

LIST OF JOURNAL PUBLICATIONS

2021-2022

1. R Rengaraj (ASSP/EEE), G R Venkatakrishnan (ASSP/EEE), S Shalini (Student/EEE), R Subitsha (Student/EEE), S Suganthi (Student/EEE) and Sushmita Carolyn (Student/EEE) "Identification and classification of faults in underground cables – A review" IOP Conf. Series: Materials Science and Engineering Vol. 1166, pp : 1-10, 2021 (Scopus Indexed)
<https://iopscience.iop.org/article/10.1088/1757-899X/1166/1/012018/meta>
2. Dr.R.Seyezhai,ASSP/EEE, Dr.D.Umarani, ASSP/EEE, Dhivya Sambasivan (PG Student) , "Comparative Evaluation of PI and Fuzzy Logic Controller for PV Grid-Tie Quasi Z-Source Multilevel Inverter", Mehran University Research Journal of Engineering and Technology, Vol. 40, No. 3, 465 - 473, pp 466-473, July 2021, Impact Factor : 0.18 (JCI 2020).
<https://publications.muett.edu.pk/index.php/muetrj/article/view/2151>
3. V.Rajini, Rama Ramkumar , " Mathematical model of alternate arm converter" Lect. Notes Electrical Eng., Vol. 783, ICDSMLA 2020, 978-981-16-3689-9, 499991_1_En, (Chapter 141) , Springer nature.
https://link.springer.com/chapter/10.1007/978-981-16-3690-5_141
4. Dr. V. Thiyagarajan, ASSP/EEE, "New Asymmetric 25-Level Inverter Topology with Reduced Switch Count" Lecture Notes in Electrical Engineering (Springer), ISSN:1876-1100, Vol. 707, (2021), pp. 67-74.
doi: https://doi.org/10.1007/978-981-15-8586-9_7.
5. Dr. V. Thiyagarajan, ASSP/EEE, " New Symmetric 9-Level Inverter Topology with Reduced Switch Count and Switching Pulse Generation Using Digital Logic Circuit" Lecture Notes in Electrical Engineering (Springer), ISSN:1876-1100, Vol. 707, (2021), pp. 249-257. doi: https://doi.org/10.1007/978-981-15-8586-9_23.
6. Kurinjimalar, L(Parttime research scholar)., Balaji, M(Associate Professor/EEE)., Prabhu, S. Umadevi R. "Analysis of Electromagnetic and Vibration Characteristics of a Spoke Type PMBLDC Motor" Journal of Electrical Engineering and Technology,vol.16,pp2647–2660,2021. <https://doi.org/10.1007/s42835-021-00807-4>(Clarivate Analytics impact factor:0.836)
7. K. R. Shanmugha Vadivu and R. Ramaprabha, ASSP/EEE, "Improved Steady State and Large Signal Transient Response of Three Level AC-DC Converter using Hysteresis Modulation Based SMC Under DCM" Revue Roumaine Des Sciences Techniques– Serie Electrotechnique et Energetique (ISSN / eISSN:0035-4066), Vol. 66, 2, pp. 85-90, Bucarest, Aug 2021 Indexed in Scopus & Web of Science (Thomson Reuters) and Inspec - The IET for indexing) IF -0.255.
<https://journal.iem.pub.ro/rrst-ee/article/view/53>
8. Dr.R.Seyezhai, ASSP/EEE & Ms.P.Suvetha(Passed out RA), "Design and Development of PV/FC Based Integrated Multilevel Inverter for Smart Grid", Lecture Notes in Electrical Engineering,Vol.764, August 2021,Impact Factor-1.4, doi - 10.1007/978-981-16-1299-2_17,SCOPUS Indexed.
https://link.springer.com/chapter/10.1007/978-981-16-1299-2_17
9. Kullan Murugesan, Senthil Kumaran Mahadevan, Anitha Roseline Johnson, "Simplified Logical Modulator for the Reduction of Common Mode Voltage in Alternating Current Drives." Journal of Power Electronics, Springer Science and Business Media LLC, September 10, 2021. vol 21, issue 11. pp.1680-1689 .

doi:10.1007/s43236-021-00303-y. Impact factor: 1.11. Web of Science.

