

# Mahajan Sagar Bahskar

## List of Publications by Year in descending order

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231  
papers

5,160  
citations

117453

34  
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133063

59  
g-index

238  
all docs

238  
docs citations

238  
times ranked

3082  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Review on Renewable Energy Development, Challenges, and Policies of Leading Indian States With an International Perspective. IEEE Access, 2020, 8, 74432-74457.	2.6	328
2	An Experimental Estimation of Hybrid ANFIS-PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. IEEE Systems Journal, 2020, 14, 1218-1229.	2.9	230
3	COVID-19: Impact analysis and recommendations for power sector operation. Applied Energy, 2020, 279, 115739.	5.1	180
4	Fuzzy SVPWM-based inverter control realisation of grid integrated photovoltaic-wind system with fuzzy particle swarm optimisation maximum power point tracking algorithm for a grid-connected PV/wind power generation system: hardware implementation. IET Electric Power Applications, 2018, 12, 962-971.	1.1	124
5	A Hybrid Photovoltaic-Fuel Cell for Grid Integration With Jaya-Based Maximum Power Point Tracking: Experimental Performance Evaluation. IEEE Access, 2019, 7, 82978-82990.	2.6	117
6	Review on FRT solutions for improving transient stability in DFIG-WTs. IET Renewable Power Generation, 2018, 12, 1786-1799.	1.7	102
7	A New Structure of High Voltage Gain SEPIC Converter for Renewable Energy Applications. IEEE Access, 2019, 7, 89857-89868.	2.6	99
8	High Gain Transformer-Less Double-Duty-Triple-Mode DC/DC Converter for DC Microgrid. IEEE Access, 2019, 7, 36353-36370.	2.6	97
9	Non-Isolated High-Gain Triple Port DC-DC Buck-Boost Converter With Positive Output Voltage for Photovoltaic Applications. IEEE Access, 2020, 8, 113649-113666.	2.6	97
10	A Hybrid ANFIS-ABC Based MPPT Controller for PV System With Anti-Islanding Grid Protection: Experimental Realization. IEEE Access, 2019, 7, 103377-103389.	2.6	93
11	Improved Fault Ride Through Capability in DFIG Based Wind Turbines Using Dynamic Voltage Restorer With Combined Feed-Forward and Feed-Back Control. IEEE Access, 2017, 5, 20494-20503.	2.6	91
12	Improved fault ride through capability of DFIG based wind turbines using synchronous reference frame control based dynamic voltage restorer. ISA Transactions, 2017, 70, 465-474.	3.1	87
13	A Novel Modified Switched Inductor Boost Converter With Reduced Switch Voltage Stress. IEEE Transactions on Industrial Electronics, 2021, 68, 1275-1289.	5.2	86
14	COVID-19 Detection Based on Lung Ct Scan Using Deep Learning Techniques. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-13.	0.7	86
15	Diagnosis of Cervical Cancer based on Ensemble Deep Learning Network using Colposcopy Images. BioMed Research International, 2021, 2021, 1-15.	0.9	81
16	Improved Perturb and Observation Maximum Power Point Tracking Technique for Solar Photovoltaic Power Generation Systems. IEEE Systems Journal, 2021, 15, 3024-3035.	2.9	78
17	Design and Implementation of Seventeen Level Inverter With Reduced Components. IEEE Access, 2021, 9, 16746-16760.	2.6	76
18	New CUK-SEPIC converter based photovoltaic power system with hybrid GSA-PSO algorithm employing MPPT for water pumping applications. IET Power Electronics, 2020, 13, 2824-2830.	1.5	73

