



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PUBLICATIONS CONSOLIDATED COUNT

Year	SCI	WoS	Scopus	Google Scholar	Total
2023-24	27	0	12	0	39
2022-23	46	0	0	0	46
2021-22	34	0	5	2	41
2020-21	20	75	23	2	120
2019-20	14	108	45	1	168
2018-19	7	30	44	1	82
Total	142	213	125	6	486



ACADEMIC YEAR 2023 – 2024

S.No	JOURNAL (APA style)	Citations
1	George, S., Vijayakumar, N., Jeyakumar, P., & Masilamani, A. (2023). Spilt ring resonator-based THz massive MIMO antenna array modelling for future wireless network. <i>Applied Physics A: Materials Science and Processing</i> , 129(9). https://doi.org/10.1007/s00339-023-06880-y	1
2	Hemalatha, B., Bhuvaneswari, P., Nataraj, M., & Shanmugavadivel, G. (2023). Human Dental Age and Gender Assessment from Dental Radiographs Using Deep Convolutional Neural Network. <i>Information Technology and Control</i> , 52(2), 322–335. https://doi.org/10.5755/j01.itc.52.2.32796	1
3	Jeyakumar, P., Vishwa, S., Prakash, V., Dinesh, P., Rajesh Ram, P., & Muthuchidambaranathan, P. (2023). Long-short term memory based wideband beam tracking scheme for massive mimo systems. <i>Wireless Networks</i> , 0123456789. https://doi.org/10.1007/s11276-023-03460-z	4
4	Kanna, R. R., Jeyakumar, P., Lenin, N., G. Marimuthu, Kesavan, M. P., & Kumar, T. V. (2023). Synthesis and investigation of Sm ³⁺ -doped Mn _{0.5} Cu _{0.5} Fe ₂ O ₄ nanoferrites for microstrip patch antenna application. <i>Journal of Materials Science: Materials in Electronics</i> , 34(18). https://doi.org/10.1007/s10854-023-10815-x	1
5	Karthikeyan, K., Kandasamy, S. K., Saravanan, P., & Alodhayb, A. (2023). Numerical simulation and parameter optimization of micromixer device using fuzzy logic technique. <i>RSC Advances</i> , 13(7), 4504–4522. https://doi.org/10.1039/d2ra07992e	4
6	Meivel, S., Elakkiya, S., Kartheeswari, V., & Preethika, K. V. (2023). Wireless Underground Soil Networks-Based Multiparameter Monitoring System for Mining Areas. <i>Lecture Notes in Networks and Systems</i> , 383, 329–341. https://doi.org/10.1007/978-981-19-4960-9_26	4
7	Meivel, S., Maheswari, S., & Banu, D. F. (2023). Design and Development of Human Temperature Measuring System Using Drone Based Multispectral and Thermal Images. <i>Lecture Notes in Civil Engineering</i> , 304, 67–85. https://doi.org/10.1007/978-3-031-19309-5_6	2
8	Meivel, S., Maheswari, S., & Faridha Banu, D. (2022). Design and Method of an Agricultural Drone System Using Biomass Vegetation Indices and Multispectral Images. In <i>Springer Proceedings in Mathematics and Statistics</i> (Vol. 404). https://doi.org/10.1007/978-3-031-19309-5_25	2
9	Naga Raju, K., & Kavitha, A. (2023). Linear phased meta-material incorporated patch antenna array at sub-6 GHz for 5G base stations. <i>International Journal of Electronics</i> , 00(00), 1–26. https://doi.org/10.1080/00207217.2023.2248570	1
10	Nandagopal, C., Siva Kumar, P., Rajalakshmi, R., & Anandamurugan, S. (2023). Mobility Aware Zone-Based Routing in Vehicle Ad hoc Networks Using Hybrid Metaheuristic Algorithm. <i>Intelligent Automation and Soft Computing</i> , 36(1), 113–126. https://doi.org/10.32604/iasc.2023.031103	1
11	Nirmala, V., & Gomathy, B. (2023). Hybrid Deep Learning Method for Diagnosis of Cucurbita Leaf Diseases. <i>Computer Systems Science and</i>	1



