

# Vijayakumar K

## List of Publications by Year in Descending Order

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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	Dynamic Analysis and Reduced- Order Modeling Techniques for Power Converters in DC Microgrid <b>2022</b> , 241-272		
84	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> , <b>2021</b> , 16, 2083-2097	1.4	1
83	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> , <b>2021</b> , 31, e12983	2.2	1
82	Reliability and component analysis of voltage-lift quadratic boost converter for xenon lamps. <i>Materials Today: Proceedings</i> , <b>2021</b> , 34, 437-441	1.4	1
81	Design of Novel Dual Input DCDC Converter for Energy Harvesting System in IoT Sensor Nodes. <i>Wireless Personal Communications</i> , <b>2021</b> , 117, 2793-2808	1.9	2
80	Experimental and numerical analysis on SVPWM based grid connected photovoltaic system. <i>Materials Today: Proceedings</i> , <b>2021</b> , 45, 1583-1590	1.4	2
79	A new space vector pulse width modulated transformer less single-phase unified power quality conditioner. <i>Materials Today: Proceedings</i> , <b>2021</b> , 45, 1750-1756	1.4	0
78	Digitized droop control of a high gain primitive converter for General performance analysis for smart city lighting application. <i>Computational Intelligence</i> , <b>2021</b> , 37, 1405-1414	2.5	
77	Unified power quality conditioner with reduced switch topology for distributed networks. <i>Wireless Networks</i> , <b>2021</b> , 27, 909-923	2.5	3
76	A Review of Energy Management Control Schemes for Energy Harvesting Systems. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 1315-1322	0.2	
75	Hybrid Energy Source Fed Fuzzy-Based SVPWM for 5-Level NPC Inverter with Grid Connected System. <i>Journal of Circuits, Systems and Computers</i> , <b>2021</b> , 30, 2150180	0.9	1
74	A Family of Extendable Multitudinous Source DC-DC Converter with High Gain for Microgrid. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 1065-1072	0.2	
73	Expandable transformer-less high-gain dc/dc converter based on quasi-Z source and multiplier cells. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2021</b> , 46, 1	1	0
72	Investigation of Adaptive Droop Control Applied to Low-Voltage DC Microgrid. <i>Energies</i> , <b>2021</b> , 14, 5356	3.1	2
71	Implementation of four dimensional space vector modulation for five phase voltage source inverter. <i>Ain Shams Engineering Journal</i> , <b>2021</b> , 12, 2891-2898	4.4	2
70	Development of Control Techniques Using Modified Fuzzy Based SAPF for Power Quality Enhancement. <i>IEEE Access</i> , <b>2021</b> , 9, 68396-68413	3.5	2
69	Optimal Dynamic Scheduling of Electric Vehicles in a Parking Lot Using Particle Swarm Optimization and Shuffled Frog Leaping Algorithm. <i>Energies</i> , <b>2020</b> , 13, 6384	3.1	4

