

## Paper publications- By Staff

Dr.T.Raja	Advanced DVR control with IOT for voltage sag compensation in wind-connected power grids	International journal of advances in signal and image sciences	Scopus	International	2025
Dr.T.Raja	EEG signal analysis for classifying alzheimer's and frontotemporal dementia disorders using ensemble methods	International journal of advances in signal and image sciences	Scopus	International	2025
Dr.T.Raja	Cloud-Powered AI Virtual Health Assistants for Effective Patient Query Management and Health Information Access	IEEE Explore - 2025 11th International Conference on Communication and Signal Processing (ICCSP)	Scopus	International	2025
Dr.T.Jayakumar	Safety Reinvented Fabrication of Glass Cleaning Robot to Enhance Residential Safety Measures	International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICES)	Scopus	International	2025
Dr.T.Jayakumar	Experimental Evaluation of BigData Analytics to Improve Communication Security and Privacy Enrichment using Cybersecurity Logics	2nd International Conference on Emerging Trends in Engineering and Medical Sciences (ICETEMS)	Scopus	International	2025
Dr.T.Jayakumar	A Robust Prediction of Online Social Network Influencers by Using Elevated Deep Learning Strategy	2nd International Conference on Emerging Trends in Engineering and Medical Sciences (ICETEMS)	Scopus	International	2025
Dr. K. Gobivel	Machinability of Mg-Al <sub>2</sub> O <sub>3</sub> Nanocomposites: Effects of Volume Percentage and Cutting Inserts	Journal of Materials Engineering and Performance	SCIE	International	2025
Dr. K. Gobivel	Effect of machining parameters on cutting forces, chip microstructure and tool wear in Mg-ZrO <sub>2</sub> reinforced MMCs	Physica Scripta	SCIE	International	2025
Mr. K. K. Manivannan	Characterization of Moringa oleifera husk biocarbon and bagasse micro fibre toughened vinyl-based microwave shielding composite for E-Vehicle	Journal of the Australian Ceramic Society	SCIE	International	2025
Mr. K. K. Manivannan	Efficient Thermal Pollution Management in Water Bodies through Cloud-Based Monitoring and XGBoost	Asian Conference on Intelligent Technologies (ACOIT)	Scopus	International	2025
Mr. K. K. Manivannan	Identifying Sources of Soil Pollution in Industrial Areas Using IoT Data and Neural Networks	Asian Conference on Intelligent Technologies (ACOIT)	Scopus	International	2025

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	Electrical Engineering	SCIE	International	2024
M. Shanmugapriya	Fabrication and characterization of PVA-based biocomposite EMI shielding material for low power loss wireless charging applications	Biomass Conversion and Biorefinery	SCIE	International	2024
Dr.T.Raja	Combustion performance and emission characteristics of aloevera diesel–emulsified fuel in a DI diesel engine	Environmental Science and Pollution Research	SCI	International	2024
Dr.T.Raja	Experimental study of manufacturing of human mandible using fusion deposit modeling (rapid prototyping)	Materials today proceedings	Scopus	International	2023
Dr.T.Jayakumar	Unlocking insights of oil derivatives with terahertz spectrum analysis: the hybrid refractive index rectangular core photonic crystal fiber perspective sensing	Journal of Optics	SCI	International	2023
Dr.T.Jayakumar	High performance efficiency of optical networking infrastructure characteristics with maximum speed of commercial fiber optic line cables employment	Journal of optimal communications	SCI	International	2023
Dr.T.Jayakumar	Cutting-Edge Travel Planner: Intelligent Route Recommendation System using Enhanced Learning Scheme with AI Principles	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), Chennai, India	Scopus	International	2024
Dr.T.Jayakumar	Experimental Design of a Delay Reduction Model using Enhanced Routing Protocol to Ensure Lifetime Enhancement of Nodes in Wireless Sensor Network	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), Chennai, India	Scopus	International	2024

Dr.T.Jayakumar	A Robust Design of Fault Nodes Identification and Recovery Model Over Wireless Sensor Network	2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), Chennai, India	Scopus	International	2024
K.K. Manivannan	Machine Learning and Data Mining Approaches for Infectious Disease Surveillance and Outbreak Management in Healthcare	2024 International Conference on Advancements in Smart, Secure and Intelligent Computing (ASSIC), Bhubaneswar, India	Scopus	International	2024
K.K. Manivannan	Artificial Neural Network-Based Clinical Decision Support System for Personalized Hypertension Management	2024 International Conference on Advancements in Smart, Secure and Intelligent Computing (ASSIC), Bhubaneswar, India	Scopus	International	2024
M. Shanmugapriya	Failure Rate Examination for Liability Tree-Based Analysis for Clamped Double Subsystem With DC Short Voltage Protective Functionality	Intelligent Solutions for Sustainable Power Grids	Scopus	Book Chapter	2024
M. Shanmugapriya	Efficient Design for Implantable Device Constant Current Induction Doubly Fed Generating Incorporating Grid Connectivity	Intelligent Solutions for Sustainable Power Grids	Scopus	Book Chapter	2024

#### 1) Paper presentations

S.No.	Presenter	Title	Conference	Organized by	National / International	Date
4	Dr. S.Kaliappan , Nithish.R , Harish K, Indresh A N	Design and Manufacturing of Planetary Gearbox for automated purpose	AICTE-Sponsored International Conference on Recent Advances & Innovations in Science, Technology, Engineering & management	Loyolla Institute of Technology, Palanchur, Chennai-123	International	04-10-23 & 05-10-23

6	Dr.Jayakumar , Sanjeev kumar K, Sanjeev Rajan S . Arun A	An Assessment of the Efficiency and Emissions Properties bio-oil and materials by pyrolysis	AICTE-Sponsored International Conference on Recent Advances & Innovations in Science, Technology, Engineering & management	Loyolla Institute of Technology, Palanchur, Chennai-123	International	04-10-23 & 05-10- 23
7	Ms. M.Shanmugapriya, Kashifa A, Angely Printana J, Menmozhi M	An overview of the Geometric turbocharger design	AICTE-Sponsored International Conference on Recent Advances & Innovations in Science, Technology, Engineering & management	Loyolla Institute of Technology, Palanchur, Chennai-123	International	04-10-23 & 05-10- 23
8	Mr. K.K.Manivannan , Balaji V M, Shazia Begum Z, Rajesh K,	A Review on Conventional Aircraft Pulse Jet Engine	AICTE-Sponsored International Conference on Recent Advances & Innovations in Science, Technology, Engineering & management	Loyolla Institute of Technology, Palanchur, Chennai-123	International	04-10-23 & 05-10- 23