

Vijayakumar K

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

535
citations

10
h-index

20
g-index

129
ext. papers

807
ext. citations

1.6
avg, IF

4.91
L-index

#	Paper	IF	Citations
85	Compact Switched Capacitor Multilevel Inverter (CSCMLI) With Self-Voltage Balancing and Boosting Ability. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4009-4013	7.2	68
84	A Self-Balancing Five-Level Boosting Inverter With Reduced Components. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6020-6024	7.2	50
83	Switched-Capacitor-Based Quadruple-Boost Nine-Level Inverter. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 7147-7150	7.2	43
82	A New Generalized Multilevel Converter Topology Based on Cascaded Connection of Basic Units. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 2498-2512	5.6	42
81	Internet of Things based real-time electric vehicle load forecasting and charging station recommendation. <i>ISA Transactions</i> , 2020 , 97, 431-447	5.5	33
80	A New Generalized Multilevel Converter Topology With Reduced Voltage on Switches, Power losses, and Components. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 1094-1106	5.6	22
79	A novel cross-connected multilevel inverter topology for higher number of voltage levels with reduced switch count. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12381	2.2	16
78	Non-isolated high gain DC-DC converter by quadratic boost converter and voltage multiplier cell. <i>Ain Shams Engineering Journal</i> , 2018 , 9, 1397-1406	4.4	14
77	SVPWM control strategy for a three phase five level dual inverter fed open-end winding induction motor. <i>ISA Transactions</i> , 2020 , 102, 105-116	5.5	12
76	Multi-input DC-DC converter topologies-a review 2016 ,		11
75	Common-Ground-Type Five-Level Transformerless Inverter Topology With Full DC-Bus Utilization. <i>IEEE Transactions on Industry Applications</i> , 2020 , 1-1	4.3	9
74	Optimal Charging Scheduling of Electric Vehicles in Micro Grids Using Priority Algorithms and Particle Swarm Optimization. <i>Mobile Networks and Applications</i> , 2019 , 24, 1835-1847	2.9	9
73	Multiobjective Optimization Methods for Congestion Management in Deregulated Power Systems. <i>Journal of Electrical and Computer Engineering</i> , 2012 , 2012, 1-8	1.9	9
72	A 3D-Space Vector Modulation Algorithm for Three Phase Four Wire Neutral Point Clamped Inverter Systems as Power Quality Compensator. <i>Energies</i> , 2017 , 10, 1792	3.1	8
71	Demand Response Unit Commitment Problem Solution for Maximizing Generating Companies Profit. <i>Energies</i> , 2017 , 10, 1465	3.1	8
70	Optimal placement of capacitor in radial distribution system using PSO 2011 ,		8
69	Optimal Location and Sizing of DG for Congestion Management in Deregulated Power Systems. <i>Lecture Notes in Computer Science</i> , 2012 , 679-686	0.9	8

68	Generalized Cascaded Symmetric and Level Doubling Multilevel Converter Topology with Reduced THD for Photovoltaic Applications. <i>Electronics (Switzerland)</i> , 2019 , 8, 161	2.6	7
67	A SVPWM Control Strategy for Capacitor Voltage Balancing of Flying Capacitor Based 4-Level NPC Inverter. <i>Journal of Electrical Engineering and Technology</i> , 2020 , 15, 2639-2649	1.4	7
66	Modified SEPIC converter with high boosting capability. <i>Electronics Letters</i> , 2019 , 55, 759-761	1.1	6
65	An Adaptive Resistance Perturbation Based MPPT Algorithm for Photovoltaic Applications. <i>IEEE Access</i> , 2020 , 8, 196890-196901	3.5	6
64	Common Mode Voltage Reduction Using 3D-SVPWM for 3-level CI-NPC Inverter with Hybrid Energy System. <i>Electric Power Components and Systems</i> , 2018 , 46, 391-405	1	6
63	Efficiency comparison of quadratic boost DC-DC converter in CCM and DCM 2015 ,		5
62	Optimal Placement of DG in Distribution System Using Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , 2013 , 639-647	0.9	5
61	A New 5-Level ANPC Switched Capacitor Inverter Topology for Photovoltaic Applications 2019 ,		5
60	Evolutionary algorithm based control strategy for enhanced operation of multifunction grid connected converters. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 36, 4461-4478	1.6	4
59	Optimal Dynamic Scheduling of Electric Vehicles in a Parking Lot Using Particle Swarm Optimization and Shuffled Frog Leaping Algorithm. <i>Energies</i> , 2020 , 13, 6384	3.1	4
58	Study on High Step-up DC-DC Converter with High Gain Cell for PV Applications. <i>Procedia Computer Science</i> , 2017 , 115, 731-739	1.6	4
57	Modelling and Analysis of Voltage Mode Controlled Luo Converter. <i>American Journal of Applied Sciences</i> , 2015 , 12, 766-774	0.8	4
56	High Step-up DC-DC Converter by Switched Inductor and Voltage Multiplier Cell for Automotive Applications. <i>Journal of Electrical Engineering and Technology</i> , 2017 , 12, 189-197	1.4	4
55	Minimization of Common-Mode Voltage for Five-Phase Three-Level NPC Inverter Using SVPWM Strategy. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2020 , 44, 1221-1232	1.9	4
54	Application of Sinusoidal Pulse Width Modulation Based Matrix Converter as Revolutionized Power Electronic Converter. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 9-17	0.2	3
53	Intelligent coordinated control for improved voltage and frequency regulation with smooth switchover operation in LV microgrid. <i>Sustainable Energy, Grids and Networks</i> , 2020 , 22, 100356	3.6	3
52	Three-Dimensional Space Vector Modulation Strategy for Capacitor Balancing in Split Inductor Neutral-Point Clamped Multilevel Inverters. <i>Journal of Circuits, Systems and Computers</i> , 2018 , 27, 1850232	0.9	3
51	A new symmetric multilevel converter topology with reduced voltage on switches and DC source 2018 ,		3