#	ARTICLE	IF	CITATIONS
19	Evaluation of Mathematical Model to Characterize the Performance of Conventional and Hybrid PV Array Topologies under Static and Dynamic Shading Patterns. <i>Energies</i> , 2020, 13, 3216.	1.6	73
20	A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. <i>IEEE Systems Journal</i> , 2020, 14, 3334-3342.	2.9	71
21	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.	1.6	69
22	Investigation on Sizing of Voltage Source for a Battery Energy Storage System in Microgrid With Renewable Energy Sources. <i>IEEE Access</i> , 2020, 8, 188861-188874.	2.6	64
23	A New Approach to Optimal Location and Sizing of DSTATCOM in Radial Distribution Networks Using Bio-Inspired Cuckoo Search Algorithm. <i>Energies</i> , 2020, 13, 4615.	1.6	57
24	Energy Cost Optimization of Hybrid Renewables Based V2G Microgrid Considering Multi Objective Function by Using Artificial Bee Colony Optimization. <i>IEEE Access</i> , 2020, 8, 62076-62093.	2.6	56
25	A Holistic Review of the Present and Future Drivers of the Renewable Energy Mix in Maharashtra, State of India. <i>Sustainability</i> , 2020, 12, 6596.	1.6	55
26	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.	1.5	54
27	EPAW: Efficient Privacy Preserving Anonymous Mutual Authentication Scheme for Wireless Body Area Networks (WBANs). <i>IEEE Access</i> , 2020, 8, 48576-48586.	2.6	54
28	Interleaved Multilevel Boost Converter With Minimal Voltage Multiplier Components for High-Voltage Step-Up Applications. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 12816-12833.	5.4	46
29	A Hybrid Moth-Flame Fuzzy Logic Controller Based Integrated Cuk Converter Fed Brushless DC Motor for Power Factor Correction. <i>Electronics (Switzerland)</i> , 2018, 7, 288.	1.8	44
30	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.	5.2	44
31	Study and Analysis of an Intelligent Microgrid Energy Management Solution with Distributed Energy Sources. <i>Energies</i> , 2017, 10, 1419.	1.6	39
32	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.	3.3	39
33	An efficient, robust optimization model for the unit commitment considering renewable uncertainty and pumped-storage hydropower. <i>Computers and Electrical Engineering</i> , 2022, 100, 107846.	3.0	39
34	Power Balancing Control for Grid Energy Storage System in Photovoltaic Applications—Real Time Digital Simulation Implementation. <i>Energies</i> , 2017, 10, 928.	1.6	38
35	Analysis and Investigation of Hybrid DC-DC Non-Isolated and Non-Inverting $N_x$ Interleaved Multilevel Boost Converter ( $N_x$ -IMBC) for High Voltage Step-Up Applications: Hardware Implementation. <i>IEEE Access</i> , 2020, 8, 87309-87328.	2.6	38
36	The state-of-the-art of power electronics converters configurations in electric vehicle technologies. <i>Electronics</i> , 2022, 11, 100001.		37