68	Transformerless three-phase Z-source four-wire voltage source inverter-fed grid-connected PV system. <i>International Journal of Ambient Energy</i> , <b>2020</b> , 1-9	2	1
67	Common-Ground-Type Five-Level Transformerless Inverter Topology With Full DC-Bus Utilization. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 1-1	4.3	9
66	SVPWM control strategy for a three phase five level dual inverter fed open-end winding induction motor. <i>ISA Transactions</i> , <b>2020</b> , 102, 105-116	5.5	12
65	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> , <b>2020</b> , 30, e12381	2.2	16
64	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> , <b>2020</b> , 29, 2050229	0.9	2
63	Three-phase 3-level Z-source NPC inverter using modified 3D-space vector modulation. <i>International Journal of Ambient Energy</i> , <b>2020</b> , 1-8	2	1
62	Intelligent coordinated control for improved voltage and frequency regulation with smooth switchover operation in LV microgrid. <i>Sustainable Energy, Grids and Networks</i> , <b>2020</b> , 22, 100356	3.6	3
61	A survey on power management strategies of hybrid energy systems in microgrid. <i>International Journal of Electrical and Computer Engineering</i> , <b>2020</b> , 10, 1667	1.4	2
60	Smart soil monitoring and water conservation using irrigation on technology. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , <b>2020</b> , 19, 99	1.6	3
59	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> , <b>2020</b> , 44, 1221-1232	1.9	4
58	A SVPWM Control Strategy for Capacitor Voltage Balancing of Flying Capacitor Based 4-Level NPC Inverter. <i>Journal of Electrical Engineering and Technology</i> , <b>2020</b> , 15, 2639-2649	1.4	7
57	An Adaptive Resistance Perturbation Based MPPT Algorithm for Photovoltaic Applications. <i>IEEE Access</i> , <b>2020</b> , 8, 196890-196901	3.5	6
56	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> , <b>2020</b> , 41, 1327-1335	2	1
55	Internet of Things based real-time electric vehicle load forecasting and charging station recommendation. <i>ISA Transactions</i> , <b>2020</b> , 97, 431-447	5.5	33
54	Analyzing Customer Outage Cost in a Microgrid. <i>Mobile Networks and Applications</i> , <b>2019</b> , 24, 1821-1834	2.9	1
53	Performance analysis of triple port DC-DC converter for energy harvesting systems <b>2019</b> ,		1
52	Switched-Capacitor-Based Quadruple-Boost Nine-Level Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 7147-7150	7.2	43
51	Evolutionary algorithm based control strategy for enhanced operation of multifunction grid connected converters. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2019</b> , 36, 4461-4478	1.6	4

50	Modified SEPIC converter with high boosting capability. <i>Electronics Letters</i> , <b>2019</b> , 55, 759-761	1.1	6
49	Optimal Charging Scheduling of Electric Vehicles in Micro Grids Using Priority Algorithms and Particle Swarm Optimization. <i>Mobile Networks and Applications</i> , <b>2019</b> , 24, 1835-1847	2.9	9
48	Generalized Cascaded Symmetric and Level Doubling Multilevel Converter Topology with Reduced THD for Photovoltaic Applications. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 161	2.6	7
47	An integrated four port bidirectional dc-dc converter for photovoltaic energy harvesting systems. <i>IEICE Electronics Express</i> , <b>2019</b> , 16, 20190495-20190495	0.5	1
46	Unmanned and autonomous ground vehicle. <i>International Journal of Electrical and Computer Engineering</i> , <b>2019</b> , 9, 4466	1.4	2
45	A New 5-Level ANPC Switched Capacitor Inverter Topology for Photovoltaic Applications <b>2019</b> ,		5
44	Compact Switched Capacitor Multilevel Inverter (CSCMLI) With Self-Voltage Balancing and Boosting Ability. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 4009-4013	7.2	68
43	A Self-Balancing Five-Level Boosting Inverter With Reduced Components. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 6020-6024	7.2	50
42	Reliability Analysis of High Gain Integrated DCDC Topologies for Xenon Lamp Applications. <i>Journal of Circuits, Systems and Computers</i> , <b>2019</b> , 28, 1950168	0.9	1
41	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> , <b>2019</b> , 7, 1094-1106	5.6	22
40	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> , <b>2019</b> , 7, 2498-2512	5.6	42
39	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> , <b>2018</b> , 27, 1850232	0.9	3
38	Non-isolated high gain DC-DC converter by quadratic boost converter and voltage multiplier cell. <i>Ain Shams Engineering Journal</i> , <b>2018</b> , 9, 1397-1406	4.4	14
37	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> , <b>2018</b> , 43, 1	1	2
36	A new symmetric multilevel converter topology with reduced voltage on switches and DC source <b>2018</b> ,		3
35	SVPWM for 3-phase 3-level Neutral Point Clamped Inverter Fed Induction Motor Control. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , <b>2018</b> , 9, 703	1.6	2
34	GPS & GSM Based Accident Detection And Auto Intimation. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , <b>2018</b> , 11, 356	1.6	3
33	Hybrid Multilevel Inverter Topology With Reduced Part Count <b>2018</b> ,		1

