

List of Publications (Scopus indexed)

2024

Sl. No.	Authors	Title	Year	Source title	DOI	Document Type	SCOPUS Indexed	WoS Indexed
1	Mary Catherine, V.G.; Pavithran.A.P, B.; Sharon, A.; Antony, A.; Viswanathan, D.M.	Fabrication of PDMS based flexible capacitive tactile sensor array with inkjet printed silver electrodes for robotic object grasp control	2024	Engineering Research Express	10.1088/2631-8695/ad9986	Article	YES	YES
2	V.U., V.U.; T.i, M.; Manesh, M.	An integrative analysis to identify pancancer epigenetic biomarkers	2024	Computational Biology and Chemistry	10.1016/j.compbiolchem.2024.108260	Article	YES	YES
3	Wang, S.; Lian, B.; Liu, M.; Zhang, J.; Menon, V.G.; Li, X.	Covert performance analysis of integrated RIS and backscatter NOMA communication networks	2024	Physical Communication	10.1016/j.phycom.2024.102523	Article	YES	YES
4	Suresh, L.K.; Maniyampara, P.K.; Mohan, N.; Simi, M.; Gopal, K.; Kurup, M.R.P.; Santhy, A.	Pyrazolyl-derived zinc(II) and cadmium(II) complexes: Synthesis, spectral characterization, single crystal insights, Hirshfeld surface analysis, and in silico DNA interaction studies	2024	Inorganic Chemistry Communications	10.1016/j.inoche.2024.112811	Article	YES	YES
5	A, A.K.; T, P.; Vinod, V.; R, M.; Sajeesh, P.	Design and analysis of a novel prosthetic limb for lower knee amputee	2024	Research on Biomedical Engineering	10.1007/s42600-024-00365-4	Article	YES	NO
6	Cherian, A.; Vaidhehi, M.; Arshey, M.; Briskilal, J.; Simpson, S.V.	Generative adversarial networks with stochastic gradient descent with momentum algorithm for video-based facial expression	2024	International Journal of Information Technology (Singapore)	10.1007/s41870-024-02043-1	Article	YES	NO
7	Priya, L.; Siddik A, M.; Varghese, G.K.	Source Apportionment and Pollution Assessment of Heavy Metals in an Urban Waterbody	2024	Chemical Engineering and Technology	10.1002/ceat.202300408	Article	YES	YES

8	Asha, S.; Vinod, P.; Amerini, I.; Menon, V.G.	D-Fence layer: an ensemble framework for comprehensive deepfake detection	2024	Multimedia Tools and Applications	10.1007/s11042-024-18130-1	Article	YES	YES
9	Philip, A.O.; Sreeja, S.; Paul, R.; Saravanaguru, R.A.K.	Towards intelligent trust-based incident and evidence management models for Internet of Vehicles: A survey	2024	Computers and Electrical Engineering	10.1016/j.compeleceng.2024.109284	Article	YES	YES
10	Aravindakshan, A.A.; Mohan, N.; Kurup, M.R.P.; Erkan, S.; Kaya, S.; Manoj, E.	Mononuclear and binuclear dioxidomolybdenum(VI) chelates derived from a tridentate ONO donor aroylhydrazone: Spectral, structural, DFT and in silico biological investigations	2024	Polyhedron	10.1016/j.poly.2024.116998	Article	YES	YES
11	Mittal, H.; Tripathi, A.K.; Pandey, A.C.; Venu, P.; Menon, V.G.; Pal, R.	A novel fuzzy clustering-based method for human activity recognition in cloud-based industrial IoT environment	2024	Wireless Networks	10.1007/s11276-022-03011-y	Article	YES	YES
12	Dhanesh, S.; Kumar K, S.; Tamil Selvam, P.; Raghav, G.R.	Experimental investigation in enhancing the mechanical, wear and corrosion resistance properties of Al6061-SiC-NSA composites fabricated using stir casting process	2024	Materials Research Express	10.1088/2053-1591/ad549d	Article	YES	YES
13	Jyothish, A.; Mathew, A.; Vinod, P.	Effectiveness of machine learning based android malware detectors against adversarial attacks	2024	Cluster Computing	10.1007/s10586-023-04086-8	Article	YES	YES
14	Joseph, E.J.; Muthukrishnan, D.; Raghav, G.R.; Nagarajan, K.J.; Ashok Kumar, A.	Optimization of Multiresponse Process Parameters in Friction Stir Processing of AA6063/n-Graphene Composites by Taguchi's Grey Relational Analysis	2024	Metallofizika i Noveishie Tekhnologii	10.15407/mfint.46.05.0453	Article	YES	NO
15	Priya, L.; Varghese, G.K.	'Remediability Score' as a tool for selecting the most suitable remediation	2024	Environmental Science and Pollution Research	10.1007/s11356-023-31687-y	Article	YES	NO