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37	Critical Review of Data, Models and Performance Metrics for Wind and Solar Power Forecast. IEEE Access, 2022, 10, 667-688.	2.6	36
38	Nonisolated Symmetrical Interleaved Multilevel Boost Converter With Reduction in Voltage Rating of Capacitors for High-Voltage Microgrid Applications. IEEE Transactions on Industry Applications, 2019, 55, 7410-7424.	3.3	35
39	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. IEEE Access, 2018, 6, 70935-70951.	2.6	34
40	New triâ€switching state nonâ€isolated high gain DCâ€DC boost converter for microgrid application. IET Power Electronics, 2019, 12, 2741-2750.	1.5	33
41	Novel Multi-Time Scale Deep Learning Algorithm for Solar Irradiance Forecasting. Energies, 2021, 14, 2404.	1.6	32
42	Modified SEPIC DC-to-DC boost converter with high output-gain configuration for renewable applications. , 2017, , .		31
43	A Hybrid PV-Battery System for ON-Grid and OFF-Grid Applicationsâ€Controller-In-Loop Simulation Validation. Energies, 2020, 13, 755.	1.6	31
44	Design and Real-Time Simulation of an AC Voltage Regulator Based Battery Charger for Large-Scale PV-Grid Energy Storage Systems. IEEE Access, 2017, 5, 25158-25170.	2.6	30
45	Infrared Thermography Based Defects Testing of Solar Photovoltaic Panel with Fuzzy Rule-Based Evaluation. Energies, 2020, 13, 1343.	1.6	30
46	A High Gain DC-DC Converter with Grey Wolf Optimizer Based MPPT Algorithm for PV Fed BLDC Motor Drive. Applied Sciences (Switzerland), 2020, 10, 2797.	1.3	29
47	A Generalized Multilevel Inverter Topology With Reduction of Total Standing Voltage. IEEE Access, 2020, 8, 168941-168950.	2.6	28
48	Investigation on the impacts of COVID-19 quarantine on society and environment: Preventive measures and supportive technologies. 3 Biotech, 2020, 10, 393.	1.1	28
49	Binary Hybrid Multilevel Inverter-Based Grid Integrated Solar Energy Conversion System With Damped SOGI Control. IEEE Access, 2020, 8, 37214-37228.	2.6	28
50	A Comprehensive Review on Sustainable Aspects of Big Data Analytics for the Smart Grid. Sustainability, 2021, 13, 13322.	1.6	27
51	A State-of-the-Art Review on Conducted Electromagnetic Interference in Non-Isolated DC to DC Converters. IEEE Access, 2020, 8, 2564-2577.	2.6	26
52	High Gain Switched-Inductor-Double-Leg Converter With Wide Duty Range for DC Microgrid. IEEE Transactions on Industrial Electronics, 2021, 68, 9561-9573.	5.2	26
53	Analysis of Fractional Order Sliding Mode Control in a D-STATCOM Integrated Power Distribution System. IEEE Access, 2021, 9, 70337-70352.	2.6	26
54	Broken rotor bar fault detection using Hilbert transform and neural networks applied to direct torque control of induction motor drive. IET Power Electronics, 2020, 13, 3328-3338.	1.5	26

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55	An improved hybrid PV&wind power system with MPPT for water pumping applications. International Transactions on Electrical Energy Systems, 2020, 30, e12210.	1.2	25
56	Single phase nine level inverter using single DC source supported by capacitor voltage balancing algorithm. IET Power Electronics, 2018, 11, 2319-2329.	1.5	24
57	A Sustainable Solar Photovoltaic Energy System Interfaced with Grid-Tied Voltage Source Converter for Power Quality Improvement. Electric Power Components and Systems, 2017, 45, 171-183.	1.0	23
58	Grid Synchronization of a Seven-Phase Wind Electric Generator Using d-q PLL. Energies, 2017, 10, 926.	1.6	23
59	A Review on Numerical Approach to Achieve Building Energy Efficiency for Energy, Economy and Environment (3E) Benefit. Energies, 2021, 14, 4487.	1.6	23
60	An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter. IEEE Access, 2019, 7, 147244-147255.	2.6	22
61	Trusted Simulation Using Proteus Model for a PV System: Test Case of an Improved HC MPPT Algorithm. Energies, 2020, 13, 1943.	1.6	22
62	A Modified Step-Up Converter with Small Signal Analysis-Based Controller for Renewable Resource Applications. Applied Sciences (Switzerland), 2020, 10, 102.	1.3	21
63	Analysis of Optimal Deployment of Several DGs in Distribution Networks Using Plant Propagation Algorithm. IEEE Access, 2020, 8, 175546-175562.	2.6	21
64	Prospects of Hybrid Renewable Energy-Based Power System: A Case Study, Post Analysis of Chipendeke Micro-Hydro, Zimbabwe. IEEE Access, 2021, 9, 73433-73452.	2.6	21
65	A modified high output-gain cuk converter circuit configuration for renewable applications " A comprehensive investigation. , 2017, , .		20
66	Experimental Investigations Conducted for the Characteristic Study of OM29 Phase Change Material and Its Incorporation in Photovoltaic Panel. Energies, 2020, 13, 897.	1.6	20
67	An Original Hybrid Multilevel DC-AC Converter Using Single-Double Source Unit for Medium Voltage Applications: Hardware Implementation and Investigation. IEEE Access, 2020, 8, 71291-71301.	2.6	20
68	A Practical Approach for Predicting Power in a Small-Scale Off-Grid Photovoltaic System using Machine Learning Algorithms. International Journal of Photoenergy, 2022, 2022, 1-21.	1.4	20
69	A novel non-isolated switched inductor floating output DC-DC multilevel boost converter for fuelcell applications. , 2014, , .		19
70	Hybrid non-isolated and non inverting Nx interleaved DC-DC multilevel boost converter for renewable energy applications. , 2016, , .		19
71	High gain threeâ€state switching hybrid boost converter for DC microgrid applications. IET Power Electronics, 2019, 12, 3656-3667.	1.5	19
72	Design and Development of Non-Isolated Modified SEPIC DC-DC Converter Topology for High-Step-Up Applications: Investigation and Hardware Implementation. Energies, 2020, 13, 3960.	1.6	19

