

Sanjeevikumar Padmanaban

List of Publications by Year in descending order

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507
papers

12,045
citations

44069

48
h-index

58581

82
g-index

579
all docs

579
docs citations

579
times ranked

7441
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of Power Transformers Health Index Using Parameters Affecting the Transformer's Life. IETE Journal of Research, 2023, 69, 8467-8488.	2.6	13
2	Rule-Based Inferential System for Microgrid Energy Management System. IEEE Systems Journal, 2022, 16, 1582-1591.	4.6	11
3	Power Management of Battery Integrated PV System with SMC-Controlled Bidirectional Converter. Energy Systems in Electrical Engineering, 2022, , 423-432.	0.7	0
4	An Internet of Things-Inspired Dual-Level Boost Converter for BLDC-Driven Photovoltaic Water Pumping Applications. Energy Systems in Electrical Engineering, 2022, , 371-381.	0.7	1
5	Prosumer Energy Management for Optimal Utilization of Bid Fulfillment With EV Uncertainty Modeling. IEEE Transactions on Industry Applications, 2022, 58, 599-611.	4.9	9
6	Modified incremental conductance MPPT algorithm for SPV-based grid-tied and stand-alone systems. IET Generation, Transmission and Distribution, 2022, 16, 776-791.	2.5	30
7	The state-of-the-art of power electronics converters configurations in electric vehicle technologies. , 2022, 1, 100001.		37
8	Line start synchronous reluctance motor with improved power factor for agriculture electric pump applications. Journal of Engineering, 2022, 2022, 295-310.	1.1	3
9	High Efficiency Operation of Brushless DC Motor Drive Using Optimized Harmonic Minimization Based Switching Technique. IEEE Transactions on Industry Applications, 2022, 58, 2122-2133.	4.9	7
10	Review of Contemporary Progresses in Carbon-Based Electrode Material in Li-S Batteries. Journal of the Electrochemical Society, 2022, 169, 020530.	2.9	28
11	Performance Evaluation of a MW-Size Grid-Connected Solar Photovoltaic Plant Considering the Impact of Tilt Angle. Sustainability, 2022, 14, 1444.	3.2	6
12	Double-switch switched-inductor converter with minimal switch voltage stress for renewable energy conversion. Computers and Electrical Engineering, 2022, 98, 107682.	4.8	5
13	Current Limitation Method for V Control of Five-Phase Induction Machines. International Transactions on Electrical Energy Systems, 2022, 2022, 1-12.	1.9	1
14	An adaptive-neuro fuzzy inference system based-hybrid technique for performing load disaggregation for residential customers. Scientific Reports, 2022, 12, 2384.	3.3	10
15	Scott-Tied Magnetically Linked Solar Multilevel Converter in Varying Environmental Conditions. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 559-571.	3.9	6
16	Comprehensive Review of KY Converter Topologies, Modulation and Control Approaches With Their Applications. IEEE Access, 2022, 10, 20978-20994.	4.2	1
17	Fuel cell-based topologies and multi-input DC-DC power converters for hybrid electric vehicles: A comprehensive review. IET Generation, Transmission and Distribution, 2022, 16, 2111-2139.	2.5	33
18	Impact of stator slot geometry on the windage loss in a high-speed linear switched reluctance motor. IET Electric Power Applications, 2022, 16, 447-462.	1.8	3