50	Comparison of high gain topologies of non-isolated dc-dc converters for fuel cell application 2013 ,		3
49	GPS & GSM Based Accident Detection And Auto Intimation. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2018 , 11, 356	1.6	3
48	Smart soil monitoring and water conservation using irrigation on technology. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2020 , 19, 99	1.6	3
47	Unified power quality conditioner with reduced switch topology for distributed networks. <i>Wireless Networks</i> , 2021 , 27, 909-923	2.5	3
46	Minimization of Common-Mode Voltage of Three-Phase Five-Level NPC Inverter Using 3D Space Vector Modulation. <i>Journal of Circuits, Systems and Computers</i> , 2020 , 29, 2050229	0.9	2
45	Reliability study of high gain DC-DC converters based on RRPP I-IIA configuration for shipboard power system. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2018 , 43, 1	1	2
44	Power Loss Minimization by the Placement of DG in Distribution System Using PSO. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 497-504	0.4	2
43	Optimal location of multiple TCSCs for congestion management 2013 ,		2
42	CSO Based Solution for Load Kickback Effect in Deregulated Power Systems. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1127	2.6	2
41	A versatile control scheme for UPQC for Power Quality Improvement 2011 ,		2
40	Power Loss Minimization by the Placement of DG in Distribution System Using GA. <i>Lecture Notes in Computer Science</i> , 2012 , 259-266	0.9	2
39	A new method for locating TCSC for congestion management in deregulated electricity markets. <i>International Journal of Power and Energy Conversion</i> , 2009 , 1, 313	0.4	2
38	A Hybrid Genetic Algorithm for Optimal Power Flow Incorporating FACTS Devices 2007 ,		2
37	A survey on power management strategies of hybrid energy systems in microgrid. <i>International Journal of Electrical and Computer Engineering</i> , 2020 , 10, 1667	1.4	2
36	SVPWM for 3-phase 3-level Neutral Point Clamped Inverter Fed Induction Motor Control. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2018 , 9, 703	1.6	2
35	Voltage Profile Improvement using DG in Reconfigured Distribution System. <i>International Journal of Control and Automation</i> , 2015 , 8, 393-410	1.9	2
34	Unmanned and autonomous ground vehicle. <i>International Journal of Electrical and Computer Engineering</i> , 2019 , 9, 4466	1.4	2
33	Performance analysis of coupled inductor based Quadratic boost converter 2016 ,		2