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73	Performance assessment of free standing and building integrated grid connected photovoltaic system for southern part of India. Building Services Engineering Research and Technology, 2021, 42, 237-248.	0.9	19
74	Non isolated and non-inverting Cockcroft-Walton multiplier based hybrid 2Nx interleaved boost converter for renewable energy applications. , 2016, , .		18
75	Multistage switched inductor boost converter for renewable energy application. , 2017, , .		18
76	Performance Enhancement of PV System Configurations Under Partial Shading Conditions Using MS Method. IEEE Access, 2021, 9, 56630-56644.	2.6	18
77	A Novel Deep Learning Based Model for Tropical Intensity Estimation and Post-Disaster Management of Hurricanes. Applied Sciences (Switzerland), 2021, 11, 4129.	1.3	18
78	A Review on Effective Use of Daylight Harvesting Using Intelligent Lighting Control Systems for Sustainable Office Buildings in India. Sustainability, 2021, 13, 4973.	1.6	18
79	Switched Capacitor-Based 13L Inverter Topology for High-Frequency AC Power Distribution System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5883-5894.	3.7	18
80	A modified cascaded H-bridge multilevel inverter for solar applications. , 2014, , .		17
81	An Improved Multistage Switched Inductor Boost Converter (Improved M-SIBC) for Renewable Energy Applications: A key to Enhance Conversion Ratio. , 2018, , .		17
82	Modified multilevel buck-boost converter with equal voltage across each capacitor: analysis and experimental investigations. IET Power Electronics, 2019, 12, 3318-3330.	1.5	17
83	Forecasting of the SARS-CoV-2 epidemic in India using SIR model, flatten curve and herd immunity. Journal of Ambient Intelligence and Humanized Computing, 2020, , 1-9.	3.3	17
84	Real-Time Implementation of Extended Kalman Filter Observer With Improved Speed Estimation for Sensorless Control. IEEE Access, 2021, 9, 50452-50465.	2.6	17
85	A new intelligent adaptation mechanism of MRAS based on a genetic algorithm applied to speed sensorless direct torque control for induction motor. International Journal of Dynamics and Control, 2022, 10, 2095-2110.	1.5	17
86	4Nx Non-Isolated and Non-Inverting hybrid Interleaved Multilevel Boost Converter based on VLSm Cell and Cockcroft Walton voltage multiplier for renewable energy applications. , 2016, , .		16
87	Double Stage Double Output DC-DC Converters for High Voltage Loads in Fuel Cell Vehicles. Energies, 2019, 12, 3681.	1.6	16
88	Transformer-Less Boost Converter With Reduced Voltage Stress for High Voltage Step-Up Applications. IEEE Transactions on Industrial Electronics, 2022, 69, 1498-1508.	5.2	16
89	A New Hybrid Zeta-Boost Converter With Active Quad Switched Inductor for High Voltage Gain. IEEE Access, 2021, 9, 20022-20034.	2.6	16
90	An adaptive TS-fuzzy model based RBF neural network learning for grid integrated photovoltaic applications. IET Renewable Power Generation, 2022, 16, 3149-3160.	1.7	16