#	ARTICLE	IF	CITATIONS
19	Corrections to "Design and Implementation of Seventeen Level Inverter With Reduced Components" IEEE Access, 2022, 10, 40214-40215.	4.2	2
20	Efficient Multi-Phase Converter for E-Mobility. World Electric Vehicle Journal, 2022, 13, 67.	3.0	7
21	A Hybrid Scheme for Fault Locating for Transmission Lines with TCSC. , 2022, , .		7
22	Performance Evaluation of Solar-PV-Based Non-Isolated Switched-Inductor and Switched-Capacitor High-Step-Up Cuk Converter. Electronics (Switzerland), 2022, 11, 1381.	3.1	12
23	An Energy-Efficient Start-Up Strategy for Large Variable Speed Hydro Pump Turbine Equipped with Doubly Fed Asynchronous Machine. Energies, 2022, 15, 3138.	3.1	5
24	A review on short-term load forecasting models for microgrid application. Journal of Engineering, 2022, 2022, 665-689.	1.1	11
25	An adaptive TS-fuzzy model based RBF neural network learning for grid integrated photovoltaic applications. IET Renewable Power Generation, 2022, 16, 3149-3160.	3.1	16
26	Marine predator algorithm based PD(1+PI) controller for frequency regulation in multi-microgrid system. IET Renewable Power Generation, 2022, 16, 2136-2151.	3.1	9
27	Optimal instantaneous prediction of voltage instability due to transient faults in power networks taking into account the dynamic effect of generators. Cogent Engineering, 2022, 9, .	2.2	23
28	Hybrid protection algorithm for power system with renewable energy generation using Stockwell transform and Wigner distribution function. Journal of Engineering, 2022, 2022, 832-846.	1.1	1
29	AI and ML Powered IoT Applications for Energy Management in Electric Vehicles. Wireless Personal Communications, 2022, 126, 1223-1239.	2.7	4
30	Balanced Standalone Clustering Unit Commitment Solution for Smart Grid Using Probability Algorithms. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 5246-5266.	2.3	0
31	Guest Editorial: Fast, Superfast, and Ultra-Superfast Intelligent and Smart Charging Solutions for Electric Vehicles. IEEE Transactions on Industry Applications, 2022, 58, 5518-5519.	4.9	2
32	A Game Theory Based Optimal Planning for a Hybrid Energy System Considering Time of Use Tariffs. , 2022, , .		2
33	A review on non-isolated low-power DC-DC converter topologies with high output gain for solar photovoltaic system applications. Clean Energy, 2022, 6, 557-572.	3.2	10
34	Communication-Less Primary and Secondary Control in Inverter-Interfaced AC Microgrid: An Overview. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5164-5182.	5.4	40
35	System Architecture, Design, and Optimization of a Flexible Wireless Charger for Renewable Energy-Powered Electric Bicycles. IEEE Systems Journal, 2021, 15, 2696-2707.	4.6	20
36	Single-Phase Step-Up Switched-Capacitor-Based Multilevel Inverter Topology With SHEPWM. IEEE Transactions on Industry Applications, 2021, 57, 3107-3119.	4.9	95

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37	Optimal Energy Harvesting From a Multistrings PV Generator Based on Artificial Bee Colony Algorithm. IEEE Systems Journal, 2021, 15, 4137-4144.	4.6	39
38	A Novel Modified Switched Inductor Boost Converter With Reduced Switch Voltage Stress. IEEE Transactions on Industrial Electronics, 2021, 68, 1275-1289.	7.9	86
39	High Gain Switched-Inductor-Double-Leg Converter With Wide Duty Range for DC Microgrid. IEEE Transactions on Industrial Electronics, 2021, 68, 9561-9573.	7.9	26
40	Improved Perturb and Observation Maximum Power Point Tracking Technique for Solar Photovoltaic Power Generation Systems. IEEE Systems Journal, 2021, 15, 3024-3035.	4.6	78
41	Genetic algorithm based reference current control extraction based shunt active power filter. International Transactions on Electrical Energy Systems, 2021, 31, .	1.9	9
42	Recognition of Power Quality Issues Associated With Grid Integrated Solar Photovoltaic Plant in Experimental Framework. IEEE Systems Journal, 2021, 15, 3740-3748.	4.6	29
43	<scp>PSO</scp> optimized <scp>PI</scp> controlled <scp>DCâ€DC</scp> buck converterâ€based protonâ€exchange membrane fuel cell emulator for testing of <scp>MPPT</scp> algorithm and battery charger controller. International Transactions on Electrical Energy Systems, 2021, 31, e12754.	1.9	14
44	Torque ripple minimization of <scp>PMSM</scp> using an adaptive Elman neural networkâ€controlled feedback linearizationâ€based direct torque control strategy. International Transactions on Electrical Energy Systems, 2021, 31, .	1.9	49
45	Extendable Switched-Capacitor Multilevel Inverter With Reduced Number of Components and Self-Balancing Capacitors. IEEE Transactions on Industry Applications, 2021, 57, 3154-3163.	4.9	31
46	Small-Signal Stability Analysis for Microgrids Under Uncertainty Using MALANN Control Technique. IEEE Systems Journal, 2021, 15, 3797-3807.	4.6	4
47	Ceiling Fan Drivesâ€Past, Present and Future. IEEE Access, 2021, 9, 44888-44904.	4.2	13
48	Cyber Attack Detection Based on Wavelet Singular Entropy in AC Smart Islands: False Data Injection Attack. IEEE Access, 2021, 9, 16488-16507.	4.2	32
49	Design and Control of Grid-Connected PWM Rectifiers by Optimizing Fractional Order PI Controller Using Water Cycle Algorithm. IEEE Access, 2021, 9, 125941-125954.	4.2	13
50	Design and Implementation of Seventeen Level Inverter With Reduced Components. IEEE Access, 2021, 9, 16746-16760.	4.2	76
51	Implementation of APSO and Improved APSO on Non-Cascaded and Cascaded Short Term Hydrothermal Scheduling. IEEE Access, 2021, 9, 77784-77797.	4.2	14
52	Artificial Neural Network and Newton Raphson (ANN-NR) Algorithm Based Selective Harmonic Elimination in Cascaded Multilevel Inverter for PV Applications. IEEE Access, 2021, 9, 75058-75070.	4.2	41
53	LSTM Recurrent Neural Network Classifier for High Impedance Fault Detection in Solar PV Integrated Power System. IEEE Access, 2021, 9, 32672-32687.	4.2	82
54	Design and Implementation of a Single-Phase 15-Level Inverter With Reduced Components for Solar PV Applications. IEEE Access, 2021, 9, 581-594.	4.2	29