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12	Raju, K. N., Kavitha, A., & Sekhar, K. C. (2023). Design and performance analysis of miniaturized dual-band micro-strip antenna loaded with double negative meta-materials. <i>Microsystem Technologies</i> , 29(7), 1029–1038. https://doi.org/10.1007/s00542-023-05494-x	2
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16	Subramani, J., Maria, A., Rajasekaran, A. S., Al-Turjman, F., & Gopal, M. (2023). Blockchain-Based Physically Secure and Privacy-Aware Anonymous Authentication Scheme for Fog-Based Vanets. <i>IEEE Access</i> , 11(October 2022), 17138–17150. https://doi.org/10.1109/ACCESS.2022.3230448	4
17	Sundarraaj, S., Reddy, R. V. K., Basam, M. B., Lokesh, G. H., Flammini, F., & Natarajan, R. (2023). Route Planning for an Autonomous Robotic Vehicle Employing a Weight-Controlled Particle Swarm-Optimized Dijkstra Algorithm. <i>IEEE Access</i> , 11, 92433–92442. https://doi.org/10.1109/ACCESS.2023.3302698	2
18	Suriyan, K., Vennila, C., Sentamilselvi, M., Adhikary, P., Karpooora Sundari, K., Madhu, M. C., Madhusudhana, C. S., & Badari Narayana, K. (2023). A novel reconfigurable hybrid DC-AC home technique with renewable energy resources and converters. <i>International Journal of Sustainable Engineering</i> , 16(1), 285–301. https://doi.org/10.1080/19397038.2023.2205872	1
19	Chandra Sekhararao Kaitepalli, Arunacahalam Kavitha, A 28/32/38 GHz Circularly Polarized Dra Microstrip Antenna for 5G mm-wave Applications, <i>comptes rendus de l academie bulgare des sciences</i> , 2023 https://doi.org/10.7546/CRABS.2023.08.12	1
20	M. Kumar, and A. Kavitha, "Deep-MAD: Deep learning based multiple attack detection for secure device- to-device communication in FOG environment", <i>Journal of Intelligent & Fuzzy Systems</i> , 2023, https://doi.org/10.3233/JIFS-235362 ,	2
21	VishnuVardhan Rao Gadipudi, A. Kavitha, "Design and Analysis of Static Random-Access Memory FinFET Circuit Using Self Controlled Voltage Level Controller", <i>"Journal of Nanoelectronics and Optoelectronics"</i> 2023, https://doi.org/10.1166/jno.2023.3470	1
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25	Dhanasekaran S, Silambarasan, vivek karthik,Sudhakar K, Enhancing pancreatic cancer classification through dynamic weighted ensemble: a game theory approach, " <i>Computer Methods in Biomechanics and Biomedical Engineering</i> ", 2023, 14768259, https://doi.org/10.1080/10255842.2023.2281277	1
26	Azees Maria, Amer Aljaedi, Arun Sekar Rajasekaran, Zaid Bassfar and Sajjad Shaukat Jamal, Blockchain-Enabled Secure Data Collection Scheme for Fog-Based WBAN, <i>IEEE Access</i> , 2024, 17, https://doi.org/10.1109/ACCESS.2024.3351844	1
27	Azees Maria, Arun Sekar Rajasekaran and Jaime Lloret, Physically secure and privacy-preserving blockchain enabled authentication scheme for internet of drones, <i>Security and Privacy</i> , 2024, 1-17, https://doi.org/10.1002/spy2.364	1
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29	E. Ahilandeswari , K. Sakthipandi , R. Rajesh Kanna , G. Rajkumar , B. Ganesh Babu, S. Arunmetha, Aslam Hossain , P. Sakthivel, V. Rajendran, M. Srinidhi Raghavan, Exploring the electromagnetic shielding behavior of lanthanum doped calcium nanoferrites, <i>Journal of Rare Earths</i> , 2023, 2509-4963, https://doi.org/10.1016/j.jre.2023.11.002 .	2
30	T. Yamunarani; Sharveswary; Asmarashid Bin Ponniran; Wam Suhaimizan Bin Wan Zaki; Riyaz Ahmad, EEG – Based Bipolar Disorder Deduction Using Machine Learning, First International Conference on Advances in Electrical, Electronics and Computational Intelligence (ICAEECI) 2023, DOI: 10.1109/ICAEECI58247.2023.10370962	1
31	Sakthi P; Kiruthika S, Photocatalytic Activity of Sonochemically Synthesized GO-Ag Nanocomposite, International Conference on Energy, Materials and Communication Engineering (ICEMCE) 2023, DOI: 10.1109/ICEMCE57940.2023.10433955	0
32	Ch. Gangadhar, Varsha D. Jadhav, Rajyalakshmi Uppada, Radhamani V, T. Vignesh, L. Ramesh, Machine learning and IoT Based Robotic Solution for Home Wrist Rehabilitation through Motion Capture Enabled Architecture, <i>Journal of Electrical Systems</i> , Vol. 20 No. 2s (2024), DOI: https://doi.org/10.52783/jes.1683	1
33	D. Zamrooth, M. Durairasan, Surinderpal Singh, V. Mariselvam, S.	