32	Design of Novel Dual Input DCDC Converter for Energy Harvesting System in IoT Sensor Nodes. <i>Wireless Personal Communications</i> , 2021 , 117, 2793-2808	1.9	2
31	Experimental and numerical analysis on SVPWM based grid connected photovoltaic system. <i>Materials Today: Proceedings</i> , 2021 , 45, 1583-1590	1.4	2
30	Investigation of Adaptive Droop Control Applied to Low-Voltage DC Microgrid. <i>Energies</i> , 2021 , 14, 5356	3.1	2
29	Implementation of four dimensional space vector modulation for five phase voltage source inverter. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 2891-2898	4.4	2
28	Development of Control Techniques Using Modified Fuzzy Based SAPF for Power Quality Enhancement. <i>IEEE Access</i> , 2021 , 9, 68396-68413	3.5	2
27	Analyzing Customer Outage Cost in a Microgrid. <i>Mobile Networks and Applications</i> , 2019 , 24, 1821-1834	2.9	1
26	Performance analysis of triple port DC-DC converter for energy harvesting systems 2019 ,		1
25	Transformerless three-phase Z-source four-wire voltage source inverter-fed grid-connected PV system. <i>International Journal of Ambient Energy</i> , 2020 , 1-9	2	1
24	Three-phase 3-level Z-source NPC inverter using modified 3D-space vector modulation. <i>International Journal of Ambient Energy</i> , 2020 , 1-8	2	1
23	Power electronic interface (PEI) based power flow control for micro grid environment - a review 2016 ,		1
22	An integrated four port bidirectional dc-dc converter for photovoltaic energy harvesting systems. <i>IEICE Electronics Express</i> , 2019 , 16, 20190495-20190495	0.5	1
21	Reactive Power Control and Neutral Current Elimination of Four Wire Five Level NPC Inverter based STATCOM using 3D-SVPWM Technique. <i>Journal of Electrical Engineering and Technology</i> , 2021 , 16, 2083-2097	1.4	1
20	A hysteresis space vector modulation for interleaved Vienna rectifier fed 3-level neutral point clamped inverter system. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12983	2.2	1
19	Shuffled Frog Leaping Algorithm (SFLA) for Short Term Optimal Scheduling of Thermal Units with Emission Limitation and Prohibited Operational Zone (POZ) Constraints. <i>Indian Journal of Science and Technology</i> , 2016 , 9,	1	1
18	Reliability Analysis of High Gain Integrated DCDC Topologies for Xenon Lamp Applications. <i>Journal of Circuits, Systems and Computers</i> , 2019 , 28, 1950168	0.9	1
17	Reliability and performance analysis of a high step-up DCDC converter with a coupled inductor for standalone PV application. <i>International Journal of Ambient Energy</i> , 2020 , 41, 1327-1335	2	1
16	Reliability and component analysis of voltage-lift quadratic boost converter for xenon lamps. <i>Materials Today: Proceedings</i> , 2021 , 34, 437-441	1.4	1
15	Hybrid Energy Source Fed Fuzzy-Based SVPWM for 5-Level NPC Inverter with Grid Connected System. <i>Journal of Circuits, Systems and Computers</i> , 2021 , 30, 2150180	0.9	1

14	Hybrid Multilevel Inverter Topology With Reduced Part Count 2018 ,		1
13	Non-isolated high gain DC-DC converter for smart grid- A review. <i>Journal of Physics: Conference Series</i> , 2018 , 1000, 012061	0.3	1
12	Switched-Capacitor-Based Three-Phase Five-Level Inverter Topology With Reduced Components 2018 ,		1
11	Optimal Scheduling and Economic Analysis of Hybrid Electric Vehicles in a Microgrid. <i>International Journal of Emerging Electric Power Systems</i> , 2018 , 19,	1.4	1
10	A Comparative Analysis of Hysteresis Current Control SVM and 3D-SVM for 3-Level NPC Inverter. <i>Journal of Circuits, Systems and Computers</i> , 2230002	0.9	1
9	Optimal Operation Management of Transmission System with Fuel Cell Power Plant Using PSO. <i>Lecture Notes in Computer Science</i> , 2013 , 652-661	0.9	0
8	A new space vector pulse width modulated transformer less single-phase unified power quality conditioner. <i>Materials Today: Proceedings</i> , 2021 , 45, 1750-1756	1.4	0
7	Expandable transformer-less high-gain dc/dc converter based on quasi-Z source and multiplier cells. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2021 , 46, 1	1	0
6	Efficiency Modeling of High Gain DC-DC Converter for Renewable Energy Application. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 67-81	0.2	
5	Digitized droop control of a high gain primitive converter. General performance analysis for smart city lighting application. <i>Computational Intelligence</i> , 2021 , 37, 1405-1414	2.5	
4	A Review of Energy Management Control Schemes for Energy Harvesting Systems. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 1315-1322	0.2	
3	A Family of Extendable Multitudinous Source DC-DC Converter with High Gain for Microgrid. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 1065-1072	0.2	
2	Effect of pole zero location on system dynamics of boost converter for micro grid. <i>Journal of Physics: Conference Series</i> , 2018 , 1000, 012058	0.3	
1	Dynamic Analysis and Reduced- Order Modeling Techniques for Power Converters in DC Microgrid 2022 , 241-272		