- 10.S.Krishnaveni, V.Rajini, "Cascaded boost converter-based high-voltage pulse generator for pulsed electric field applications" Archives Of Electrical Engineering, vol. 70. no. 3, pp. 631-641, Sep. 2021. ISSN: 1427-4221, eISSN: 2300-2506. JCR – 0.24. DOI 10.24425/ae.2021.137578. Web of Science.
- 11.S.Tamilselvi, S Gunasundari, N Karuppiyah, Abdul Razak RK, S Madhusudan, Vikas, T Sathish, Mohammed Zubair C Ahamed, Asif Afzal, "A Review on Battery Modelling Techniques", Sustainability - MDPI Issue No: 13(18), Sep, 2021, pp: 10042. Indexed in SCI, Impact factor: 3.251. <https://www.mdpi.com/2071-1050/13/18/10042>
- 12.V Gowthambabu, M Deshpande, R Govindaraj, VK Nithesh Krishna, M Leela Charumathi, J Manish Kumar, MS Dhilip Vignesh, R Isaac Daniel, P Ramasamy, "Synthesis of anatase TiO₂ microspheres and their efficient performance in dye-sensitized solar cell", Journal of Materials Science: Materials in Electronics (2021), Volume 32, pp. 26306, October 2021. [ISSN:0957-4522 – Impact factor:2.220] <https://link.springer.com/article/10.1007/s10854-021-06923-1>
- 13.Sai Eswari G , R Pratig Ram , Vinay Joseph Govias , PS Sakthi Praneetha(UG students) , Dr. V. Rajini," COMPARISON OF TRANSFORMERLESS INVERTERS FOR PHOTOVOLTAIC APPLICATIONS" Vidyabharati International Interdisciplinary Research Journal (Special Issue) ISSN 2319-4979, Vol 19, pp 2593-2598.
- 14.S Anbuchandran (PT Scholar), R Rengaraj, A Bhuvanesh, M Karuppasamyandiyan, "A Multi-objective Optimum Distributed Generation Placement Using Firefly Algorithm", J. Electr. Eng. Technol. (2021). [ISSN- 1975-0102 / 2093-7423, Impact factor:1.296] <https://doi.org/10.1007/s42835-021-00946-8>,
- 15.Sathish Kumar K, Rengaraj R, VenkatakrishnanG.R., Chandramohan A., "Polymeric materials for electromagnetic shielding - A review", Material today Proceedings, Elsevier, Vol.47, No.15, 2021, pp 4925-4928, Scopus Indexed, SJIR 0.341 (No Pay). <https://www.sciencedirect.com/science/article/pii/S221478532102825X>
- 16.Giri Rajanbabu Venkatakrishnan,Ramasubbu Rengaraj,Nattamai Balasubramanian Prakash, "Optimally manage the energy between electric vehicle charging stations and electricity distribution system: A hybrid technique", International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, Vol. 35, No.1, 2021, pp29-44 [:ISSN 0894-3370 / 1099-1204]. <https://onlinelibrary.wiley.com/doi/epdf/10.1002/jnm.2944>
- 17.Sarumathi T(PG) , S.Devi(Full-time Research Scholar) ,Dr.R.Seyezhai," Design of Multiphase Boost Converter for Electric Vehicle Applications," Vidyabharati International Interdisciplinary Research Journal (Special Issue), ISSN 2319-4979, 2021.
- 18.V.Rajini, R.B. Jeyapradha," Optimal design of Minimal footprint high frequency transformer" SERBIAN JOURNAL OF ELECTRICAL ENGINEERING, Vol. 18, No. 3, October 2021, 303-320, scopus indexed DOI: <https://doi.org/10.2298/SJEE2103303B>
- 19.R.Seyezhai, M.Sridhar (Full-time research scholar) & S.Devi (Full-time research scholar) "Estimation of Switching Loss for Boost DC-DC Converter using Neural Networks" AMA Agricultural

Mechanization in Asia, Africa and Latin America, November 2021, ISSN : 00845841, Vol.52, Issue 01, pp.2745-2753, SCI Indexed Impact Factor : 0.17.
<https://www.shin-norinco.com/article/estimation-of-switching-loss-for-boost-dc-dc-converter-using-neural-networks>

