



Department of Electrical and Electronics Engineering

Research Paper Publications by the Faculty (CAY 2024-25)

S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Month & Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
1.	Dr. T. Anuradha	A Hybrid Technique for Bidirectional Smart Charging of EVs Using BLDC Motor and Bidirectional Converter	Taylor and Francis - IETE Journal of Research	Nov 2024	ISSN 0974-780X	https://doi.org/10.1080/03772063.2024.2409685	SCI	1.3
2.	Ms. M. Shanmugapriya	Firefly-optimized PI and PR controlled single-phase grid-linked solar PV system to mitigate the power quality and to improve the efficiency of the system	Springer Nature Link - Electrical Engineering	Nov 2024	ISSN 1432-0487	https://doi.org/10.1007/s00202-024-02868-w	SCI	3.6
3.	Ms. M. Shanmugapriya	Fabrication and characterization of PVA-based biocomposite EMI shielding material for low power loss wireless charging applications	Springer Nature Link - Biomass Conversion and Biorefnery	Sep 2024	ISSN 2190-6823	https://doi.org/10.1007/s13399-024-06081-4	SCI	1.5



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4.	Dr. T. Anuradha Ms. Jitha Varghese	Experimental investigation on the design of a three-phase power factor corrector utilizing a SEPIC converter	Elsevier -Thermal Science and Engineering Progress	Dec 2024	ISSN: 2451-9049	https://doi.org/10.1016/j.tsep.2024.102951	SCI	5.28
5.	Dr. T. Anuradha Mr. S. Balaji	Exergy-based design and analysis of spiral circular and square coils for EV wireless battery charging application	Inder Science - International Journal of Exergy	Jan 2025	ISSN: 1742-8297, 1742-8300	https://doi.org/10.1504/IJEX.2025.143789	SCI	1.4
6.	Dr. T. Anuradha	Development of Consensus Trust-based Mechanism with Expulsion of Malicious Nodes for Permissioned Private Blockchain Networks	International journal of vehicle structures and systems	Nov 2024	ISSN: 09753060, 09753540	Doi: 10.4273/ijvss.16.4.08	Scopus	NA
7.	Dr. Meena Devi	Aesthetic Intelligence and Fuzzy Computing in Art and Design	Pakistan Journal of Life and Social Sciences	Dec 2024	E-ISSN: 2221-7630;P-ISSN: 1727-4915	https://doi.org/10.57239/pjlss-2025-23.1.0038	Scopus	NA



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8.	Ms. A. V. Suganya	Cascaded H-Bridge 15 Level Inverter with Reduced Switch Count	IEEE Explore	Jan 2025	ISBN:979-8-3503-8520-5	DOI: 10.1109/SPARC61891.2024.10829305	Scopus	NA
9.	Dr. L. Pattathu Rani	Seagull Optimization Algorithm for Underwater Sensor Network Localization	IEEE Explore	Jan 2025	ISBN:979-8-3503-9075-9	DOI: 10.1109/ICCCS61609.2024.10763890	Scopus	NA
10.	Ms. M. Shanmugapriya	Compare the Performance of Meta-Heuristics Algorithm: A Review	IGI Global : scientific publishing - Metaheuristics Algorithm and Optimization of Engineering and Complex Systems	Nov 2024	NA	DOI: 10.4018/979-8-3693-3314-3.ch013	Scopus	NA
11.	Ms. M. Shanmugapriya	Analyzing Renewable Power Integration in Edible Devices on Variable Rate Pumped Storage	IGI Global – scientific publishing - In book: Design and Optimization of Wearable, Implantable, and Edible Antennas	May 2024	NA	DOI: 10.4018/979-8-3693-2659-6.ch018	Scopus	NA



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12.	Ms. M. Shanmugapriya	Enhancing Photovoltaic System Performance Using PSO for Maximum Power Point Tracking and DC-Bus Voltage Regulation in Grid-Connected PV Systems	IGI Global: Scientific publishing - Metaheuristics Algorithm and Optimization of Engineering and Complex Systems	Aug 2024	NA	DOI: 10.4018/979-8-3693-3314-3.ch017	Scopus	NA
13.	Ms. M. Shanmugapriya	Metaheuristic Algorithms for Robot Path Planning: A Comprehensive Exploration	IGI Global : scientific publishing - Metaheuristic and Machine Learning Optimization Strategies for Complex Systems	Aug 2024	NA	DOI: 10.4018/979-8-3693-7842-7.ch012	Scopus	NA
14.	Ms. M. Shanmugapriya	Meta-Heuristic Algorithms for Optimal Sizing of Hybrid Renewable Energy Systems	IGI Global : scientific publishing - Metaheuristic and Machine Learning Optimization Strategies for Complex Systems	Aug 2024	NA	DOI: 10.4018/979-8-3693-7842-7.ch011	Scopus	NA



