Cold Formed Steel encased Hot Rolled Steel sections	2023	AIP Conference Proceedings	10.1063/5.0165741	Conference paper	YES	NO

53	Jamal, M.L.P.; Mohan, N.	A Critical Review on RC Hollow Segmented Column for Bridge	2023	AIP Conference Proceedings	10.1063/5.0165892	Conference paper	YES	NO
54	Robert, S.; Mechery, J.V.; Luckins, N.; Menon, R.	Preliminary assessment and risk analysis of an uncontrolled open dumping site as a major source of heavy metal pollution to an urban water body	2023	AIP Conference Proceedings	10.1063/5.0165419	Conference paper	YES	NO
55	Nair, N.V.; Sreedharan, S.	Plant Microbial Fuel Cell for the Effective Utilization of Wastewater and Bioenergy Production	2023	AIP Conference Proceedings	10.1063/5.0165310	Conference paper	YES	NO
56	Benoy, N.M.; Anto, J.	A Critical Review on The Actions of Steel Fibre Reinforced Lightweight Aggregate Concrete with Graphene Oxide	2023	AIP Conference Proceedings	10.1063/5.0165725	Conference paper	YES	NO
57	Haridas, S.; Raj, A.	Retrofitting and Strengthening of Rcc Beams: A Critical Review	2023	AIP Conference Proceedings	10.1063/5.0165231	Conference paper	YES	NO
58	Raghavan, A.; Anto, J.	Enhancement of Performance of Coastal Structures Using Dredged Sand and Graphene Oxide-A Critical Review	2023	AIP Conference Proceedings	10.1063/5.0165729	Conference paper	YES	NO
59	Pinheiro, D.; Panakkal, S.M.; Joseph, B.; Gomez, N.J.	A Geometric Algebraic Study Approach On The Parallels Between Electromagnetism And Fluid Dynamics	2023	AIP Conference Proceedings	10.1063/5.0165747	Conference paper	YES	NO
60	Vijayan, R.; Benny, S.	A Critical Review on Seismic Performance of Diagrid, OGrid and Concentric Braced Moment Resistant Structures	2023	AIP Conference Proceedings	10.1063/5.0165721	Conference paper	YES	NO
61	Mohan, N.; Sreejith, S.S.; Mohanan, P.V.; Kurup, M.R.P.	Structural tuning effect to enhance the nonlinear optical response of salen type compounds	2023	AIP Conference Proceedings	10.1063/5.0160621	Conference paper	YES	NO
62	Asha, S.; Vinod, P.; Menon, V.G.	MMDFD- A Multimodal Custom Dataset for Deepfake	2023		10.1145/3607947.3608013	Conference paper	YES	NO

		Detection						
63	K.v, C.; King, D.G.R.G.	State-of-Art Techniques for effective Segmentation and Classification of Pancreatic Cancer Using Deep Learning: A Review	2023		10.1109/ICCEBS58601.2023.10449138	Conference paper	YES	NO
64	Murugan, K.; Mothi, R.; George, R.; Priya, R.E.; Nagarathinam, S.; Subramaniam, S.	Analysis of Visual Expression of Light and Color in Movies based on Wavelet Neural Network	2023		10.1109/ICCSAI59793.2023.10421049	Conference paper	YES	NO
65	Balakiruba, J.; Sukanya Singh, M.J.; Ramesh, S.M.; Kannan, T.; Thiliban, V.M.K.; Banu, S.M.	The Construction of Smart Tourism Based on Holographic Optics and AR Technology in the 5G Era: Computer World in Smart Tourism	2023		10.1109/ICCSAI59793.2023.10420887	Conference paper	YES	NO
66	Srutheeshna, U.; Ashraf, S.; Koshy, L.	Filtering of Spurious Sonar Signals	2023			Conference paper	YES	NO
67	Remya, R.; Jacob, A.; Subaida, E.A.	Rollover Stability Analysis of Trucks-Effect of Curve Geometry and Operating Speed	2023	Lecture Notes in Civil Engineering	10.1007/978-981-99-2556-8_10	Conference paper	YES	NO
68	Koshy, L.; Chithu, K.	Image Forgery Detection Using Deep Learning	2023	Lecture Notes in Networks and Systems	10.1007/978-981-99-0838-7_57	Conference paper	YES	NO
69	Divya, K.S.; Manish, T.I.	Deep learning architectures for Brain Tumor detection: A Survey	2023		10.1109/ACCTHPA57160.2023.10083385	Conference paper	YES	NO
70	Viswanath, A.; Chandran, V.; Janardhanan, S.	Optimization of a Hydro Kinetic Power Generator Using Genetic Algorithm	2023	Lecture Notes in Mechanical Engineering	10.1007/978-981-19-7055-9_8	Conference paper	YES	NO
71	Anandhi, V.; Vinod, P.; Menon, V.G.; Abhijith Krishna, E.R.; Shilesh, A.; Viswam, A.; Shafiq, A.	Malware Detection using Dynamic Analysis	2023		10.1109/AICAPS57044.2023.10074588	Conference paper	YES	NO
72	Raghav, G.R.; George, G.; Sujith, R.; Ashok, N.	A Review on Computational Techniques for Nanostructured Polymer Composite Materials	2023	Lecture Notes in Mechanical Engineering	10.1007/978-981-19-6032-1_6	Conference paper	YES	NO

