



NANDHA ENGINEERING COLLEGE

(An Autonomous institution, Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)

Accredited by NAAC with 'A+' grade)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year 2023-2024

FACULTY JOURNAL PUBLICATION

S.No	Description	Count
1	SCI/SCIE Indexed	3
2	Scopus Indexed Journal	2
3	Scopus Indexed Conference	9
Total Publication		14

1. Zekrifa, Djabeur Mohamed Seifeddine, R. Saravanakumar, Sruthi Nair, **Krishnagandhi Pachiappan**, D. Vetrithangam, T. Kalavathi Devi, T. Ganesan, M. Rajendiran, and S. Rukmani Devi. "Securing energy horizons: Cloud-driven based machine learning methods for battery management systems." Journal of Intelligent & Fuzzy Systems 46, no. 1 (2024): 3029-3043. ([SCI Index Journal](#))
2. P. Sundaramoorthy, A. Vijayakumar, K. Rajkumar, **J. Ponnusamy**, G. Chandrasekaran and V. Madhaiyan, "Impacts of Laminating Core Materials on Permanent Magnet Synchronous Motor by Newton–Raphson Methodc," in IEEE Canadian Journal of Electrical and Computer Engineering, vol. 47, no. 2, pp. 105-110, Spring 2024, doi: 10.1109/ICJECE.2024.3370973. ([SCI Index Journal](#))
3. Thenmozhi, M., S. Umamaheswari, Albert Alexander Stonier, and **Jayakumar Thangavel**. "Design and implementation of photovoltaic-assisted dynamic voltage restorer using fuzzy logic controller-based improved SOGI for power quality improvement." Electrical Engineering 106, no. 3 (2024): 3475-3493. ([SCI Index Journal](#))
4. Maheswari, C., S. Shankar, S. Albert Alexander, **G. Ramani**, and P. Maheswari. "Improving the Groundnut Oil Extraction Efficiency using RSM and Central Composite Design (CCD) Optimization Techniques." Journal of Engineering Science & Technology Review 17, no. 2 (2024). ([Scopus Index Journal](#))
5. Ramesh, G., Thangamalar, J. B., **Pachiappan, K.**, & Megala, J. (2023). Wireless sensor networks for improved garbage monitoring and environmental sustainability using leach protocol based. In Journal of Environmental Protection and Ecology (Vol. 24, Issue 5, pp. 1669–1679). ([Scopus Index Journal](#))



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6. Yamunarani, T., **R. Vijayalakshmi**, G. Karthikeyan, V. G. Pratheep, and R. Prabu. "Controller Design for Earthquake Excitations Using Smart Base-Isolated Structure." In 2023 International Conference on Sustainable Communication Networks and Application (ICSCNA), pp. 540-545. IEEE, 2023. ([IEEE Xplore](#), [Scopus Index Conference](#))
7. Sharmila, M., **M. Manjula**, B. Muthu Yogesh, S. Keerthana, P. Vijayakumar, and N. Selvam. "Efficient Brain-Computer Interface for Attention Detection in Health Care Industry." In 2023 International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS), pp. 448-453. IEEE, 2023. ([IEEE Xplore](#), [Scopus Index Conference](#))
8. Govindasamy, P., **B. Ramraj**, Gopinath Singaram, P. Sasirekha, V. Sabarivelu, and S. Rajan. "Electricity Generation of Dynamic Bifacial Solar Panels using IoT." In 2023 International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS), pp. 1605-1610. IEEE, 2023. ([IEEE Xplore](#), [Scopus Index Conference](#))
9. **C. Pratheeba**, M. Muthuvinayagam, M. Siva Ramkumar, C. Rohith Bhat, P. Maniraj and N. S. Kumar, "A Review of an Off Grid Solar DC System for Rural Houses," 2023 7th International Conference on Intelligent Computing and Control Systems (ICICCS), Madurai, India, 2023, pp. 1837-1843, doi: 10.1109/ICICCS56967.2023.10142541. ([IEEE Xplore](#), [Scopus Index Conference](#))
10. **Ravichandran, V.**, Gopinath Singaram, J. Velmurugan, M. Sivaramkrishnan, J. Karthikeyan, and Neelam Sanjeev Kumar. "A Review of the Challenges in EV Wireless Charging Technology." In 2023 8th International Conference on Communication and Electronics Systems (ICCES), pp. 263-269. IEEE, 2023. ([IEEE Xplore](#), [Scopus Index Conference](#))
11. **Jamuna, P.**, K. Kavin Kumar, A. Murugesan, G. Karthikeyan, S. Dineshkumar, and M. Sangeetha. "Intelligent Automation in Long Vehicles through LDR Sensor Technology for Accident Prevention." In 2024 International Conference on Communication, Computing and Internet of Things (IC3IoT), pp. 1-6. IEEE, 2024. ([IEEE Xplore](#), [Scopus Index Conference](#))
12. **Ramani, G.**, K. Kavin Kumar, M. Chitra, M. Panneer Selvam, N. Selvam, and S. Sudha. "Performance improvement of lithium-ion battery for battery evs." In 2024 International Conference on Communication, Computing and Internet of Things (IC3IoT), pp. 1-6. IEEE, 2024. ([IEEE Xplore](#), [Scopus Index Conference](#))
13. Pavithara, P., M. Ramesh, **M. Prabu**, and P. Ponmurugan. "Design and analysis of 4 bit multipliers using pass transistor logic and gate diffusion input technique using 18nm FinFET technology." In 2024 7th International Conference on Devices, Circuits and Systems (ICDCS), pp. 291-295. IEEE, 2024. ([IEEE Xplore](#), [Scopus Index Conference](#))



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14. Sathyasree, K., K. Kavin Kumar, S. Sivaselvi, AV Santhosh Babu, R. Deebika, and B. Banumithra. "Low Power and Enhanced Data Retention Time in DRAM in FinFET Technology." In 2024 International Conference on Communication, Computing and Internet of Things (IC3IoT), pp. 1-6. IEEE, 2024. ([IEEE Xplore](#), [Scopus Index Conference](#))

G. R. J.
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