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	Navaneethan, Fabrication of nanoarchitectures for next-generation supercapacitors: interconnected Zn ₂ SnO ₄ and 2D rGO for enhanced energy storage performance, Journal of Materials Science: Materials in Electronics, 35(17), 2024, DOI:10.1007/s10854-024-12950-5	
34	Kalaichelvi, K, Sundaram, M, Sanmugavalli, P, Spin orbit magnetic random access memory based binary CNN in-memory accelerator (BIMA) with sense amplifier, Journal of Intelligent & Fuzzy Systems, vol. 46, no. 1, pp. 137-148, 2024, DOI: 10.3233/JIFS-223898	0
35	B. Rubini; G Kalaiarasi; S. Vasuki; S. Pradeep Kumar; Suganiya Murugan; C. Arul Stephen, On-site Testing and Preventive Maintenance for a Fire Automation System Employing PSO, FA and ANN Algorithms, International Conference on Emerging Research in Computational Science (ICERCS), 2023, DOI: 10.1109/ICERCS57948.2023.10434115	0
36	K. Ambujam , A. Sridevi , S. Meivel , T. R. Chinnusamy, Studies on electrochemical properties of ZnO/CuMn ₂ O ₄ NCs as electrode material for supercapacitor application, Journal of Materials Science: Materials in Electronics, 2024, DOI:10.1007/s10854-024-12228-w	1
37	Jitendrasinh Jamadar, Ramesh Babu Pittala, G. Silpa, P. Arunkumar, Anzar Ahmad, G. N. R. Prasad, GRU-RNN Model to Analyze and Predict the Inflation by Consumer Price Index, Journal of Electrical Systems, Vol. 20 No. 6s (2024), DOI: https://doi.org/10.52783/jes.3306 .	0
38	Manivannan R, Senthil kumar S and Senthil Kumar T, Improved restricted Boltzmann machine-based optimization model for the network security system in cloud environment, Eng. Res. Express 6 025313 DOI 10.1088/2631-8695/ad3f77	0
39	M. Nuthal Srinivasan, M. Chinnadurai , S. Senthilkumar, E. Dinesh, An effective video inpainting technique using morphological Haar wavelet transform with krill herd based criminisi algorithm, Scientific Reports (2024) 14:15485, https://doi.org/10.1038/s41598-024-66496-x	0

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1	Ahilandeswari, E., Sakthipandi, K., Rajesh Kanna, R., Hubálovská, M., & Vigneswaran, D. (2022). Lanthanum substitution effect on the structural, optical, and dielectrical properties of nanocrystalline BaFe ₂ O ₄ ferrites. <i>Physica B: Condensed Matter</i> , 635(December 2021). https://doi.org/10.1016/j.physb.2022.413849	5
2	Asaithambi, S., Ravi, L., Kotb, H., Milyani, A. H., & Azhari, A. A. (2022). Defined Network for the Industrial Internet of Things. <i>Sensors</i> , 22.	3
3	Ashokkumar, N., Kavitha, A., Devi, S., & Venkataramana, P. (2022). Wireless Sensor Data Fusion Techniques in Estimating Temporal Resource Attributes in Scenarios of	6



