KCG
COLLEGE OF TECHNOLOGY
AFFILIATED TO ANNA UNIVERSITY | AUTONOMOUS

Department of Electrical and Electronics Engineering

Research Paper Publications by the Faculty (CAY 2026-2027)

S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
1.	Dr. T. Anuradha	A Multi-objective Optimized Fog-Coordinated Federated Edge AI Framework for IoT Analytics	SN Computer Science, Springer	2026	ISSN 2661-8907	10.1007/s42979-026-05078-2	Scopus	2.79
2.	Dr. T. Anuradha	A Modular IoT-Enabled Multi-gas Monitoring System for Real-Time Environmental and Greenhouse Gas Assessment	SN Computer Science	2026	ISSN 2661-8907	10.1007/s42979-026-05172-5	Scopus	2.79
3.	Dr. T. Anuradha	Energy-Efficient Hybrid Metaheuristic Resource Allocation Model for Dynamic Virtual Machine Scheduling...	SN Computer Science	2026	ISSN 2661-8907	10.1007/s42979-026-05218-8	Scopus	2.79
4.	Dr. T. Anuradha	Diagnosis of Distant Metastatic Lung Cancer Using AI-Driven Swarm Optimization and Ensemble Deep Learning	SN Computer Science	2026	ISSN 2661-8907	10.1007/s42979-026-05174-3	Scopus	2.79

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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
5.	Dr. S. Solai Manohar	Energy prediction and scheduling in battery-less backscatter sensor network for sustainable network management	Pervasive and Mobile Computing	2026	ISSN 1574-1192	10.1016/j.pmcj.2026.102234	SCI	3.9
6.	Dr. R. Murugan	Efficient photovoltaic model parameter estimation using a hybrid meta-heuristic algorithm...	Energy Conversion and Management: X	2026	ISSN 2590-1745	10.1016/j.ecmx.2026.101973	SCI / Scopus	8.8
7.	Dr. Srividhya J P	Intelligent ExDoGBoost-Enabled UPFC System for Power Quality Enhancement in Grid-Connected PV System	International Journal of Smart Grid	2026	ISSN 2602-439X	https://www.ijsmartgrid.org	Scopus	NA
8.	Dr. Srividhya J P	AI-assisted power quality improvement in PV systems using RNN-based DSTATCOM and HiClampCasBoost converter	Engineering and Applied Science Research (EASR)	2026	ISSN 2539-6161	https://ph01.tci-thaijo.org	Scopus	NA
9.	Dr. J.P.Srividhya	Machine learning-based fault diagnosis in power electronics and power systems	Advances in Power Systems and Applications (IIP Series)	2026	978-93-7020-329-7	10.58532/nbennurAPSAV6B1P4C5	Book Chapter	NA

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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
10.	Dr. J.P.Srividhya	Engineering efficiency: lubrication challenges in modern electric vehicles	Advances in Power Systems and Applications (IIP Series)	2026	978-93-7020-329-7	10.58532/nbennurAPSAV6B1P4C4	Book Chapter	NA
11.	Dr. J.P.Srividhya	A quorum queueing system with an unreliable server	Advances in Power Systems and Applications (IIP Series)	2026	978-93-7020-329-7	10.58532/nbennurAPSAV6B1P4C1	Book Chapter	NA
12.	Mr. Balaji S	Machine Learning Techniques for Enhanced Forecasting in Wind Energy Systems	AAP Advances in Green Technologies for Sustainable Energy Solutions	2026	Hard ISBN: 9781779648273	https://www.appleacademicpress.com	Book Chapter	NA
13.	Mr. Balaji S	Cockcroft-Walton Voltage Multiplier Integrated High-Gain Transformer less DC-DC Converter...	Emerging Trends in Electrical and Computer Technologies (Routledge)	2026	ISBN 9781041117636	https://www.routledge.com	Book Chapter	NA

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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
14.	Dr V Subramaniyan	Renewable Energy Systems	Skyline Global Publications	2026	ISBN 978-93-7085-033-0	-	Book	NA
15.	Mrs.Jitha Varghese	LoRa-Enabled Snapped Wire Detection System with Sector-wise Monitoring and Automatic Tripping for LT lines	4th International Conference for Women in Innovation, Technology and Entrepreneurship (ICWITE 2026)	2026	ISBN 979-8-3195-1907-8	-	Conference	NA

Department of Electrical and Electronics Engineering

Research Paper Publications by the Faculty (CAY 2025-2026)