20. Dr. R. Seyezhai, S. Devi, (full-time research scholar), "Impedance Source Inverter Topologies for Photovoltaic Applications – A Review,"), Volume 12, Issue 11, November 2021, pp. 73-85, ISSN Online: 0976-6553, 2021.(SCOPUS INDEXED), SJR Factor- 0.1
DOI: <https://doi.org/10.34218/IJEET>
21. A. Bharathi Sankar Ammaiyappan and R. Seyezhai, " Self-Powered Super-capacitor for Low Power Wearable device Applications," IOP Conf. Series: Earth and Environmental Science 850 012016,, 2021, SCOPUS INDEXED, SJR Factor : 0.179.
doi:10.1088/1755-1315/850/1/012016
22. Bharathi Sankar Ammaiyappan and R. Seyezhai " Comparative analysis of two-level and three-level multilevel inverter for electric vehicle application using BLDC motor drive," Circuit World, ISSN: 0305-6120, Dec 2021, Impact factor -0.875.
<https://www.emerald.com/insight/content/doi/10.1108/CW-08-2020-0186/full/html>
23. R. Leo, V. Vishwa Raj, E. Vishal, K. M. Vimalan, G. Dhanush and S. Soorya, " Energy management System using Multi Agent Systems with IoT and Machine learning" Journal of Physics: Conference Series , 1916 , (2021) 012013 ,IOP Publishing. doi:10.1088/1742-6596/1916/1/012013. Scopus.
24. Leo Raju , Vallaba Gurunath, Roshan darran, "IOT and Machine Learning based Building Energy Management" , Volume. 1, Issue.1, October 2021, Grenze journal name.
25. Leo Raju, T. Thivakar, Design of Intelligent Mirror System using IoT & AI, Volume. 1, Issue.1, October 2021, Grenze journal name.
26. Poovizhi Mani, Senthil Kumaran Mahadevan, Anitha Roseline Johnson & Murugesan Kullana (2022) "An optimized design modelling of PV integrated SEPIC-based four-switch inverter for sensorless PMBLDC motor control", *Automatika*, Vol: 63 Issue: 1, pp: 90- 101, DOI: 10.1080/00051144.2021.2008621. TR Indexed.
27. S. Gopalakrishnan and M. Senthil Kumaran "IIoT Framework Based ML Model to Improve Automobile Industry Product", *Journal of Intelligent Automation & Soft Computing*, 2022, vol.31, no.3, pp 1435 – 1439. DOI:10.32604/iasc.2022.020660, – Web of Science Indexed – Impact factor :1.647, ISSN: 1079-8587.
28. R. Seyezhai , M. Sridhar (Full-time research scholar), "Investigation of Single-stage AC-DC PFC LED Driver for Solid State street Lighting" AIP Conference Proceedings, 2022 (Accepted for Publication), Indexed in SCOPUS.
29. Leo Raju, T. Thivagar, "Performance Evaluation for Multiple Input Multiple Output systems with Lattice Reduction Aided Techniques" *IOP Science: Journal of Physics*.
30. Sutharsan V Mahadevan Balaji Swaminathan A., Ramachandran S (2016-2020 passed out UG Students) Lakshmanan M (Senior Scientist-CSIR-CEERI), "Electroencephalogram Signal Processing with Independent Component Analysis and Cognitive Stress Classification Using Convolutional Neural

Networks”, Proceedings of International Conference on Recent Trends in Computing. Lecture Notes in Networks and Systems 341, 275-292.Scopus.

