

## LIST OF JOURNAL PUBLICATIONS

2022-2023 (till March)

1. R.Seyezhai, A.Bharathi Sankar Ammaiappan, N.Heera, P.Keerthana, MathangiSrinivasan, "Simulation and hardware development of AC-DC power converter for Off- board charger of EV", International Journal Materials Today Proceedings, Elsevier July 2022, Volume 62, ISSN 2214-7853.
2. Venkatakrishnan GR, Rengaraj R, Rajalakshmi M, "An efficient energy management in smart grid based on IOT using ROAWFSA technique", International Journal Soft Computing July 2022, ISSN 1432-7643, DOI <https://doi.org/10.1007/s00500-022-07266-7>, Impact factor 3.732 indexed in WOS/TR/SD
3. Dr. R Jeya, G.R.Venkata Krishnan, C. Rajesh Babu, "Traffic Sign Classification and Recognition using LE-NET Technique", International Journal INTERNATIONAL JOURNAL OF EARLY CHILDHOOD SPECIAL EDUCATION July 2022, Volume 14, pp 544, ISSN 1308-5581, DOI NA, Impact factor 1 indexed in WOS/TR/SD
4. Anjana Ethirajan, FT-RS/EEE and R. Ramaprabha, "Mathematical Modeling of Buck Converter with Relay Feedback", International Journal of Circuits, Systems, and Computers July 2022, Volume 31, pp Article No. 2250191 (13 pages), ISSN ISSN (print): 0218-1266| ISSN (online): 1793-6454, DOI <https://doi.org/10.1142/S0218126622501912>, Impact factor indexed in WOS/TR/SD
5. T. Divya and R. Ramaprabha, "Embedded Switched Z-Source Multilevel Inverter for Grid Interfaced Photovoltaic Systems", International Journal on Advances in Electrical and Computer Engineering, Vol. 22, No. 3, pp. 43-52, Aug 2022, (Print ISSN: 1582-7445, Online ISSN: 1844-7600), (DOI: 10.4316/AECE.2022.03005), Scopus Indexed; WoS indexed
6. V.Rajini, Lavanya (scientist NIWE), "Comparative analysis of Phasor estimation techniques for PMU applications", International Journal of Physics September 2022, ISSN ser 2325012010, DOI <https://iopscience.iop.org/article/10.1088/1742-6596/2325/1/012010>, indexed in Scopus.
7. Mahadevan J, Rengaraj R , Bhuvanesh A, "Applications of continuous ant colony optimization and multi-objective hybridized differential evolution for the best location of microcontroller-built FACTS techniques", International Journal Neuro Quantology, September 2022, Volume 20, pp 6419, ISSN 1303-5150, DOI doi:10.14704/nq.2022.20.8.NQ44666, Impact factor 0.413 indexed in Scopus
8. Tamilselvi Selvaraj, Ramasubbu Rengaraj, GiriRajanbabu Venkatakrishnan, Soundhariya Ganesan Soundararajan, "Environmental Fault Diagnosis of Solar Panels Using Solar Thermal Images in Multiple Convolutional Neural Networks", International Journal International Transactions on Electrical Energy Systems September 2022, Volume , pp , ISSN , DOI <https://doi.org/10.1155/2022/2872925>, Impact factor 2.639 indexed in WOS/TR/SD.
9. Madhumitha, S., Sudiksha, R., Seyezhai, R., Umarani, D., Sujatha, R, "Binary Decision Diagram Model Based Reliability Prediction of PV Powered Quasi Z-Source Inverter", International Journal Lecture Notes in Mechanical Engineering, Springer ,[https://doi.org/10.1007/978-981-19-3467-4\\_9](https://doi.org/10.1007/978-981-19-3467-4_9) October 2022, Volume , pp 137, ISSN 978- 981-19-3466-7, DOI ,[https://doi.org/10.1007/978-981-19-3467-4\\_9](https://doi.org/10.1007/978-981-19-3467-4_9), Impact factor 0.19. indexed in Scopus
10. Makkapati, S., Seyezhai, R., Sridhar, S., Srikirthi, S., Sriram, B., Vikram, V, " Design and Simulation of Boost Integrated Half-Bridge LLC Resonant Converter for LED Applications",

