Name : Dr. K. VIJAYAKUMAR

Designation : Professor & Head

Department: Department of Electrical and Electronics Engineering

Name of the : SRM Institute of Science and Technology

Organization/Institution

Place : Chennai Pincode : 603203

Mobile No. : 9941540915

E - Mail : kvijay srm@rediffmail.com

Area os Specialization: Power electronics application to power systems

LIST OF PUBLICATIONS

JOURNALS:

- Ramasamy, P., Vijayakumar Krishnasamy, "Minimization of Common-Mode Voltage for Five-Phase Three-Level NPC Inverter Using SVPWM Strategy", Iranian Journal of Science and Technology Transactions of Electrical Engineering, 2020, Impact Factor: 0.6
- Lavanya, A., Jegatheesan, R., **Vijayakumar**, K., "Design of Novel Dual Input DC–DC Converter for Energy Harvesting System in IoT Sensor Nodes", Wireless Personal Communications, 2020. Impact Factor: 0.929
- Ranipriya, G., Jegatheesan, R., Vijayakumar, K, , "An integrated four port bidirectional dc-dc converter for photovoltaic energy harvesting systems", IEICE Electronics Express, 2019, 16(23), Impact Factor: 0.586
- Savari, G.F., **Vijayakumar Krishnasamy**, V., Sugavanam, V., Vakesan, K.," Optimal Charging Scheduling of Electric Vehicles in Micro Grids Using Priority Algorithms and Particle Swarm Optimization" Mobile networks and applications, 24(6), pp. 1835-1847,2019. Impact Factor:2.39
- Navamani, D., Vijayakumar, K., Manoraj, J." Reliability Analysis of High Gain Integrated DC-DC Topologies for Xenon Lamp Applications" Journal of Circuits, Systems and Computers, 28(10), 1950168, 2019. Impact Factor: 0.9
- Rajarajeswari, R., Suchitra, D., **Vijayakumar**, K., Jegatheesan, R." Analyzing Customer Outage Cost in a Microgrid" Mobile networks and applications, 24(6), pp. 1821-1834,2019. Impact Factor:2.39
- Sandeep, N., Ali, J.S.M., Yaragatti, U.R., **Vijayakumar**, K." Switched-Capacitor-Based Quadruple-Boost Nine-Level Inverter" IEEE Transactions on Power Electronics, 34(8),8637753, pp. 7147-7150,2019. Impact Factor: 7.224

- Navamani, J.D., Lavanya, A., **Vijayakumar**, K." Modified SEPIC converter with high boosting capability", Electronics Letters, 55(13), pp. 759-761, 2019. Impact Factor: 1.343
- ➤ Jagabar Sathik Mohamed Ali ; **Vijayakumar** K, "Compact Switched Capacitor Multilevel Inverter (CSCMLI) With Self Voltage Balancing and Boosting Ability", IEEE Transactions on Power Electronics, 2018, Impact Factor: 6.812
- N Sandeep; Jagabar Sathik; Udaykumar Yaragatti; Vijayakumar Krishnasamy, ",A Self-Balancing Five-Level Boosting Inverter With Reduced Components", IEEE Transactions on Power Electronics, 2018, Impact Factor: 6.812
- Navamani, D., **Vijayakumar**, K., Manoraj, J." Reliability Analysis of High Gain Integrated DC-DC Topologies for Xenon Lamp Applications" Journal of Circuits, Systems and Computers, 28(10), 1950168, 2019. Impact Factor: 0.9
- Rajarajeswari, R., Suchitra, D., **Vijayakumar**, K., Jegatheesan, R." Analyzing Customer Outage Cost in a Microgrid" Mobile networks and applications, 24(6), pp. 1821-1834,2019. Impact Factor:2.39
- Sandeep, N., Ali, J.S.M., Yaragatti, U.R., **Vijayakumar**, K." Switched-Capacitor-Based Quadruple-Boost Nine-Level Inverter" IEEE Transactions on Power Electronics, 34(8),8637753, pp. 7147-7150,2019. Impact Factor: 7.224
- Navamani, D., Vijayakumar, K., Manoraj, J." Reliability Analysis of High Gain Integrated DC-DC Topologies for Xenon Lamp Applications" Journal of Circuits, Systems and Computers, 28(10), 1950168, 2019. Impact Factor: 0.9
- Rajarajeswari, R., Suchitra, D., **Vijayakumar**, K., Jegatheesan, R." Analyzing Customer Outage Cost in a Microgrid" Mobile networks and applications, 24(6), pp. 1821-1834,2019. Impact Factor:2.39
- Sandeep, N., Ali, J.S.M., Yaragatti, U.R., **Vijayakumar**, K." Switched-Capacitor-Based Quadruple-Boost Nine-Level Inverter" IEEE Transactions on Power Electronics, 34(8),8637753, pp. 7147-7150,2019. Impact Factor: 7.224
- Navamani, J.D., Lavanya, A., **Vijayakumar**, K." Modified SEPIC converter with high boosting capability" Electronics Letters, 55(13), pp. 759-761, 2019. Impact Factor: 1.343
- ➤ Jagabar Sathik Mohamed Ali; Vijayakumar K, "Compact Switched Capacitor Multilevel Inverter (CSCMLI) With Self Voltage Balancing and Boosting Ability", IEEE Transactions on Power Electronics, 2018, Impact Factor: 6.812
- N Sandeep; Jagabar Sathik; Udaykumar Yaragatti; Vijayakumar Krishnasamy, ",A Self-Balancing Five-Level Boosting Inverter With Reduced Components", IEEE Transactions on Power Electronics, 2018, Impact Factor: 6.812