73	Asok, N.; Joshy, S.; Suraj, R.; Viswanath, A.; Rakesh, A.	Optimization of Geometrical Parameters in Magnetorheological Dampers Using Finite Element Modeling	2023	Lecture Notes in Mechanical Engineering	10.1007/978-981-19-6032-1_19	Conference paper	YES	NO
74	Joshy, S.; Kumar, T.M.A.; Asok, N.; Suraj, R.; Joseph, K.P.	Optimisation of Parameters in Numerical Simulation of Hot Forging Using Taguchi Approach	2023	Lecture Notes in Mechanical Engineering	10.1007/978-981-19-6032-1_17	Conference paper	YES	NO
75	Chand, A.; Hareendran, H.; Bhasi, A.B.	Selecting the Optimum Tool for Driving Performance Evaluation by Assessing the Ergonomic Methods—An Overview	2023	Lecture Notes in Mechanical Engineering	10.1007/978-981-19-6032-1_18	Conference paper	YES	NO
76	Chandran, V.; Rajendran, P.; Gopakumar, S.; Kumar, K.S.A.; Nikhilraj, C.A.; Janardhanan, S.	Aerodynamic Analysis of Deployable Wing Arrangement for Space Shuttle	2023	Lecture Notes in Mechanical Engineering	10.1007/978-981-19-6032-1_27	Conference paper	YES	NO
77	Niveditha, P.S.; John, S.P.; Simpson, S.V.	Review on Edge Computing-assisted d2d Networks	2023	Lecture Notes in Networks and Systems	10.1007/978-981-19-2821-5_4	Conference paper	YES	NO
78	John, S.P.; Simpson, S.V.; Niveditha, P.S.	Secure Environment Establishment for Multipath Routing	2023	Lecture Notes in Networks and Systems	10.1007/978-981-19-2821-5_2	Conference paper	YES	NO
79	Manoj Kumar, B.	Reverse logistic network design for quality reclaimed rubber	2023	Materials Today: Proceedings	10.1016/j.matpr.2022.08.207	Conference paper	YES	NO
80	Raj, A.; Menon, R.; Remya, R.; Geethu, R.	Proceedings of International Conference on Innovations in Civil Engineering-ICICE 2022	2023	AIP Conference Proceedings		Editorial	YES	NO
81	Mumtaz, S.; Ashraf, M.I.; Menon, V.G.; Abbas, T.; Al-Dulaimi, A.	Guest Editorial Special Issue on Intelligent Autonomous Transportation Systems With 6G - Part IV	2023	IEEE Transactions on Intelligent Transportation Systems	10.1109/TITS.2023.3288978	Editorial	YES	YES
82	Qureshi, N.M.F.; Menon, V.G.; Bashir, A.K.; Mumtaz, S.; Mehmood, I.	Role of deep learning models and analytics in industrial multimedia environment	2023	Multimedia Systems	10.1007/s00530-023-01098-7	Editorial	YES	YES
83	Menon, V.G.; Adhikari, M.; Hemanth, J.; Rawat, D.B.	Guest Editorial Advanced Wearable Sensors for Smart Monitoring and Disease Prediction	2023	IEEE Journal of Biomedical and Health Informatics	10.1109/JBHI.2023.3265410	Editorial	YES	YES

84	Ashraf, M.I.; Guizani, M.; Menon, V.G.; Mumtaz, S.	Series Editorial: Ultra-Low-Latency and Reliable Communications for Future Wireless Networks	2023	IEEE Communications Standards Magazine	10.1109/MCOMSTD.2023.10078091	Editorial	YES	NO
85	Mumtaz, S.; Ashraf, M.I.; Menon, V.G.; Abbas, T.; Al-Dulaimi, A.	Guest Editorial Intelligent Autonomous Transportation System With 6G - Series - Part III	2023	IEEE Transactions on Intelligent Transportation Systems	10.1109/TITS.2023.3239759	Editorial	YES	YES
86	Vučinić, D.; Chandran, V.	Preface I	2023	Lecture Notes in Mechanical Engineering		Editorial	YES	NO