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11. Seyezhai, R., Harika, S., Sowmya, A., Ramakrishnan, N., Purushothaman, S ‘ “Simulation and Prototype Development of Solar Assisted Electric Trolley”, International Journal Lecture Notes in Mechanical Engineering, Springer, [https://doi.org/10.1007/978-981-19-3467-4\\_11](https://doi.org/10.1007/978-981-19-3467-4_11) October 2022, Volume , pp 395, ISSN 978- 981-19-3466-9, DOI [https://doi.org/10.1007/978-981-19-3467-4\\_24](https://doi.org/10.1007/978-981-19-3467-4_24), Impact factor 0.19. indexed in Scopus
12. Bharathi Sankar Ammayappan, A., Seyezhai, R , “Design and Development of Power Electronic Booster to Extend the Range of Supercapacitor-Powered Electric Bicycle “, International Journal Lecture Notes in Mechanical Engineering, Springer, [https://doi.org/10.1007/978-981-19-3467-4\\_12](https://doi.org/10.1007/978-981-19-3467-4_12) October 2022, Volume , pp 409, ISSN 978- 981-19-3466-10, DOI [https://doi.org/10.1007/978-981-19-3467-4\\_25](https://doi.org/10.1007/978-981-19-3467-4_25), Impact factor 0.19. indexed in Scopus
13. Dr. R. Ramaprabha, ASSP/EEE., Karthik Rajan, C., Niranjana, R., Kalpesh, J. UG Students’ “Modeling Methodology of Flywheel Energy Storage System for Microgrid Applications”, International Journal Recent Advances in Energy Technologies (ISBN: 978-981-19-3467-4). October 2022, Volume Edition 1, pp 191-204, ISSN Lecture Notes in Mechanical Engineering. Springer, Singapore, In: Narasimhan, N.L., Bourouis, M., Raghavan, V. (eds) , (e-ISSN: 2195-4364; Print ISSN: 2195-4356), DOI [https://doi.org/10.1007/978-981-19-3467-4\\_12](https://doi.org/10.1007/978-981-19-3467-4_12) , Impact factor 0.4 indexed in Scopus
14. Dr. R. Ramaprabha, ASSP/EEE., N. Ramya Krishnan, PG student, “31-Level RCC Multilevel Inverter for Photovoltaic System Interfacing”, online on Sep 30, 2022. in International Journal Recent Advances in Energy Technologies (ISBN: 978- 981-19-3467-4). October 2022, Volume Edition 2, pp 109-121, ISSN Lecture Notes in Mechanical Engineering. Springer, Singapore, In: Narasimhan, N.L., Bourouis, M., Raghavan, V. (eds) , (e-ISSN: 2195-4364; Print ISSN: 2195-4356), DOI [https://doi.org/10.1007/978-981-19-3467-4\\_7](https://doi.org/10.1007/978-981-19-3467-4_7) , Impact factor 0.4 indexed in Scopus.
15. Dr. R. Ramaprabha, ASSP/EEE, E. Oliviya Joselin Komagal, PG student, “An Extended Boost Topology of Z-Source Inverter Suitable for PV Interfacing – online on Sep 30, 2022, International Journal Recent Advances in Energy Technologies (ISBN: 978-981-19-3467-4). October 2022, Volume Edition 3, pp 95-107, ISSN Lecture Notes in Mechanical Engineering. Springer, Singapore, In: Narasimhan, N.L., Bourouis, M., Raghavan, V. (eds) , (e-ISSN: 2195-4364; Print ISSN: 2195-4356), DOI [https://doi.org/10.1007/978-981-19-3467-4\\_6](https://doi.org/10.1007/978-981-19-3467-4_6) , Impact factor 0.4 indexed in Scopus.
16. P. Sharmila, M. Senthilkumaran, J. Baskaran , C. Nayanatara , “Heuristic DRP-DG optimization strategy adopted for maximizing total social welfare in the real time Indian utility network in International Journal IET Renewable Power Generation October 2022, Volume 16, pp 3092 - 3107, ISSN 1752-1424, DOI <http://dx.doi.org/10.1049/rpg2.12560>, Impact factor 3.034 indexed in WOS/TR/SD
17. Pon Ragothama Priya, P., Baskar, S., Tamil Selvi, S. Babulal, C.K , “Optimal Allocation of Distributed Generation Using Evolutionary Multi-objective Optimization”, International Journal of Electrical Engineering and Technology, Springer October 2022, Volume 1, pp 44579, ISSN : 1975-0102, DOI <https://doi.org/10.1007/s42835-022-01269-y>, Impact factor 1.528 indexed in WOS/TR/SD.
18. B. Lakshmi Prabha & R. Seyezhai, “Design and Implementation of Bridgeless AC/DC PFC SEPIC Converter with Valley fill circuit”, International Journal IOP Conference Series; Material Science

