PUBLICATIONS OF DR. K. VIJAYAKUMAR

- [1] Ramasamy, P., Krishnasamy, V., "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**
- [2] 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**
- [3] Ranipriya, G., Jegatheesan, R., Vijayakumar, K,, "An integrated four port bidirectional dcdc converter for photovoltaic energy harvesting systems", IEICE Electronics Express, 2019, 16(23), Impact Factor: 0.586
- [4] <u>Savari, G.F., Krishnasamy, V., Sugavanam, V., Vakesan, K.,</u>" 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**
- [5] 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**
- [6] 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**
- [7] 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**
- [8] 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
- [9] 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**
- [10] 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**
- [11] 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**

- [12] 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**
- [13] 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**
- [14] Navamani, D., Vijayakumar, K., Manoraj, J." Reliability Analysis of High Gain Integrated DC-DC Topologies for Xenon Lamp Applications" <u>Journal of Circuits</u>, <u>Systems and Computers</u>, 28(10), 1950168, 2019. **Impact Factor: 0.9**
- [15] <u>Rajarajeswari, R., Suchitra, D., Vijayakumar, K., Jegatheesan, R." Analyzing Customer Outage Cost in a Microgrid</u>" Mobile networks and applications, 24(6), pp. 1821-1834,2019. **Impact Factor:2.39**
- [16] <u>Sandeep, N.</u>, Ali, J.S.M., <u>Yaragatti, U.R.</u>, <u>Vijayakumar, K.</u>" <u>Switched-Capacitor-Based Quadruple-Boost Nine-Level Inverter</u>" <u>IEEE Transactions on Power Electronics</u>, 34(8),8637753, pp. 7147-7150,2019. **Impact Factor: 7.224**
- [17] 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**
- [18] 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**
- [19] 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**
- [20] 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**
- [21] 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**
- [22] 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

- [23] Ramasamy, P., Krishnasamy, V , "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**
- [24] Mohd.Ali, J.S., Krishnaswamy, V., "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
- [25] 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**
- [26] 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**
- [27] 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
- [28] 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**
- [29] 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