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	Intermittent Connectivity. <i>El-Cezeri Journal of Science and Engineering</i> , 9(2), 413–423. https://doi.org/10.31202/ecjse.948125	
4	Balashanmugam, T., Baladhandapani, A. D., Selvakumaran, P. R., Ramachandran, D., Muthuvel, S. K., Sivaraj, P., & Mamo, S. A. (2022). Effect of Substrate Material on the Electromagnetic Properties of the Photolithography Printed Antenna. <i>Advances in Materials Science and Engineering</i> , 2022. https://doi.org/10.1155/2022/7489680	0
5	Baskar, S., Dhote, S., Dhote, T., Akila, D., & Arunprathap, S. (2022). Surge detection for smart grid power distribution using a regression-based signal processing model. <i>Computers and Electrical Engineering</i> , 104(PA), 108424. https://doi.org/10.1016/j.compeleceng.2022.108424	0
6	Faridha Banu, D., Sindhwani, N., Sasi, G., Kaleel Rahuman, A., & Meivel, S. (2022). Fuzzy acceptance Analysis of Impact of Glaucoma and Diabetic Retinopathy using Confusion Matrix. <i>2022 10th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2022</i> , 1–5. https://doi.org/10.1109/ICRITO56286.2022.9964858	1
7	George, S., Nandalal, V., Jeyakumar, P., & Babu, S. V. (2022). Implementation of FSS substrate on microstrip patch antenna for terahertz communication. <i>Journal of Optoelectronics and Advanced Materials</i> , 24(7–8), 338–346.	6
8	Jai Ganesh, R., Alagarsamy, M., Gabriel Santhosh Kumar, G., Tamilnesan, P., Kaarthik, K., & Yimer, J. M. (2022). Aquatic Emission and Properties Analysis for Wind Turbine Blades. <i>Advances in Materials Science and Engineering</i> , 2022. https://doi.org/10.1155/2022/5746688	2
9	Jeyakumar, P., Malar, E., Srinitha, S., Muthuchidambaranathan, P., & Ramesh, A. (2022). Hybrid Beamforming in Large-scale Antenna Array for 5G Indoor Communication Network Deployments. <i>Wireless Personal Communications</i> , 126(3), 2513–2532. https://doi.org/10.1007/s11277-022-09808-6	4
10	Jeyakumar, P., Ramesh, A., Srinitha, S., Nishant, V. T., Gowri, P., & Muthuchidambaranathan, P. (2022). Two-stage deep learning-based hybrid precoder design for very large scale massive MIMO systems. <i>Physical Communication</i> , 54, 101835. https://doi.org/10.1016/j.phycom.2022.101835	5
11	Jeyalakshmi, C., Alagarsamy, M., Kalaiarasan, R., Easwaran, M., Thangavel, Y., & Paramasivam, P. (2022). Plastic Waste Management System Using Metal Shredder for Clean Environment. <i>Advances in Materials Science and Engineering</i> , 2022. https://doi.org/10.1155/2022/1598868	5
12	Kaliappan, S., Karthick, M., Patil, P. P., Madhu, P., Sekar, S., Mani, R., Kalavathi, D. F., Mohanraj, S., & Jida, S. N. (2022). Utilization of Eco-Friendly Waste Eggshell Catalysts for Enhancing Liquid Product Yields through Pyrolysis of Forestry Residues. <i>Journal of</i>	4