		technology for contaminated sites						
16	Asha, S.; Vinod, P.; Menon, V.G.	A defensive attention mechanism to detect deepfake content across multiple modalities	2024	Multimedia Systems	10.1007/s00530-023-01248-x	Article	YES	YES
17	Mohan, N.; Sreejith, S.S.; Kurup, M.R.P.	A novel Salen-based dual channel sensor for easy and selective nanomolar detection of l-cysteine	2024	New Journal of Chemistry	10.1039/d3nj05504c	Article	YES	YES
18	Sreeja, K.A.; Pradeep, A.; Arshey, M.; Warriar, G.S.; Ragesh, K.T.	Implementing Innovative Weed Detection Techniques for Environmental Sustainability	2024	Journal of Environmental Nanotechnology	10.13074/jent.2024.12.243947	Article	YES	NO
19	Bansal, K.; Tripathi, A.K.; Menon, V.G.; Balasubramanian, V.	A Federated Generative Adversarial Network with SSIM-PSNR-Based Weight Aggregation for Consumer Electronics Waste	2024	IEEE Transactions on Consumer Electronics	10.1109/TCE.2024.3411785	Article	YES	YES
20	Jaiswal, A.; Shivateja, S.; Hazra, A.; Mazumdar, N.; Singh, J.; Menon, V.G.	UAV-Enabled Mobile RAN and RF-Energy Transfer Protocol for Enabling Sustainable IoT in Energy-Constrained Networks	2024	IEEE Transactions on Green Communications and Networking	10.1109/TGCN.2024.3403662	Article	YES	YES
21	Ashok Kumar, A.; Raghav, G.R.; Nagarajan, K.J.; Rengarajan, S.; Mohan, M.	The influence of tool shoulder size and plate position on the characteristics of friction stir welded different aluminum alloys	2024	Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an	10.1080/02533839.2024.2346500	Article	YES	YES
22	Arora, T.; Balasubramanian, V.; Stranieri, A.; Menon, V.G.	Modified Early Warning Score (MEWS) Visualization and Pattern Matching Imputation in Remote Patient Monitoring	2024	IEEE Access	10.1109/ACCESS.2024.3396274	Article	YES	YES

23	Gopinath, S.; Muthiah, M.; Raghav, G.R.	Experimentation and characterization of stir casted bio mesquite wood ash (M.W.A.) reinforced aluminium (Al6061 T6) matrix hybrid composites	2024	Advances in Materials and Processing Technologies	10.1080/2374068X.2023.2220240	Article	YES	YES
24	Bherwani, H.; Banerji, T.; Menon, R.	Role and value of urban forests in carbon sequestration: review and assessment in Indian context	2024	Environment, Development and Sustainability	10.1007/s10668-022-02725-5	Article	YES	YES
25	D'Cotha, J.S.; Sajeesh, P.; Suresh, P.R.; Jithu, J.	Inherent configuration characteristics altering the distillate enhancement of passive stepped solar still: A review	2024	Journal of King Saud University - Engineering Sciences	10.1016/j.jksues.2021.10.001	Review	YES	YES
26	Kennedy, S.M.; Raghav, G.R.; Robert, R.B.; Manikandaraja, G.; Selvakumar, M.	PEEK-based 3D printing: a paradigm shift in implant revolution for healthcare	2024	Polymer-Plastics Technology and Materials	10.1080/25740881.2024.2302537	Review	YES	YES
27	Geethu, R.; Nair, A.; Santhosh, M.V.	Inorganic nanomaterials in Organic Solar Cells: A renewable energy application	2024			Book chapter	YES	NO
28	Krishna, N.; Raju, K.M.; Dankan Gowda, V.D.; Arun, G.; Suneetha, S.	Homomorphic encryption and machine learning in the encrypted domain	2024		10.4018/9798369316429.ch010	Book chapter	YES	NO
29	Meera, V.M.; Arjun, K.P.	Challenges in Ensuring Security for Smart Energy Management Systems Based on CPS	2024		10.1002/9781394173006.ch7	Book chapter	YES	NO
30	Santhosh, M.V.; Geethu, R.; Nair, A.	Nanotechnology for Quaternary Cu ₂ ZnSnS ₄ (CZTS) Solar Cells	2024		10.1201/9781003515845	Book chapter	YES	NO
31	Raghav, G.R.; Moolayadukkam, S.; Thomas, N.R.; George, G.	Two-Dimensional Nanomaterials-Based Polymer Nanocomposites for Gas and Volatile Organic Compound Sensing	2024			Book chapter	YES	NO
32	Rupesh, S.; Deepanraj, B.; Rag, R.L.	Valorization of lignocellulosic biomass through biorefinery	2024		10.1016/B978-0-443-19171-8.00015-8	Book chapter	YES	NO