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15.	Ms. M. Shanmugapriya	Failure Rate Examination for Liability Tree-Based Analysis for Clamped Double Subsystem With DC Short Voltage Protective Functionality	IGI Global : scientific publishing - Intelligent Solutions for Sustainable Power Grids	Aug 2024	NA	DOI: 10.4018/979-8-3693-3735-6.ch018	Scopus	NA
16.	Ms. M. Shanmugapriya	Efficient Design for Implantable Device Constant Current Induction Doubly Fed Generating Incorporating Grid Connectivity	IGI Global : scientific publishing - Intelligent Solutions for Sustainable Power Grids	Aug 2024	NA	DOI: 10.4018/979-8-3693-3735-6.ch019	Scopus	NA



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1.	Dr. T. Anuradha	Optimized Hybrid CNN-LSTM Based Islanding Detection of Solar-Wind Power System	Taylor & Francis - Electric Power Components and Systems	Jun -23	ISSN: 1532-5008	https://doi.org/10.1080/15325008.2023.2220333	SCI	2.03
2.	Dr. T. Anuradha	An Intelligent Load Balancing Strategy for Energy Cost Minimization in EV Applications	Taylor & Francis - Electric Power Components and Systems	Aug-23	ISSN: 1532-5008	https://doi.org/10.1080/15325008.2023.2239217	SCI	2.03
3.	Dr. R. Murugan	Estimation of photovoltaic models using an enhanced Henry gas solubility optimization algorithm with first-order adaptive damping Berndt-Hall-Hall-Hausman method	Elsevier- Journal Energy Conservation and Management.	Nov-23	ISSN: 1968904	https://doi.org/10.1016/j.enconman.2023.117831	SCI	11.46



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4.	Dr. T. Anuradha	Voltage-Fed single stage inverter for generating systems with Multi-Input inverter using Pulse Width Modulation	Elsevier - Sustainable Energy Technologies and Assessments	Sep-23	ISSN: 22131388	https://doi.org/10.1016/j.seta.2023.103483	SCI	8.84
5.	Mr. S. Balaji, Dr. T. Anuradha	Adaptation of Renewable Energy Resources to Wireless EV Charging Using Deep Learning	Taylor & Francis - Electric Power Components and Systems	Oct-23	ISSN: 1532-5008	https://doi.org/10.1080/15325008.2023.2269928	SCI	2.03
6.	Dr. T. Anuradha	An attack resistant physical unclonable function smart optical sensors for internet of things for secure remote sensing	Elsevier - Measurement : Sensors	Aug-23	ISSN: 26659174	https://doi.org/10.1016/j.measen.2023.100882	SCI	1.08
7.	Dr. T. Anuradha	Review of islanding detection using advanced signal processing	Springer- Electrical Engineering	Aug-23	ISSN: 14320487, 09487921	https://doi.org/10.1007/s00202-023-01967-4	SCI	1.6



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8.	Dr. K. Karthikeyan	Performance analysis of pulsed direct current electrocoagulation for chemical oxygen demand removal from wastewater: energy savings and cost minimization	Elsevier - Journal Desalination and Water Treatment	Dec-23	ISSN: 19443994, 19443986	doi: 10.5004/dwt.2023.30188	SCI	1.25
9.	Mr. ArvinTony A	AI-IOT-Based Adaptive Control Techniques for Electric Vehicles	Taylor & Francis - Electric Power Components and Systems	Jan-24	ISSN: 1532-5008	DOI: 10.1080/15325008.2024.2304685	SCI	2.03
10.	Dr. T. Anuradha	Improving the efficiency of induction motor drive by flux and torque control: A hybrid LSE-RERNN approach	Elsevier – ISA Transactions	Apr-24	ISSN: 190578	https://doi.org/10.1016/j.isatra.2024.01.034	SCI	7.98
11.	Dr. T. Anuradha	The State-of-the-art Energy Management Strategy in	IEEE Xplore	Jun-23	ISSN: 2767-7788	DOI: 10.1109/ICICT57646.2023.10134496	Scopus	NA