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91	Non-Isolated DC-DC Power Converter With High Gain and Inverting Capability. IEEE Access, 2021, 9, 62084-62092.	2.6	15
92	A novel asymmetric multilevel inverter with minimum number of switches for renewable power grid applications. , 2013, , .		14
93	Non-isolated dual output hybrid DC-DC multilevel converter for photovoltaic applications. , 2014, , .		14
94	A cascaded asymmetric multilevel inverter with minimum number of switches for solar applications. , 2014, , .		14
95	New 2LC-Y DC-DC converter topologies for high-voltage/low-current renewable applications: New members of X-Y converter family. , 2017, , .		14
96	Investigations of AC Microgrid Energy Management Systems Using Distributed Energy Resources and Plug-in Electric Vehicles. Energies, 2019, 12, 2834.	1.6	14
97	Novel Non-Isolated Quad-Switched Inductor Double-Switch Converter for DC Microgrid Application. , 2020, , .		14
98	Combined Harmonic Reduction and DC Voltage Regulation of A Single DC Source Five-Level Multilevel Inverter for Wind Electric System. Electronics (Switzerland), 2020, 9, 979.	1.8	14
99	Optimization of emission cost and economic analysis for microgrid by considering a metaheuristic algorithm-assisted dispatch model. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2022, 35, .	1.2	14
100	High-power DC-DC converter with proposed HSFNA MPPT for photovoltaic based ultra-fast charging system of electric vehicles. IET Renewable Power Generation, 0, , .	1.7	14
101	A novel high gain switched inductor multilevel buck-boost DC-DC converter for solar applications. , 2014, , .		13
102	L-L multilevel boost converter topology for renewable energy applications: A new series voltage multiplier L-L converter of XY family. , 2017, , .		13
103	A Hybrid Multilevel Inverter Scheme for Nine-Phase PPMIM Drive by Using Three-Phase Five-Leg Inverters. IEEE Transactions on Industrial Electronics, 2021, 68, 1895-1904.	5.2	13
104	Ceiling Fan Drivesâ€“Past, Present and Future. IEEE Access, 2021, 9, 44888-44904.	2.6	13
105	Spider Community Optimization Algorithm to Determine UPFC Optimal Size and Location for Improve Dynamic Stability. , 2021, , .		13
106	Intelligent optimization for charging scheduling of electric vehicle using exponential Harris Hawks technique. International Journal of Intelligent Systems, 2021, 36, 5816-5844.	3.3	13
107	A novel high gain DC-DC multilevel boost converter using voltage-lift switched-inductor cell. , 2014, , .		12
108	Optimized carrier based multilevel generated modified dual three-phase open-winding inverter for medium power application. , 2016, , .		12



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109	Transistor Clamped Five-Level Inverter using Non-Inverting Double Reference Single Carrier PWM Technique for photovoltaic applications. , 2017, , .		12
110	Assessing Finite Control Set Model Predictive Speed Controlled PMSM Performance for Deployment in Electric Vehicles. World Electric Vehicle Journal, 2021, 12, 41.	1.6	12
111	Single-phase hybrid multilevel inverter topology with low switching frequency modulation techniques for lower order harmonic elimination. IET Power Electronics, 2020, 13, 4117-4127.	1.5	12
112	Performance Evaluation of Solar-PV-Based Non-Isolated Switched-Inductor and Switched-Capacitor High-Step-Up Cuk Converter. Electronics (Switzerland), 2022, 11, 1381.	1.8	12
113	On the automated multiple liquid bottle filling system. , 2016, , .		11
114	A novel 2L-Y DC-DC converter topologies for high conversion ratio renewable application. , 2017, , .		11
115	Intelligence-Based Battery Management and Economic Analysis of an Optimized Dual-Vanadium Redox Battery (VRB) for a Wind-PV Hybrid System. Energies, 2018, 11, 2785.	1.6	11
116	Single-Phase Z <sub>AC</sub> -Source AC-AC Converter With High Buck and Boost Voltage Conversion Capability. IEEE Transactions on Industrial Electronics, 2020, 67, 9251-9259.	5.2	11
117	Triple-Mode Active-Passive Parallel Intermediate Links Converter With High Voltage Gain and Flexibility in Selection of Duty Cycles. IEEE Access, 2020, 8, 134716-134727.	2.6	11
118	Influence of a Proposed Switching Method on Reliability and Total Harmonic Distortion of the Quasi Z-Source Inverters. IEEE Access, 2020, 8, 33088-33100.	2.6	11
119	Identification of Water Hammering for Centrifugal Pump Drive Systems. Applied Sciences (Switzerland), 2020, 10, 2683.	1.3	11
120	Robust Queen Bee Assisted Genetic Algorithm (QBGA) Optimized Fractional Order PID (FOPID) Controller for Not Necessarily Minimum Phase Power Converters. IEEE Access, 2021, 9, 93331-93337.	2.6	11
121	Stability assessment and performance analysis of new controller for power quality conditioning in microgrids. International Transactions on Electrical Energy Systems, 2021, 31, e12891.	1.2	11
122	Field-Oriented Control of Five-Phase Induction Motor Fed From Space Vector Modulated Matrix Converter. IEEE Access, 2022, 10, 17996-18007.	2.6	11
123	A novel high gain buck-boost multilevel converter using double voltage-lift switched-inductor cell. , 2014, , .		10
124	A high gain modified SEPIC DC-to-DC boost converter for renewable energy application. , 2017, , .		10
125	Investigations on EMI Mitigation Techniques: Intent to Reduce Grid-Tied PV Inverter Common Mode Current and Voltage. Energies, 2019, 12, 3395.	1.6	10
126	Quality Management Practices of Food Manufacturers: A Comparative Study between Small, Medium and Large Companies in Malaysia. Sustainability, 2020, 12, 7725.	1.6	10