31. Dr.S.Tamilselvi/ASSP/EEE, Abhishek (Passed out Chemical), Madhusudan Saranathan, Pa Hari Krishna Achuthan, R Adhitya Ravi (IV year EEE students) “Study of parameters affecting the aging of the transformer oil”, Materials Science Forum, Vol. 1048, pp 89-100, Jan 2022. (Internally Funded Student Project). ISSN: 1662-9752. SCOPUS INDEXED, Impact Score:0.55
DOI:10.4028/www.scientific.net/MSF.1048.89
32. Dr.R.Deepalaxmi, ASSP/EEE and Ms.S.Vijayalakshmi (full time research scholar), “ Effect of gamma irradiation on titanium dioxide-filled polymer composites in cable insulation applications” in Iranian Polymer Journal.(Springer) ,PP-1-12,DOI : 10.1007/s13726-022-01030-2, February 4, 2022. (Thomson Reuter indexed- Impact factor-1.899).
33. R.Seyezhai, D.Umarani and K.Thendral,” Implementation of Modified Boost Converter for Audio Amplifiers in Automotives”, AMA Agricultural Mechanization in Asia, Africa and Latin America, Volume 53, no 2, pp – 5497, Web of Science Indexed – Impact factor :0.23, ISSN – 845841, March 2022.
34. P. Shanmugapriya, M. Senthil Kumaran, J. Baskaran, C. Nayanatara, P. Sharmila, Ali M. Eltamaly,” Flexible Dispatch Strategy Adopted by Optimizing DG Parameters in a Real Time Power System Distributed Network”, Journal of Electrical Engineering & Technology, volume 17, pp- 847-861, <https://doi.org/10.1007/s42835-021-00938-8> , Web of Science Indexed – Impact factor :1.15, ISSN – 1975-0102, March 2022.
35. Varshini, P. R., S. Baskar, S. Tamil Selvi,” Utopia constrained multi objective optimisation evolutionary algorithm”, Journal of Experimental & Theoretical Artificial Intelligence, Taylor and Francis, volume 1 issue 1, pp- 1-17, <https://doi.org/10.1080/0952813X.2022.2035826> Web of Science Indexed – Impact factor 2.34, ISSN:1362-3079, March 2022.
36. Tamil Selvi, .K., Karuppiah,S., Nandh Kishore, P.T., Ajith, V., Akshaya, M, “Design of a High-Frequency Transformer Using Genetic Algorithm”, Springer LNEE Lecture Notes in Electrical Engineering, volume 834, issue 1,pp-1-15, https://doi.org/10.1007/978-981-16-8484-5_51, Scopus Indexed, "ISBN:978-981-16-8484-5", March 2022.
37. S. Benisha and J. Anitha Roseline , “Interleaved Boost Integrated Flyback Converter for Power Factor Correction in Brushless DC Motor Drive”, Intelligent Automation & Soft Computing, volume 33, Issue 3 pp-1363-1378, DOI:10.32604/iasc.2022.023012,Web of Science Indexed, Impact factor 3.04, ISSN: 1079-8587 2326-005X, March 2022.
38. V. Rajini, V.S. Nagarajan, “Comparative analysis of Synchronous Reluctance Motor with different Permanent Magnet materials in International Journal Materials Today: Proceedings April 2022, Volume MATPR_31369. indexed in Scopus
39. R.Seyezhai & N.Hemalatha, “Implementation of fuzzy MPPT controller for PV based three phase modified capacitor assisted extended boost q ZSI”, International Journal Applied Nanoscience, Springer, 2022, April, ISSN 2190-5517

- 40.T. Divya, FT-RS/EEE and R. Ramaprabha, "Cascaded Multi-level Embedded type Switched Boost Inverter", International Journal IEEJ Transactions on Electrical and Electronic Engineering", April 2022, Volume 17, pp 539-543, ISSN 1931-4973 / 1931-4981, DOI <https://onlinelibrary.wiley.com/doi/10.1002/tee.23540>, Impact factor 0.752 indexed in WOS/TR/SD.
- 41.V. Thiyagarajan, "Electrical and Mechanical Characteristics Assessment of Wind Turbine System Employing Acoustic Sensors and Matrix Converter", International Journal Sustainability April 2022, Volume 14, pp 44585, ISSN 2071-1050, DOI <https://doi.org/10.3390/su14084404>, Impact factor 3.251 indexed in WOS/TR/SD
- 42.V. Thiyagarajan , "A Novel Optimization Algorithm for Modifying the Parameter Unit of Solar PV Cell in International Journal International Journal of Photo energy", April 2022, Volume 22, pp 44571, ISSN 1687-529X, DOI <https://doi.org/10.1155/2022/5240115>, Impact factor 2.113 indexed in WOS/TR/SD
- 43.R.Seyezhai & R.Sasikala, "Efficient Supply Current Control Strategies for Bridgeless Interleaved AC-DC Converter", International Journal of Computer Systems Science and Engineering, Vol.43, No.1, 2022, pp.175-191. DOI:10.32604/csse.2022. 022386, WOS Indexed, IF:1.486, May 2022, Volume 43.
- 44.R.Seyezhai &S.Devi, "Comparative analysis of Si, SiC and GaN based quasi impedance source inverter" International Journal Materials Today Proceedings, Elsevier, June 2022, Volume 62, pp 787.
- 45.R. S. Preethishri, J. Anitha Roseline, K. Murugesan and M. Senthil Kumaran, " Optimized Power Factor Correction for High Speed Switched Reluctance Motor" International Journal Intelligent Automation & Soft Computing June 2022, Volume 35, pp 997 to 1014, DOI <https://doi.org/10.32604/iasc.2023.025510>, Impact factor indexed in WOS/TR/SD
- 46.V. Rajini. and Amutha W., M. (2022), "Stability analysis of two port renewable energy interface for telecom applications", Circuit World, <https://doi.org/10.1108/CW-12-2021-0303> , WOS indexed.