

Mahajan Sagar Bhaskar

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.

47
papers

756
citations

16
h-index

26
g-index

62
ext. papers

1,256
ext. citations

3.3
avg, IF

4.93
L-index

#	Paper	IF	Citations
47	A Multilevel Inverter Topology Using Diode Half-Bridge Circuit with Reduced Power Component. <i>Energies</i> , 2021 , 14, 7249	3.1	4
46	The state-of-the-art of power electronics converters configurations in electric vehicle technologies 2021 , 1, 100001		7
45	Modelling, analysis, and implementation of a switched-inductor based DC/DC converter with reduced switch current stress. <i>IET Power Electronics</i> , 2021 , 14, 1504-1514	2.2	1
44	A Novel Modified Switched Inductor Boost Converter With Reduced Switch Voltage Stress. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 1275-1289	8.9	28
43	High Gain Switched-Inductor-Double-Leg Converter With Wide Duty Range for DC Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 9561-9573	8.9	7
42	Triple-Switch DC-to-DC Converter for High-Voltage Boost Application. <i>Revista. Lecture Notes in Electrical Engineering</i> , 2021 , 197-204	0.2	
41	Real-Time Implementation of Extended Kalman Filter Observer With Improved Speed Estimation for Sensorless Control. <i>IEEE Access</i> , 2021 , 9, 50452-50465	3.5	6
40	Non-Isolated DCDC Power Converter With High Gain and Inverting Capability. <i>IEEE Access</i> , 2021 , 9, 62084-62094	3.5	2094
39	Double stage converter with low current stress for low to high voltage conversion in nanogrid. <i>Energy Reports</i> , 2021 , 7, 5710-5721	4.6	2
38	Analysis and Investigation of Hybrid DCDC Non-Isolated and Non-Inverting Nx Interleaved Multilevel Boost Converter (Nx-IMBC) for High Voltage Step-Up Applications: Hardware Implementation. <i>IEEE Access</i> , 2020 , 8, 87309-87328	3.5	16
37	Implementation of Designed PV Integrated Controlled Converter System. <i>IEEE Access</i> , 2020 , 8, 100905-100915	3.5	10915
36	Non-Isolated High-Gain Triple Port DCDC Buck-Boost Converter With Positive Output Voltage for Photovoltaic Applications. <i>IEEE Access</i> , 2020 , 8, 113649-113666	3.5	34
35	Combined Harmonic Reduction and DC Voltage Regulation of A Single DC Source Five-Level Multilevel Inverter for Wind Electric System. <i>Electronics (Switzerland)</i> , 2020 , 9, 979	2.6	4
34	An Original Hybrid Multilevel DC-AC Converter Using Single-Double Source Unit for Medium Voltage Applications: Hardware Implementation and Investigation. <i>IEEE Access</i> , 2020 , 8, 71291-71301	3.5	7
33	Corrections to "An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter" [2019 147244-147255]. <i>IEEE Access</i> , 2020 , 8, 65351-65351	3.5	
32	EK "multilevel inverter" a minimal switch novel configuration for higher number of output voltage levels. <i>IET Power Electronics</i> , 2020 , 13, 2804-2815	2.2	3
31	Single-phase hybrid multilevel inverter topology with low switching frequency modulation techniques for lower order harmonic elimination. <i>IET Power Electronics</i> , 2020 , 13, 4117-4127	2.2	7