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		Hybrid Electric Vehicles for Real-time Optimization						
12.	Dr. T. Anuradha	Simulation of the Electrical Control Unit (ECU) in Automated Electric Vehicles for Reliability and Safety Using On-Board Sensors and Internet of Things	IEEE Xplore	Jul-23	ISBN:978-1-6654-9360-4	DOI: 10.1109/CECCT56650.2023.10179682	Scopus	NA
13.	Dr. T. Anuradha	Pattern Recognition and Modelling in Electrocardiogram Signals: Early Detection of Myocardial Ischemia and Infraction	IEEE Xplore	Aug-23	ISBN:979-8-3503-4757-9	DOI: 10.1109/CECAA58104.2023.10212133	Scopus	NA
14.	Dr. T. Anuradha	Evaluation of a Wireless Sensor Network for the Detection of Forest Fires	IEEE Xplore	Aug-23	ISBN:979-8-3503-4757-9	DOI: 10.1109/CECAA58104.2023.10212390	Scopus	NA
15.	Dr. K.Karthikeyan	Ergonomic assessment of sleep postures and load-strength analysis of nylon stripped steel bed	AIP - Contemporary Innovations in Engineering	Nov-23	ISSN: 1551-7616	https://doi.org/10.1063/5.0158444	Scopus	NA



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16.	Dr. T. Anuradha	Analysis of Electroencephalographic Signals to Study the Behavior of Brain Frequencies for the Study of Academic Stress	IEEE Xplore	Jan-24	ISBN: 979-8-3503-4023-5	DOI: 10.1109/ICACRS58579.2023.10404760	Scopus	NA
17.	Dr. T. Anuradha	Conceptualization of a Cardiac Monitoring System via Bluetooth Communication Protocol to Mobile Devices	IEEE Xplore	Mar-24	ISBN:979-8-3503-2753-3	DOI: 10.1109/ICIoT59759.2024.10467457	Scopus	NA
18.	Dr. T. Anuradha Ms. A.V. Suganya	Development of a Grid-Connected Microinverter Based on the Integration of the CUK Converter with a Switchgear Structure	IEEE Xplore	Mar-24	ISBN:979-8-3503-2753-3	DOI: 10.1109/ICIoT59759.2024.10468042	Scopus	NA
19.	Dr. T. Anuradha	Traffic Sign Detection Problems using Convolutional Neural Techniques in Image Processing	IEEE Xplore	Jul-24	ISBN:979-8-3503-7523-7	DOI: 10.1109/SCS61804.2024.10581183	Scopus	NA



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20.	Ms. Jitha Varghese	FLC Control Based Sepic for Power Factor Correction	IEEE Xplore	Jul-24	ISBN:979-8-3503-8681-3	DOI: 10.1109/CITIT61487.2024.10579988	Scopus	NA
21.	Dr. T. Anuradha	Thyroid Nodule Classification Model from Scintigraphy Images using Convolution Neural Networks	IEEE Xplore	Jul-24	ISBN:979-8-3503-8681-3	DOI: 10.1109/CITIT61487.2024.10580411	Scopus	NA
22.	Mr. S. Balaji	Intelligent Engineering Applications and Applied Sciences for Sustainability - Particle Swarm Optimization of Hybrid Renewable Energy Systems	IGI Global - In Book- Intelligent Engineering Applications and Applied Sciences for Sustainability	Aug-23	ISBN13: 9798369300442	DOI: 10.4018/979-8-3693-0044-2.ch016	Scopus	NA
23.	Dr. T. Anuradha	Artificial intelligence in orthopedic implant model classification	Handbook of Research on Advanced Functional Materials for Orthopedic Applications	Oct-23	ISBN13: 9781668474129	DOI: 10.4018/978-1-6684-7412-9.ch006	Scopus	NA



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1.	Ms. B. Brindha Sakthi Dr. P. Deiva Sundari	Design of coil parameters for inductive type wireless power transfer system in electric vehicles	Wiley - International Journal of energy research	Aug-22	ISSN: 1099114X, 0363907X	https://doi.org/10.1002/er.8016	SCI	5.28
2.	Dr. T. Anuradha	An energy-efficient and reliable data gathering infrastructure using the internet of things and smart grids	Automatika - Journal for Control, Measurement, Electronics, Computing and Communications	May-23	ISSN: 1848-3380	https://doi.org/10.1080/00051144.2023.2205724	SC1	2.44
3.	Dr. P.Deiva Sundari	Analysis of Bidding Strategies in Virtual Power Plant	Springer Nature Link - In book: Energy and Exergy for Sustainable and Clean Environment	Sep-22	NA	DOI:10.1007/978-981-16-8274-2_20	Scopus	NA