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127	Real-Time Processor-in-Loop Investigation of a Modified Non-Linear State Observer Using Sliding Modes for Speed Sensorless Induction Motor Drive in Electric Vehicles. <i>Energies</i> , 2020, 13, 4212.	1.6	10
128	Global Solar Insolation Estimation and Investigation: A Case Study of Various Nations and Cities. <i>IEEE Access</i> , 2021, 9, 88069-88084.	2.6	10
129	A novel non-isolated high step-up DC-DC converters for photovoltaic applications. , 2014, , .		9
130	A novel high gain floating output DC-DC multilevel boost converter for fuelcell applications. , 2014, , .		9
131	A novel high step-up multilevel boost converter using double voltage-lift switched-inductor cell. , 2014, , .		9
132	A novel sepic based dual output DC-DC converter for solar applications. , 2014, , .		9
133	Non isolated switched inductor SEPIC converter topologies for photovoltaic boost applications. , 2016, , .		9
134	Comparative study of photovoltaic based power converter topologies for pumping applications. , 2017, , .		9
135	A Novel Calculus Based Unipolar Double Reference Single Carrier PWM for Single Phase T-Multilevel Inverter with Under Modulation (<math>\delta</math>) for Renewable Energy Applications: Hardware Implementation. , 2018, , .		9
136	A New Voltage Doubler Based DC-DC 2LC <sub>m</sub> -Y Power Converter Topologies for High-Voltage/Low-Current Renewable Energy Applications. , 2018, , .		9
137	Layout optimisation algorithms and reliability assessment of wind farm for microgrid integration: A comprehensive review. <i>IET Renewable Power Generation</i> , 2021, 15, 2063-2084.	1.7	9
138	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.	1.5	9
139	A Multilevel Inverter Topology Using Diode Half-Bridge Circuit with Reduced Power Component. <i>Energies</i> , 2021, 14, 7249.	1.6	9
140	A novel high step-up DC-DC multilevel buck-boost converter using voltage-lift switched-inductor cell. , 2014, , .		8
141	A novel single phase multilevel inverter with single photovoltaic source and less number of switches. , 2014, , .		8
142	Control of High Gain Modified SEPIC Converter: A Constant Switching Frequency Modulation Sliding Mode Controlling Technique. , 2018, , .		8
143	Trinary Hybrid Cascaded H-Bridge Multilevel Inverter-Based Grid-Connected Solar Power Transfer System Supporting Critical Load. <i>IEEE Systems Journal</i> , 2021, 15, 4116-4125.	2.9	8
144	Double stage converter with low current stress for low to high voltage conversion in nanogrid. <i>Energy Reports</i> , 2021, 7, 5710-5721.	2.5	8