30	An improved hybrid PV-wind power system with MPPT for water pumping applications. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12210	2.2	14
29	A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. <i>IEEE Systems Journal</i> , 2020 , 14, 3334-3342	4.3	37
28	Triple-Mode Active-Passive Parallel Intermediate Links Converter With High Voltage Gain and Flexibility in Selection of Duty Cycles. <i>IEEE Access</i> , 2020 , 8, 134716-134727	3.5	7
27	Two-Tier Converter: A New Structure of High Gain DC-DC Converter with Reduced Voltage Stress 2020 ,		2
26	Novel Non-Isolated Quad-Switched Inductor Double-Switch Converter for DC Microgrid Application 2020 ,		4
25	Internet of things augmented a novel PSO-employed modified zeta converter-based photovoltaic maximum power tracking system: hardware realisation. <i>IET Power Electronics</i> , 2020 , 13, 2775-2781	2.2	29
24	New CUKBEPIC converter based photovoltaic power system with hybrid GSABSO algorithm employing MPPT for water pumping applications. <i>IET Power Electronics</i> , 2020 , 13, 2824-2830	2.2	42
23	. <i>IEEE Access</i> , 2020 , 8, 178130-178166	3.5	32
22	. <i>IEEE Access</i> , 2020 , 8, 161787-161804	3.5	1
21	Closed-Loop Control and Boundary for CCM and DCM of Nonisolated Inverting N-Multilevel Boost Converter for High-Voltage Step-Up Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2863-2874	8.9	22
20	High Gain Transformer-Less Double-Duty-Triple-Mode DC/DC Converter for DC Microgrid. <i>IEEE Access</i> , 2019 , 7, 36353-36370	3.5	47
19	Nonisolated Symmetrical Interleaved Multilevel Boost Converter With Reduction in Voltage Rating of Capacitors for High-Voltage Microgrid Applications. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7410-7424	4.3	20
18	2019 ,		3
17	A New Triple-Switch-Triple-Mode High Step-Up Converter With Wide Range of Duty Cycle for DC Microgrid Applications. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7425-7441	4.3	21
16	Investigations of AC Microgrid Energy Management Systems Using Distributed Energy Resources and Plug-in Electric Vehicles. <i>Energies</i> , 2019 , 12, 2834	3.1	6
15	A New Structure of High Voltage Gain SEPIC Converter for Renewable Energy Applications. <i>IEEE Access</i> , 2019 , 7, 89857-89868	3.5	36
14	A Hybrid Photovoltaic-Fuel Cell for Grid Integration With Jaya-Based Maximum Power Point Tracking: Experimental Performance Evaluation. <i>IEEE Access</i> , 2019 , 7, 82978-82990	3.5	75
13	An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter. <i>IEEE Access</i> , 2019 , 7, 147244-147255	3.5	15

12	Investigation for Performances Comparison PI, Adaptive PI, Fuzzy Speed Control Induction Motor for Centrifugal Pumping Application 2019 ,		5
11	New tri-switching state non-isolated high gain DCDC boost converter for microgrid application. <i>IET Power Electronics</i> , 2019 , 12, 2741-2750	2.2	17
10	Modified multilevel buckBoost converter with equal voltage across each capacitor: analysis and experimental investigations. <i>IET Power Electronics</i> , 2019 , 12, 3318-3330	2.2	12
9	Double Stage Double Output DCDC Converters for High Voltage Loads in Fuel Cell Vehicles. <i>Energies</i> , 2019 , 12, 3681	3.1	8
8	High gain three-state switching hybrid boost converter for DC microgrid applications. <i>IET Power Electronics</i> , 2019 , 12, 3656-3667	2.2	6
7	Reduction of Main-Grid Dependence in Future DC Micro-Grids Using Electric Springs 2019 ,		1
6	. <i>IEEE Access</i> , 2019 , 7, 10467-10477	3.5	81
5	An Original Transformer and Switched-Capacitor (T & SC)-Based Extension for DC-DC Boost Converter for High-Voltage/Low-Current Renewable Energy Applications: Hardware Implementation of a New T & SC Boost Converter. <i>Energies</i> , 2018 , 11, 783	3.1	38
4	2018 ,		2
3	DC-Transformer Modelling, Analysis and Comparison of the Experimental Investigation of a Non-Inverting and Non-Isolated Nx Multilevel Boost Converter (Nx MBC) for Low to High DC Voltage Applications. <i>IEEE Access</i> , 2018 , 6, 70935-70951	3.5	20
2	Hardware Implementation and a New Adaptation in the Winding Scheme of Standard Three Phase Induction Machine to Utilize for Multifunctional Operation: A New Multifunctional Induction Machine. <i>Energies</i> , 2017 , 10, 1757	3.1	0
1	Grid Synchronization of a Seven-Phase Wind Electric Generator Using d-q PLL. <i>Energies</i> , 2017 , 10, 926	3.1	15