		concepts						
33	Jaison, T.J.; Thambi, P.E.; Pinheiro, N.	Brain-Powered Vehicles for Individuals with Disabilities Leveraging AI	2024		10.1109/ICTACS62700.2024.10841153	Conference paper	YES	NO
34	Koshy, L.; Vaishnav, M.V.; Sunil, S.; Abraham, S.V.; Vidhyadharan, S.	A Thermal Image-based Fault Detection System for Solar Panels	2024		10.1109/CYBERCOM63683.2024.10803145	Conference paper	YES	NO
35	Koshy, L.; Benny, A.	Dental Cavity Detection Using U-NetArchitecture	2024		10.1109/ICSES63445.2024.10763330	Conference paper	YES	NO
36	Mannickathan, G.P.; Manish, T.I.	Advancements in Crowd Analysis: Datasets and Deep Learning Approaches for Enhanced Surveillance and Management	2024		10.1109/AIC61668.2024.10730844	Conference paper	YES	NO
37	Abraham, T.S.; Anjali, K.; Aji, A.; Saju, A.K.; Krishnapriya, M.J.	Enhanced Pest Detection in Agriculture using Advanced Feature Extraction and Classification Models	2024		10.1109/I-SMAC61858.2024.10714747	Conference paper	YES	NO
38	Paul, R.; Sajeer, R.; Vaishnav, M.V.; Abraham, S.V.; Sahajan, S.	A Real Time Prediction Model for Round Winners of Counter Strike:Global Offensive	2024		10.1109/ICSADL61749.2024.00035	Conference paper	YES	NO
39	Pai, R.R.	Resilient Response of Mechanical Cement-Stabilized Laterite Gravel	2024	Lecture Notes in Civil Engineering	10.1007/978-981-97-3389-7_32	Conference paper	YES	NO
40	Joshya, M.C.; Jyothiss, C.; Jacob, J.C.; Jayadevan, P.C.	LOW REYNOLDS NUMBER FLOW THROUGH MICROCHANNELS	2024	Proceedings of the Thermal and Fluids Engineering Summer Conference	10.1615/TFEC2024.nmf.050498	Conference paper	YES	NO
41	Dankan Gowda, V.D.; Surya, S.G.; Kumar, N.M.G.; Prasad, K.D.V.; Satya Prasad, V.K.; Kaur, M.	Optimizing Renewable Energy Integration in Smart Grids through IoT-Driven Management Systems	2024		10.1109/InCACCT61598.2024.10551160	Conference paper	YES	NO
42	Cherian, A.; Vaidhehi, M.; Arshey, M.; Simpson, S.V.; Briskilal, J.; Singh, A.	An IoT-based Deep Belief Network in Intrusion Detection System using	2024		10.1109/ICCSP60870.2024.10543781	Conference paper	YES	NO

		Butterfly Optimization						
43	Varghese, M.; Amalpriya, A.H.	Spatial Analysis and Comparative Study of Noise Pollution at Ernakulam City Before and During COVID-19 Using GIS	2024	Lecture Notes in Civil Engineering	10.1007/978-3-031-39663-2_67	Conference paper	YES	NO
44	Mumtaz, S.; Ashraf, M.I.; Menon, V.G.; Abbas, T.; Al-Dulaimi, A.	Guest Editorial: Intelligent Autonomous Transportation System With 6G-Series - Part V	2024	IEEE Transactions on Intelligent Transportation Systems	10.1109/TITS.2024.3369268	Editorial	YES	YES