S.No	Name of the Faculty	Title of Journal Publication	Journal Name	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	2025	ISSN 0974-780X	https://doi.org/10.1080/03772063.2024.2409685	SCI	1.3
2.	Dr. T. Anuradha	An Intelligent Electric Vehicle Charging System in a Smart Grid Using Artificial Intelligence	Wiley - Optimal Control Applications and Methods	2025	Online ISSN:1099-1514	https://doi.org/10.1002/oca.3252	SCI	3.5
3.	Dr. T. Anuradha	Cloud-based edge fusion for smart grid powered by blockchain technology	World Scientific - International Journal of Modeling, Simulation, and Scientific Computing	2025	ISSN (print): 1793-9623	https://doi.org/10.1142/S1793962326410023	SCI	1.2

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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
4.	Dr. T. Anuradha	A comprehensive review on islanding detection with intelligent classifiers	AIP Conference Proceedings	2025	-	https://doi.org/10.1063/5.0241788	Scopus	NA
5.	Dr. T. Anuradha	An Effective Image Denoising Model Using Improved Deep Learning Techniques with Optimization Algorithm	International Journal of Pattern Recognition and Artificial Intelligence	2025	ISSN (print): 0218-0014	https://doi.org/10.1142/S0218001425520184	SCI	1.1
6.	Dr. T. Anuradha	AI-Enhanced Anomaly Detection in Software-Defined Networks	2025 International Conference on Advanced Computing Technologies (ICoACT)	2025	-	DOI:10.1109/ICoACT63339.2025.11005170	Scopus	NA
7.	Dr. T. Anuradha	Innovative Energy Distribution Method for Electric Vehicles (IEDM-EV): a multi-objective techno-economic-environmental optimization for smart grid integration	International Journal of Advanced Manufacturing Technology	2025	Print ISSN: 0268-3768	https://doi.org/10.1007/s00170-025-15359-4	SCI	3.5

Department of Electrical and Electronics Engineering

S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
8.	Dr. T. Anuradha	Optimized Malware Detection using Clouded Leopard Optimization for Feature Selection	2025 6th International Conference on Inventive Research in Computing Applications (ICIRCA)	2025	-	doi: 10.1109/ICIRCA65293.2025.11089511	Scopus	NA
9.	Dr. T. Anuradha	Reduction of Current Harmonics in BLDC Motors Using the Proposed Sigmoid Trapezoidal Current Hysteresis Control	World Electric Vehicle Journal	2025	ISSN: 2032-6653	**https://doi.org/10.3390/wevj16070355**	SCI	2.6
10.	Dr. T. Anuradha Ms. Jitha Varghese	Analysis and Design of PFC with SEPIC Converter: A PQ Theory-Based Current Generation Approach	Renewable Energy, Green Computing, and Sustainable Development. REGS 2025	2025	ISSN: 978-3-032-00982-1	https://doi.org/10.1007/978-3-032-00983-8_20	Scopus	NA
11.	Dr. T. Anuradha	Quantum-resilient framework for healthcare data security using multivariate polynomial cryptography	International journal of system assurance engineering and management	2025	ISSN: 09756809	https://doi.org/10.1007/s13198-025-02954-7	Scopus	NA

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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
12.	Dr. T. Anuradha	A hybrid machine learning strategy for aquatic plant surveillance in sustainable aqua-ecosystems using IoT attributes	Aquaculture	2025	ISSN: 0044-8486	https://doi.org/10.1016/j.aquaculture.2025.742779	SCI	3.9
13.	Dr. T. Anuradha	State-of-Health Prediction for Electric Vehicle Battery Systems with Quantum Spatial Graph Convolution	Iranian Journal of Science and Technology Transactions of Electrical Engineering	2025	ISSN: 22286179	https://doi.org/10.1007/s40998-025-00941-z	SCI	1.4
14.	Dr. T. Anuradha	A hybrid neural architecture for enhanced lithium-ion battery SOH estimation and RUL prediction	Journal of energy storage	2025	ISSN: 2352-152X	https://doi.org/10.1016/j.est.2025.119019	SCI	9.8
15.	Dr. T. Anuradha	Smart grid simulation & modeling for innovative home control: cloud-based fuzzy control design	International Journal of System Assurance Engineering and Management	2025	ISSN 0976-4348	DOI:10.1007/s13198-025-03023-9	SCI	1.4