32	Non-isolated high gain DC-DC converter for smart grid- A review. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1000, 012061	0.3	1
31	Switched-Capacitor-Based Three-Phase Five-Level Inverter Topology With Reduced Components <b>2018</b> ,		1
30	Effect of pole zero location on system dynamics of boost converter for micro grid. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1000, 012058	0.3	
29	Optimal Scheduling and Economic Analysis of Hybrid Electric Vehicles in a Microgrid. <i>International Journal of Emerging Electric Power Systems</i> , <b>2018</b> , 19,	1.4	1
28	Common Mode Voltage Reduction Using 3D-SVPWM for 3-level CI-NPC Inverter with Hybrid Energy System. <i>Electric Power Components and Systems</i> , <b>2018</b> , 46, 391-405	1	6
27	A 3D-Space Vector Modulation Algorithm for Three Phase Four Wire Neutral Point Clamped Inverter Systems as Power Quality Compensator. <i>Energies</i> , <b>2017</b> , 10, 1792	3.1	8
26	Demand Response Unit Commitment Problem Solution for Maximizing Generating Companies Profit. <i>Energies</i> , <b>2017</b> , 10, 1465	3.1	8
25	Study on High Step-up DC-DC Converter with High Gain Cell for PV Applications. <i>Procedia Computer Science</i> , <b>2017</b> , 115, 731-739	1.6	4
24	CSO Based Solution for Load Kickback Effect in Deregulated Power Systems. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 1127	2.6	2
23	High Step-up DC-DC Converter by Switched Inductor and Voltage Multiplier Cell for Automotive Applications. <i>Journal of Electrical Engineering and Technology</i> , <b>2017</b> , 12, 189-197	1.4	4
22	Power electronic interface (PEI) based power flow control for micro grid environment - a review <b>2016</b> ,		1
21	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> , <b>2016</b> , 9,	1	1
20	Performance analysis of coupled inductor based Quadratic boost converter <b>2016</b> ,		2
19	Multi-input DC-DC converter topologies-a review <b>2016</b> ,		11
18	Efficiency comparison of quadratic boost DC-DC converter in CCM and DCM <b>2015</b> ,		5
17	Application of Sinusoidal Pulse Width Modulation Based Matrix Converter as Revolutionized Power Electronic Converter. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 9-17	0.2	3
16	Efficiency Modeling of High Gain DC-DC Converter for Renewable Energy Application. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 67-81	0.2	
15	Modelling and Analysis of Voltage Mode Controlled Luo Converter. <i>American Journal of Applied Sciences</i> , <b>2015</b> , 12, 766-774	0.8	4

14	Voltage Profile Improvement using DG in Reconfigured Distribution System. <i>International Journal of Control and Automation</i> , <b>2015</b> , 8, 393-410	1.9	2
13	Power Loss Minimization by the Placement of DG in Distribution System Using PSO. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 497-504	0.4	2
12	Optimal location of multiple TCSCs for congestion management <b>2013</b> ,		2
11	Comparison of high gain topologies of non-isolated dc-dc converters for fuel cell application <b>2013</b> ,		3
10	Optimal Operation Management of Transmission System with Fuel Cell Power Plant Using PSO. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 652-661	0.9	0
9	Optimal Placement of DG in Distribution System Using Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 639-647	0.9	5
8	Power Loss Minimization by the Placement of DG in Distribution System Using GA. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 259-266	0.9	2
7	Optimal Location and Sizing of DG for Congestion Management in Deregulated Power Systems. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 679-686	0.9	8
6	Multiobjective Optimization Methods for Congestion Management in Deregulated Power Systems. <i>Journal of Electrical and Computer Engineering</i> , <b>2012</b> , 2012, 1-8	1.9	9
5	A versatile control scheme for UPQC for Power Quality Improvement <b>2011</b> ,		2
4	Optimal placement of capacitor in radial distribution system using PSO <b>2011</b> ,		8
3	A new method for locating TCSC for congestion management in deregulated electricity markets. <i>International Journal of Power and Energy Conversion</i> , <b>2009</b> , 1, 313	0.4	2
2	A Hybrid Genetic Algorithm for Optimal Power Flow Incorporating FACTS Devices <b>2007</b> ,		2
1	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