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(Autonomous)

Department of Electrical and Electronics Engineering

Journal Paper Publications Details

Sl. No	Title of the Paper	Name of the Author/s	Name of the Journal	Vol No, Issue No & pp	Year and Month of Publication	Category Q1/Q2/Q3/Q4	UGC Care list/Scopus/SCI/other
2024-2025							
1	Performance analysis of photovoltaic module using eutectic phase change material	Lalitha, B., Lakshmi, K., Karthick, A., & Manoj Kumar, P	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	Vol.46, no. 1, pp. 14423–14435. https://doi.org/10.1080/15567036.2024.2417773	October 2024	Q2	SCI IF:2.3
2	A high gain quasi Z-source based full-bridge isolated DC-DC converter with extendable structure for grid-tied/standalone PV system	Kanagaraj Nallaiya Gounder, Ramasamy Murugesan, Vijayakumar Madhaiyan, Obaid Aldosari	IET Power Electronics	Vo.17,pp. 2134-2149 https://doi.org/10.1049/pel2.12779	September 2024	Q2	SCI IF:1.7
3	Fabrication and characterization of PVA-based biocomposite EMI shielding material for low power loss wireless charging applications	Shanmugapriya, M., Mayurappriyan, P.S. & Lakshmi, K.	Biomass Conversion and Biorefinery	Vol.15, 13871–13880 (2025). https://doi.org/10.1007/s13399-024-06081-4	September 2024	Q2	SCI IF: 4.1
4	Active power regulation in low voltage grid-tied inverters for rooftop solar PV systems: Progress and future directions	J, Ganesh Moorthy, Jerome Moses M, and Kalaiselvan N	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	Vol. 46, no.1, pp. 81–104. https://doi.org/10.1080/15567036.2024.2392891	September 2024	Q2	SCI IF:2.3

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5	Improving Quality of Service (QoS) in Wireless Multimedia Sensor Networks using Epsilon Greedy Strategy	Senthil Kumar S, Nada Alzaben, Sridevi A, Ranjith V	Measurement Science Review	Vol. 24, No. 3, pp.113-117, DOI: 10.2478/msr-2024-0016	August 2024	Q3	SCI IF: 1.1
6	ResDense Fusion: enhancing schizophrenia disorder detection in EEG data through ensemble fusion of deep learning models	S. Senthil Kumar, A. R. Venmathi, Yuvaraja Thangavel, L. Raja	Neural Computing and Applications	Vol. 37, pp.2411-2433, https://doi.org/10.1007/s00521-024-10701-5	December 2024	Q1	SCI IF: 4.5
7	All pass transformation based variable digital filter design using low power approximate floating point adder and low power compressor based approximate multiplier	P. Thilagavathi , S. Senthil Kumar, D. Gowthami, A. Sridevi	INTEGRATION, the VLSI journal	Vol. 102, pp. 102344	January 2025	Q3	SCI IF: 3.8
8	Robust optimization-based energy management system for integrating renewable energy resources and smart grid technology	N. Loganathan , P.S. Mayurappriyan , K. Lakshmi , S. Madhankumar	Sustainable Energy Technologies and Assessments	Vol. 75, pp. 104235, https://doi.org/10.1016/j.seta.2025.104235	February 2025	Q1	SCI IF: 7.1
9	An integrated approach using active power loss sensitivity index and modified ant lion optimization algorithm for DG placement in radial power distribution network	P. Rajakumar, P. M. Balasubramaniam, Mohammed Hasan Aldulaimi, Arunkumar M, S. Ramesh, Mohammad Mukhtar Alam & Qasem M. Al-Mdallal	Scientific Reports	Vol.15, pp.10481 (2025). https://doi.org/10.1038/s41598-025-87774-2	March 2025	Q1	SCI IF: 3.8

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10	Energy management in alternating current microgrids with renewable energy sources integration using giant trevally optimizer-self-adaptive physics-informed neural networks	Sakthivel Aruchamy; Muthukumar Kandasamy, ; Sureshkumar Kumaravel; Ramesh Senniyappan; U. Arun Kumar; Nirmala Muthusamy	Journal Renewable Sustainable Energy	Vol.17, pp.024105 (2025)	April 2025	Q3	SCI IF: 2.1
11	Optimal detection and classification of grid connected system using MSVM-FSO technique	Samuel Raj Daison Stallon, Ramanpillai Anand, Ramasamy Kannan, Seenakesavan Rajasekaran	Environmental Science and Pollution Research	Vol. 31, pp.31064-31080, https://doi.org/10.1007/s11356-024-32921-x	April 2024	Q1	SCI IF: 5.4
12	Using hybrid firebug swarm optimization and jellyfish search to enhance DC-DC converter efficiency in solar PV systems	R. Anand, S. Daison Stallon, S. Rajasekaran, · R. Kannan	Environment, Development and Sustainability	https://doi.org/10.1007/s10668-024-05797-7	December 2024	Q1	SCI IF: 4.7
13	Enhanced Pneumonia Detection Using Ensembled Deep Neural Networks	Senthil Kumar S, Pravin Kumar, M, Karthick S, Nilabar Nisha U	Journal of Machine and Computing	Vol. 05, No. 02, pp. 1152-1159 DOI: 10.53759/7669/jmc202505091	April 2025	Q4	Scopus
14	Enhancing Ransomware Detection in Cybersecurity: A Comprehensive Ensemble Approach	Sharath Kumar D R V A, Rajakumareswaran V., Katuri Rayudu, Vasanthi A., Tharani B., Senthil Kumar R.	Journal of Electrical Systems	Vol. 20 No. 10s , pp. 5315-5324 DOI: https://doi.org/10.52783/jes.6235	September 2024	-	Scopus

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15	Design and Implementation of Energy-Efficient Lighting Systems in Warehouse Environments Using Dialux	Ganesh Moorthy Jagadeesan, Arivoli Sundaramurthy, Senthil Kumar P , Sivapragasam J, Sathiya D ,Perumal K	VDI Z Integrierte Produktion	Vol. 11, no. 10, pp.35-59, DOI: 10.3789 7.VZIPJ.2024. V11I10.24.408 16	September 2024	Q4	Scopus
16	Unmanned aerial vehicle resilience: A new approach to fault diagnostics framework	Ashish A. Mulajkar, Varsha D. Jadhav, Dhananjay R. Dolas, S. Gowtham, Madhuri S. Bhagat, Harshal Patil, P. Satishkumar	Journal of Autonomous Intelligence	Volume 7 Issue 5, pp.1-17, doi: 10.32629/jai. v7i5.1637	July 2024	Q4	Scopus
17	Optimization of Bidirectional Converters and BLDC Motor Control in Microgrids Using Priority Adaptive Particle Optimization Driven Boosting Model	Ragul S ,Raghavendran PS , Ramesh S	Journal of Electrical Systems	Vol. 20, No.11s, pp. 2201-2219	December 2024	Q4	Scopus
18	Energy management in smart grids for optimal IoT integration with enhanced energy and exergy efficiencies using Garra rufa fish optimisation approach	V.V. Rajasegharan, Bharatha Babu K, R. Jeyabharath and Vasanth Prabhu V	International Journal of Exergy	Vol. 45, No. 3-4, pp 175-191https://doi.org/10.1504/IJEX.2024.142624 PDF	November 2024	Q3	Scopus