- and Engineering November 2022, Volume 1, pp , ISSN , DOI doi:10.1088/1757-899X/1258/1/012058, Impact factor 0.25 indexed in Scopus.
19. Manivannan Ragupathi and Rengaraj Ramasubbu, “Performance Prediction of Building Integrated Photovoltaic System Using Hybrid Deep Learning Algorithm”, International Journal Hindawi International Journal of Photoenergy November 2022, Volume 22, pp 44570, ISSN 1687-529X, DOI <https://doi.org/10.1155/2022/6111030>, Impact factor 2.113 indexed in WOS/TR/SD.
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  21. V. Thiyagarajan, “A mini review on recent advancements in inclined solar still”, International Journal Energy Report November 2022, Volume 8, pp , ISSN 2352-4857, DOI <https://doi.org/10.1016/j.egy.2022.09.174>, Impact factor 4.937 indexed in WOS/TR/SD
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  23. M.Sridhar and R.Seyezhai, “Design and Implementation of Single Stage SEPIC Integrated Parallel Ripple Cancellation Method for LED Lighting “, International Journal Advances in Electrical and Computer Engineering December 2022, Volume 22, pp-1582-7445, DOI 10.4316/AECE.2022.04005, Impact factor 2.5 indexed in WOS/TR/SD
  24. Hithu Anand , R.Rengaraj and G.R.Venkatakrishnan, “ A convenient demand response layout for energy efficient residential prosumers”, International Journal Earth and Environmental Science December 2022, Volume 11, ISSN-44914, pp-1755-1315, DOI doi:10.1088/1755-1315/1100/1/012019, Impact factor 0.45 indexed in Scopus
  25. V. Kamaraj, R. Rengaraj, G.R. Venkatakrishnan and Mrunal Deshpande, “Performance improvisation of 10 kW grid connected solar photovoltaic system - a case study”, International journal of Earth and Environmental Science December 2022, Volume 100, DOI 10.1088/1755-1315/1100/1/012010, Impact factor 0.45 indexed in Scopus.
  26. M. Devesh Raj, V. Thiyagarajan, N. B. Muthu Selvan & Dishore Shunmugham Vanaja, Amelioration of power quality in a solar PV fed grid-connected system using optimization-based selective harmonic elimination”, International Journal Electrical Engineering, September 2022, Volume , pp 2775, ISSN 1432-0487, DOI <https://doi.org/10.1007/s00202-022-01556-x>, Impact factor 1.63 indexed in WOS/TR/SD.
  27. Lakshmana Perumal Pattathurani, Subhransu S. Dash, Rajat K. Dwibedi, Mani Devesh Raj, “Harmonics Minimisation in Non-Linear Grid System Using an Intelligent Hysteresis Current Controller Operated from a Solar Powered ZETA Converter”, Sustainability, Volume 14, Issue 12, 2022, pp. 1-14. WOS/TR.
  28. B.S Nalina V. Kamaraj and M. Ramesh Babu , “Fault Detection and Identification Strategy Based on Luenberger Observer for Bidirectional Interleaved Switched—Capacitor DC—DC Converter Interfaced Microgrids”, Journal of Electrical Engineering & Technology Volume 17, issue 4, Pages: 2329 – 2338. WOS/TR.
  29. R. Seyezhai, S. Harika & A. Jawahar, “High Linear Voltage Gain in QZNC Through Synchronizing Switching Circuits”, Intelligent Automation & Soft Computing Vol.36, No.1, 2022. WOS/TR.

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- 31.L. Ananda Padmanaban & P. Saravanan’ “ Design, analysis and comparison of switched reluctance motors for electric vehicle application”, *Automatika Journal for Control, Measurement, Electronics, Computing and Communications*, <https://doi.org/10.1080/00051144.2022.2140388>
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- 36.M.Ramya, K K Nagarajan,”Investigation of Single Event Transients on RingFET using 3D TCAD Simulations”, *International Journal Silicon* February 2023, Volume 15, pp 875886, ISSN 18769918, DOI <https://doi.org/10.1007/s12633-022-02055-1>, Impact factor 2.941 indexed in WOS/TR/SD
- 37.Aravindan M, Chilambuchelvan A & Tamilselvi S,” A Supervised Model of Multivariable Control in Quadruple Tank System”, *International Journal Applied Artificial Intelligence*, Taylor and Francis February 2023, Volume 37, pp , ISSN 0883-9514, DOI <https://doi.org/10.1080/08839514.2023.2175107>, Impact factor 2.777 indexed in WOS/TR/SD
- 38.Sasikala PanneerSelvam, Susanta Kumar Pal, Premanand Venkatesh Chandramani, Srinivasan Raj ,” Single event performance of FED based SRAMs using numerical simulation” *International Journal Microelectronics Reliability*, Elsevier, March 2023, Volume 142, pp 114930, ISSN 262714, DOI <https://doi.org/10.1016/j.microrel.2023.114930>, Impact factor 1.589 indexed in WOS/TR/SD
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