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### ***List of Publications:***

1. Dynamic adaptability of model predictive control for power converters in inverter dominated microgrids, BR Warriar, A Vijayakumari, SK Kottayil - Journal of King Saud University-Engineering Sciences, 2020.
2. Design of Microgrids, A Vijayakumari - Smart Microgrids, 2020.
3. A non-iterative MPPT of PV array with online measured short circuit and open circuit quantities, A Vijayakumari - Journal of King Saud University-Engineering Sciences, 2020.
4. High Efficiency Control with Optimum Speed Prediction for Interior Permanent Magnet Synchronous Motor in Electric Vehicle applications, PA Ajithkumar, A Vijayakumari - 2020 Fourth International Conference on Computing Methodologies and Communication (ICCMC), 2020.
5. Enhanced dynamic performance in grid tied bidirectional converter with direct power model predictive control, BR Warriar, A Vijayakumari, SK Kottayil - International Journal of Power Electronics, 2020.
6. Hybrid Energy Storage System for Electric Vehicle Using Battery and Ultracapacitor, A Vijayakumari - Advances in Electrical and Computer Technologies, 2020.
7. Performance Evaluation of Model Predictive Current Controlled Grid Tied Converter for Sampling Frequency Variations, BR Warriar, A Vijayakumari, SK Kottayil - International Journal on Electrical Engineering and Informatics, 2019.
8. Regenerative Braking Control of Induction Motor in Electric Vehicles for Optimal Energy Recovery, K Gurunath, A Vijayakumari - International Conference on Intelligent Computing, Information and Control Systems, 2019.
9. Development of a Comprehensive MPPT for grid-connected wind turbine driven PMSG, SK Kottayil - WiEn, 2019.
10. An Alternative Approach for Harmonic Measurements in Distribution Systems with Empirical Wavelet Transform, S Swathika, C Vinodhraj, A Vijayakumari - Microelectronics, Electromagnetics and Telecommunications, 2019.
11. Control of Grid Tied Solar Inverter with Low Voltage Ride Through, M Yacob, A Vijayakumari - 2018 15th IEEE India Council International Conference (INDICON), 2018.
12. Field oriented control of surface mount permanent magnet synchronous machine with non linear observer for continuous rotor position estimation, V Shah, A Vijayakumari - 2018 3rd International Conference for Convergence in Technology (I2CT), 2018.
13. Thermal modeling of wide bandgap semiconductor devices for high frequency power converters, S Sharath Sundar Ram, A Vijayakumari - MS&E, 2018.
14. Virtual inertia control for transient active power support from DFIG based wind electric system View Document, S.R Mohanrajan C. M. Deepak, A Vijayakumari, International

Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), 2017.

15. Wireless Power Transfer System with Quasi Z-Source inverter, J Jachak, A Vijayakumari - International Journal of Pure and Applied Mathematics, 2018.
16. Thermal modeling of wide bandgap semiconductor devices for high frequency power converters, SS Ram, A Vijayakumari - IOP Conference Series: Materials Science and Engineering, 2018.
17. Regression based-programmable optimal controller for induction machine, V Shah, A Vijayakumari - International Conference on Technological Advancements in Power and Energy (TAP Energy), 2017.
18. Power balancing in autonomous micro grid with variable speed pump, SR Mohanrajan, A Vijayakumari, SK Kottayil - 2017 IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI), 2017.
19. Virtual inertia control for transient active power support from DFIG based wind electric system, CM Deepak, A Vijayakumari, SR Mohanrajan - 2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), 2017.
20. Single stage grid connected solar micro-inverter with two level fuzzy logic MPPT controller, N Aarthi, A Vijayakumari, KCS Thampatty, TNP Nambiar - 2017 International Conference on Circuit, Power and Computing Technologies (ICCPCT), 2017.
21. Model predictive current controller for grid connected PV inverter, A Gopakumar, A Vijayakumari - 2017 International Conference on Circuit, Power and Computing Technologies (ICCPCT), 2017.
22. Subharmonics detection in regular sampled Space Vector PWM and its mitigation with low computational dynamic sampling, A Vijayakumari, KV Anusha - 2016 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), 2016.
23. A reduced converter count solid state transformer for grid connected photovoltaic applications, V Ankita, A Vijayakumari – International Conference on Emerging Technological Trends (ICETT), 2016.
24. Renewable generators' capacity optimization for a micro-grid in rural feeder using HOMER— A case study, N Raghul, A Vijayakumari, SR Mohanrajan - International Conference on Emerging Technological Trends (ICETT), 2016.
25. Grid connected wind driven permanent magnet synchronous generator with high frequency solid state transformer, PV Sandeep, A Vijayakumari – International Conference on Emerging Technological Trends (ICETT), 2016.
26. A dual mode control for bridgeless SEPIC power factor correction rectifier, KK Khan, A Vijayakumari - International Conference on Emerging Technological Trends (ICETT), 2016.
27. The effect of sampling rates on the performance of a three phase PWM inverter and choice of appropriate sampling rates, KV Anusha, A Vijayakumari - 2016 Biennial International Conference on Power and Energy Systems: Towards Sustainable Energy (PESTSE), 2016.
28. Design and implementation of a fault emulator for LVRT capability testing of wind turbines, G Karthick, C Gokul, A Vijayakumari, P Sujith, A Suyampulingam, N Praveen Kumar, IET Digital Library - 2016.
29. Extraction of Photovoltaic (PV) Module's Parameters Using Only the Cell Characteristics for Accurate PV Modeling, A Vijayakumari, AT Devarajan, N Devarajan - Proceedings of the International Conference on Soft Computing Systems, 2016.
30. Power angle control of a single phase grid connected photovoltaic inverter for controlled power transfer

31. A Vijayakumari, AT Devarajan, SR Mohanrajan - Proceedings of the International Conference on Soft Computing Systems, 2016.