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14	Kandasamy, S. K., Maheswaran, S., Kavitha, K. R., Karthikeyan, D., Indra, J., Sheikdavood, K., Syamala, Y., Srilakshmi, K., Arumugam, C., & Balamoorthy, D. (2022). High-Performance Graphene Oxide/Polypyrrole/ Ziziphus jujuba / Prunus dulcis Ternary Composite Electrodes for Supercapacitor for Sensor Applications. <i>Journal of Nanomaterials</i> , 2022. https://doi.org/10.1155/2022/9201910	4
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16	Karthick, L., Rathinam, R., Kalam, S. A., Loganathan, G. B., Sabeenian, R. S., Joshi, S. K., Ramesh, L., Ali, H. M., & Mammo, W. D. (2022). Influence of Nano-/Microfiller Addition on Mechanical and Morphological Performance of Kenaf/Glass Fibre-Reinforced Hybrid Composites. <i>Journal of Nanomaterials</i> , 2022. https://doi.org/10.1155/2022/9778224	2
17	Kiruthiga, G., Rajni, K. S., Geethanjali, N., Raguram, T., Nandhakumar, E., & Senthilkumar, N. (2022). SnO ₂ : Investigation of optical, structural, and electrical properties of transparent conductive oxide thin films prepared by nebulized spray pyrolysis for photovoltaic applications. <i>Inorganic Chemistry Communications</i> , 145. https://doi.org/10.1016/j.inoche.2022.109968	0
18	Kumareshan, N., Umashankar, A., Verma, M., Gnanasaravanan, S., Kumaran, G., Vimalnath, S., Vignesh, N. A., & Santhosh, A. J. (2022). Truncation Multiplier-Based Cognitive Radio Spectrum Analyzer for Nanomedical Applications. <i>Journal of Nanomaterials</i> , 2022. https://doi.org/10.1155/2022/4766366	1
19	Lakshmanan, R. (2022). An investigation on changing of chemical and physical properties of soil in iron mines area of India. <i>Neuro Quantology</i> , 20(August), 931–937. https://doi.org/10.14704/nq.2022.20.7.NQ33118	2
20	Marimuthu, C. (2022). <i>SYNTHESIS OF CERIUM OXIDE NANOPARTICLES AND THEIR SURFACE</i> . December. https://doi.org/10.5281/zenodo.7236067	1



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22	Meivel, S., Maheswari, S., & Faridha Banu, D. (2022). Design and Method of an Agricultural Drone System Using Biomass Vegetation Indices and Multispectral Images. In <i>Springer Proceedings in Mathematics and Statistics</i> (Vol. 404). https://doi.org/10.1007/978-3-031-19309-5_25	5
23	Mohanraj, P., & Selvakumaran, P. R. (2022). Compact wideband implantable antenna for biomedical applications. <i>Current Applied Physics</i> , 43(August), 50–56. https://doi.org/10.1016/j.cap.2022.08.007	6
24	Muneeswaran, D., Subramani, J., Pandi, T., Chenniappan, N., & Shanmugam, M. (2022). Modelling of Different on-Chip Inductors for Radio Frequency Integrated Circuits. <i>Comptes Rendus de L'Academie Bulgare Des Sciences</i> , 75(10), 1491–1498. https://doi.org/10.7546/CRABS.2022.10.12	5
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29	Rajkumar, M., Bhukya, S. N., Ahalya, N., Elumalai, G., Sivanandam, K., Almutairi, K. M. A., Alonazi, W. B., Soma, S. R., & Urugo, M. M. (2022). Impact of ANN in Revealing of Viral Peptides. <i>BioMed Research International</i> , 2022. https://doi.org/10.1155/2022/7760734	0
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32	Sangeetha, M., Senthil, T. S., Senthilkumar, N., & Kang, M. (2022). Solar-light-induced photocatalyst based on Bi–B co-doped TiO ₂ prepared via co-precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , 33(20), 16550–16563. https://doi.org/10.1007/s10854-022-08547-5	4
33	Veeramalai, G., Hemalatha, V., Angayarkanni, M., Raguraman, B., & College, M. K. (2022). Learning Can Use Mathematical Concepts Effectively in the Future for Structural Transformation. <i>International Journal of Early Childhood Special Education</i> , 14(04), 1934–1936. https://doi.org/10.9756/INTJECSE/V14I4.248	1
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