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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
16.	Dr. S. Solai Manohar	Mitigating Catastrophic forgetting in imitation learning for embodied AI using progressive neural networks	Economic computation and economic cybernetics studies and research	2025	ISSN: 0424–267X	10.24818/18423264/59.3.25.06	SCI	1.0
17.	Dr. R. Murugan	Adaptive penalty function approach in hybrid ABC-SA for the solution of combined heat and power economic dispatch problem with security constraints	Journal Of Electrical Engineering	2025	ISSN NO:2095-9524	-	Scopus	NA
18.	Dr. Meena Devi	Eco-Conscious Multi-Factor Authentication Protocols for Energy-Aware Wireless Networks	Results in Engineering	2025	ISSN: 2590-1230	https://doi.org/10.1016/j.rineng.2025.107807	SCI	7.9
19.	Dr. Meena Devi	Aesthetic Intelligence and Fuzzy Computing in Art and Design	Pakistan Journal of Life and Social Sciences	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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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
20.	Dr. Meena Devi	Optimizing Multi-Hop Wireless Networks: Cross-Layer Approaches for Secure and Efficient IoT Communication	IEEE Explore	2025	-	doi: 10.1109/ICIMA64861.2025.11074046.	Scopus	NA
21.	Dr. Meena Devi	Image-Based Soil Health Analysis Using Deep Learning for Precision Agriculture	IEEE Explore	2025	ISBN: 979-8-3503-7796-5	DOI: 10.1109/ICCES63552.2024.10860230	Scopus	NA
22.	Dr. Meena Devi	Hybrid Encryption Algorithm Integrating AES-256 and RNA Schemes for Enhanced Secure	TANZ	2025	ISSN NO: 1869-7720	DOI: 10.61350/TJ5440389	Scopus	NA
23.	Dr. Balavignesh S	Sandpiper Optimized PI-Controlled Triple-Core Integrated Boost Converter for Solar-Powered BLDC Motor Driven Electric Vehicle	Wiley - Optimal Control Applications and Methods	2025	Online ISSN:1099-1514	https://doi.org/10.1002/oca.70021	SCI	3.5
24.	Mr. S. Balaji	Energy-Efficient Wireless Communication Systems Powered by Renewable Energy Sources	Recent Advances in Smart Communication Technologies for A Sustainable Future	2025	ISBN13: 9798337335414	DOI: 10.4018/979-8-3373-3541-4.ch006	Scopus	NA

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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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Month & Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
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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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Month & Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
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/IICCCS61609.2024.10763890	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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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Month & Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
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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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Month & Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
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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Research Paper Publications by the Faculty (CAY 2023-24)

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	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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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Month & Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
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	Elseveir - 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

Department of Electrical and Electronics Engineering

S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Month & Year	ISSN/ISBN No	DOI	SCI/Scopus	Impact Factor
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	Elseveir – 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						
S.No	**Name of the Faculty**	**Title of Journal Publication**	**Journal Name**	**Month & Year**	**ISSN/ISBN No**	**DOI**	**SCI/Scopus**	**Impact Factor**
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/ICECCT56650.2023.10179682	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/ICECAA58104.2023.10212133	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/ICECAA58104.2023.10212390	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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			and Management					
S.No	**Name of the Faculty**	**Title of Journal Publication**	**Journal Name**	**Month & Year**	**ISSN/ISBN No**	**DOI**	**SCI/Scopus**	**Impact Factor**
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/IDCIoT59759.2024.10467457	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/IDCIoT59759.2024.10468042	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/ISCS61804.2024.10581183	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/ICITIIT61487.2024.10579988	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/ICITIIT61487.2024.10580411	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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Research Paper Publications by the Faculty (CAY 2022-23)

S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Month & Year	ISSN/ISBN No	DOI	SCI/ Scopus	Impact Factor
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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S.No	Name of the Faculty	Title of Journal Publication	Journal Name	Month & Year	ISSN/ISBN No	DOI	SCI/ Scopus	Impact Factor
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/ICECAA55415.2022.9936273	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/ICIRCA54612.2022.9985770	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/ICIRCA54612.2022.9985635	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/ICIRCA54612.2022.9985660	Scopus	NA
8.	Ms. A.V. Suganya	Medical Robot Docking System	IEEE Xplore	Dec-22	ISBN:978-1-6654-9707-7	DOI: 10.1109/ICIRCA54612.2022.9985693	Scopus	NA

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S.No	**Name of the Faculty**	**Title of Journal Publication**	**Journal Name**	**Month & Year**	**ISSN/ISBN No**	**DOI**	**SCI/ Scopus**	**Impact Factor**
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/ICIRCA54612.2022.9985636	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/ICIRCA54612.2022.9985610	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/ICIRCA54612.2022.9985527	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/ICSSIT55814.2023.10061108	Scopus	NA

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		Cloud based Passport Model						
S.No	**Name of the Faculty**	**Title of Journal Publication**	**Journal Name**	**Month & Year**	**ISSN/ISBN No**	**DOI**	**SCI/ Scopus**	**Impact Factor**
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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		during Faults on Distribution Line SS						
S.No	**Name of the Faculty**	**Title of Journal Publication**	**Journal Name**	**Month & Year**	**ISSN/ISBN No**	**DOI**	**SCI/Scopus**	**Impact Factor**
17.	Ms. B. Brindha Sakthi Dr. P. Deiva Sundari	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