- ➤ Jagabar Sathik Mohamed Ali; Rasoul Shalchi Alishah; **Krishnasamy Vijayakumar**, "A New Generalized Multilevel Converter Topology with Reduced Voltage on Switches, Power losses and Components", IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, Impact Factor: 5.177
- ➢ Jagabar Sathik Mohamed Ali; Rasoul Shalchi Alishah; N. Sandeep; Seyed Hossein Hosseini; Ebrahim Babaei; Krishnasamy Vijayakumar; Udaykumar R. Yaragatti, "A New Generalized Multilevel Converter Topology Based on Cascaded Connection of Basic Units,IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, Impact Factor: 5.177
- Ramasamy, P., Krishnasamy, V., Sathik, M.A.J., Ali, Z.M., Aleem, S.H.E.A., "Three-Dimensional Space Vector Modulation Strategy for Capacitor Balancing in Split Inductor Neutral-Point Clamped Multilevel Inverters", Journal of Circuits, Systems and Computers, 27(14), 1850232, 2018. Impact Factor: 0.595
- Ramasamy, P., **Krishnasamy Vijayakumar**, "Common Mode Voltage Reduction Using 3D-SVPWM for 3-level CI-NPC Inverter with Hybrid Energy System", Electric Power Components and Systems, 46(4), pp. 391-405, 2018. Impact Factor: 1.144
- Mohd.Ali, J.S., **Krishnasamy Vijayakumar**, "An assessment of recent multilevel inverter topologies with reduced power electronics components for renewable applications" (2018) Renewable and Sustainable Energy Reviews, 82, pp. 3379-3399. Impact Factor: 9.184
- ➤ Palanisamy, R., Vijayakumar, K.," A hysteresis current controller for PV-wind hybrid source fed STATCOM system using cascaded multilevel inverters" (2018) Journal of Electrical Engineering and Technology, 13 (1), pp. 270-279. Impact Factor: 0.597
- Selvakumar, K., Vijayakumar, K., Boopathi, C.S.,"CSO based solution for load kickback effect in deregulated power systems,"Applied Sciences (Switzerland), 7 (11),2017. Impact Factor: 1.484
- Ramasamy, P., **Krishnasamy**, V,"A 3D-space vector modulation algorithm for three phase four wire neutral point clamped inverter systems as power quality compensator,"(2017) Energies,10 (11),Impact Factor: 2.676
- Selvakumar, K., Vijayakumar, K., Boopathi, C.S.,"Demand response unit commitment problem solution for maximizing generating companies' profit,"(2017) Energies, 10 (10), art. no. 1465. Impact Factor: 2.676
- ➤ Divya Navamani, J., **Vijayakumar**, K., Jegatheesan, R., Lavanya, A.," High step-up DC-DC converter by switched inductor and voltage multiplier cell for automotive applications," (2016) Journal of Electrical Engineering and Technology, 12 (1), pp. 189-197. Impact Factor: 0.597