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145	A novel single phase advanced multilevel inverter with adjustable amplitude of voltage levels. , 2014, , .		7
146	A new multilevel inverter with fewer number of control switches. , 2015, , .		7
147	Five-phase five-level open-winding/star-winding inverter drive for low-voltage/high-current applications. , 2016, , .		7
148	A New DC-DC Multilevel Breed of XY Converter Family for Renewable Energy Applications: LY Multilevel Structured Boost Converter. , 2018, , .		7
149	Investigation for Performances Comparison PI, Adaptive PI, Fuzzy Speed Control Induction Motor for Centrifugal Pumping Application. , 2019, , .		7
150	Design of Boosted Multilevel DC-DC Converter for Solar Photovoltaic System. International Journal of Photoenergy, 2022, 2022, 1-23.	1.4	7
151	Efficient Multi-Phase Converter for E-Mobility. World Electric Vehicle Journal, 2022, 13, 67.	1.6	7
152	DC-DC current buck converter through duality approach and its DC transformer modelling for current based loads. , 2016, , .		6
153	Electric field analysis of extra high voltage (EHV) underground cables using finite element method. , 2017, , .		6
154	Analysis of high voltage-gain hybrid DC-DC power converter with RBFN based MPPT for renewable photovoltaic applications. , 2017, , .		6
155	Testing of low-voltage ride through capability compliance of wind turbines “ a review. International Journal of Ambient Energy, 2018, 39, 891-897.	1.4	6
156	L-L Converter for Fuel Cell Vehicular Power Train Applications: Hardware Implementation of Primary Member of X-Y Converter Family. , 2018, , .		6
157	Analysis of 132kV/33kV 15MVA power transformer dissolved gas using transport-X Kelman Kit through Duval's triangle and Roger's Ratio prediction. , 2018, , .		6
158	Two-Tier Converter: A New Structure of High Gain DC-DC Converter with Reduced Voltage Stress. , 2020, , .		6
159	Investigation of a Transistor Clamped T-Type Multilevel H-Bridge Inverter With Inverted Double Reference Single Carrier PWM Technique for Renewable Energy Applications. IEEE Access, 2020, 8, 161787-161804.	2.6	6
160	Implementation of Designed PV Integrated Controlled Converter System. IEEE Access, 2020, 8, 100905-100915.	2.6	6
161	Artificial Neural Network based Solar Energy Integrated Unified Power Quality Conditioner. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-25.	1.2	6
162	Hextuple-inverter configuration for multilevel nine-phase symmetrical open-winding converter. , 2016, , .		5

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163	Dual Six-Phase Multilevel AC Drive with Single Carrier Optimized Five-Level PWM for Star-Winding Configuration. Lecture Notes in Electrical Engineering, 2018, , 733-740.	0.3	5
164	L-L and L-2L Multilevel Boost Converter Topologies with Voltage Multiplier with L-L and L-2L Converter of XY Family. , 2018, , .		5
165	An Improved Structures of Modified CUK Converter using VLSI module (MCC<inf>VLSI</inf>) for High-Voltage Renewable Energy Applications. , 2018, , .		5
166	Hardware Implementation of a New Single Input Double Output L-L Converter for High Voltage Auxiliary Loads in Fuel-cell Vehicles. , 2019, , .		5
167	XL Converters- New Series of High Gain DC-DC Converters for Renewable Energy Conversion. , 2019, , .		5
168	A New Multilevel Member of Modified CUK Converter Family for Renewable Energy Applications. , 2019, , .		5
169	Novel Hybrid High Gain Converter: Combination of Cuk and Buck-Boost Structures with Switched Inductor for DC Microgrid. , 2020, , .		5
170	Leakage current repression and real-time spectrum analysis with chirp Z-transform for a novel high-efficiency PV-based inverter applicable in micro-grids. Electrical Engineering, 2020, 102, 2041-2057.	1.2	5
171	Cybernetics approaches in intelligent systems for crops disease detection with the aid of IoT. International Journal of Intelligent Systems, 2021, 36, 6550-6580.	3.3	5
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