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4.	Dr. T. Anuradha	Application of Synthetic Aperture Radar (SAR) based Control Algorithms for the Autonomous Vehicles Simulation Environment,	IEEE Xplore	Nov-22	ISBN: 978-1-6654-8232-5	doi: 10.1109/ICECA_A55415.2022.9936273	Scopus	NA
5.	Dr. T. Anuradha	Load based Fuzzy Controller for Bipolar Stepper Motor	IEEE Xplore	Dec-22	ISBN:978-1-6654-9707-7	DOI: 10.1109/CIRCA54612.2022.9985770	Scopus	NA
6.	Dr. R. Murugan	Design of 24 Watts SEPIC DC-DC Converter for Renewable Source Applications	IEEE Xplore	Dec-22	ISBN:978-1-6654-9707-7	DOI: 10.1109/ICIRC_A54612.2022.9985635	Scopus	NA
7.	Ms. R. Gayathri	Three Phase Buck Boost Converter with PFC for Indian Rails	IEEE Xplore	Dec-22	ISBN:978-1-6654-9707-7	DOI: 10.1109/ICIRC_A54612.2022.9985660	Scopus	NA
8.	Ms. A.V. Suganya	Medical Robot Docking System	IEEE Xplore	Dec-22	ISBN:978-1-6654-9707-7	DOI: 10.1109/ICIRC_A54612.2022.9985693	Scopus	NA



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9.	Ms. B. Brindha Sakthi	Design and Development of Grass Cutter using Solar Renewable Energy Source	IEEE Xplore	Dec-22	ISBN:978-1-6654-9707-7	DOI: 10.1109/ICIRC.A54612.2022.9985636	Scopus	NA
10.	Ms. Jitha Varghese	A Smart Voltage Control Strategy using SEPIC Converter for DC Microgrid	IEEE Xplore	Dec-22	ISBN:978-1-6654-9707-7	DOI: 10.1109/ICIRC.A54612.2022.9985610	Scopus	NA
11.	Mr. A. Arvin Tony	Design of Energy Management System for College Campus	IEEE Xplore	Dec-22	ISBN:978-1-6654-9707-7	DOI: 10.1109/ICIRC.A54612.2022.9985527	Scopus	NA
12.	Mr. S Balaji	Implementation of PID controller for an Interleaved Buck-Boost Converter for Fuel Cell Applications	Journal of Positive School Psychology	Dec-22	ISSN: 2717-7564	NA	Scopus	NA
13.	Dr. T. Anuradha	Global Identification Passport: A Unique	IEEE Xplore	Mar-23	ISSN: 2832-3017	DOI: 10.1109/ICSSIT.55814.2023.10061108	Scopus	NA



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		Cloud based Passport Model						
14.	Dr. T. Anuradha	Secure Authentication and Key Management Protocol for Deployment of Internet of Vehicles (IoV) Concerning Intelligent Transport Systems	IEEE Xplore - IEEE Transactions on Intelligent Transportation Systems	Feb-23	ISSN: 1524-9050	10.1109/TITS.2022.3207593	Scopus	NA
15.	Dr. T. Anuradha	Voltage and Frequency Control of a PV-Battery-Diesel Generator based Standalone Hybrid System	IEEE Xplore	Mar-23	ISBN:978-1-6654-5566-4	DOI: 10.1109/PEDES56012.2022.10080764	Scopus	NA
16.	Dr. T. Anuradha	Power Quality Improvement of Hybrid Standalone Microgrid with DSTATCOM	IEEE Xplore	Mar-23	ISBN:978-1-6654-5566-4	DOI: 10.1109/PEDES56012.2022.10080027	Scopus	NA



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17.	Ms. B. Brindha Sakthi Dr. P. Deiva Sundari	during Faults on Distribution Line SS A Wireless Power Transfer (WPT) System for Series – Series Compensation topology in Electric Vehicle Battery Charging Applications	IEEE Xplore	May-23	ISBN:979-8-3503-3401-2	DOI: 10.1109/I2CT57861.2023.10126399	Scopus	NA
18.	Mr. S. Balaji Dr. P. Deiva Sundari	COMSOL FEA Modeling of Square and Circular coil for Inductive Power Transfer in Electric Vehicle Systems	IEEE Xplore	Mar-23	ISBN:978-1-6654-9400-7	DOI: 10.1109/ICAECT57570.2023.10117968	Scopus	NA



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