#	ARTICLE	IF	CITATIONS
55	Design and Implementation of Multilevel Inverters for Electric Vehicles. IEEE Access, 2021, 9, 317-338.	4.2	34
56	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.	4.2	11
57	Conventional and Metaheuristic Optimization Algorithms for Solving Short Term Hydrothermal Scheduling Problem: A Review. IEEE Access, 2021, 9, 25993-26025.	4.2	22
58	Systematic Approach for State-of-the-Art Architectures and System-on-Chip Selection for Heterogeneous IoT Applications. IEEE Access, 2021, 9, 25594-25622.	4.2	15
59	Controller Parameters Optimization for Multi-Terminal DC Power System Using Ant Colony Optimization. IEEE Access, 2021, 9, 59910-59919.	4.2	14
60	Estimation of Islanding Events in Utility Distribution Grid With Renewable Energy Using Current Variations and Stockwell Transform. IEEE Access, 2021, 9, 69798-69813.	4.2	5
61	Implementation of Optimization-Based PI Controller Tuning for Non-Ideal Differential Boost Inverter. IEEE Access, 2021, 9, 58677-58688.	4.2	7
62	A Novel Solar Photovoltaic Fed TransZSI-DVR for Power Quality Improvement of Grid-Connected PV Systems. IEEE Access, 2021, 9, 7263-7279.	4.2	30
63	Real-Time Implementation of Extended Kalman Filter Observer With Improved Speed Estimation for Sensorless Control. IEEE Access, 2021, 9, 50452-50465.	4.2	17
64	Non-Isolated DC-DC Power Converter With High Gain and Inverting Capability. IEEE Access, 2021, 9, 62084-62092.	4.2	15
65	Protection Scheme using Wavelet-Alienation-Neural Technique for UPFC Compensated Transmission Line. IEEE Access, 2021, 9, 13737-13753.	4.2	27
66	Performance characteristics and reliability assessment of self-excited induction generator for wind power generation. IET Renewable Power Generation, 2021, 15, 1927-1942.	3.1	10
67	A low power and soft error resilience guard-gated Quattro-based flip-flop in 45 nm CMOS technology. IET Circuits, Devices and Systems, 2021, 15, 571-580.	1.4	0
68	Performance of DVR Using Optimized PI Controller Based Gradient Adaptive Variable Step LMS Control Algorithm. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 155-163.	3.9	26
69	Optimized Economic Operation of Microgrid: Combined Cooling and Heating Power and Hybrid Energy Storage Systems. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	27
70	Layout optimisation algorithms and reliability assessment of wind farm for microgrid integration: A comprehensive review. IET Renewable Power Generation, 2021, 15, 2063-2084.	3.1	9
71	Binary-Quintuple Progression Based 12-Switch 25-Level Converter With Nearest Level Modulation Technique for Grid-Tied and Standalone Applications. IEEE Transactions on Industry Applications, 2021, 57, 3214-3223.	4.9	15
72	Multilevel Converter Applications in the Area of Renewable Energy, More-Electric Propulsion, Electric Vehicles and Power Grid Integration. IEEE Transactions on Industry Applications, 2021, 57, 3050-3051.	4.9	5

#	ARTICLE	IF	CITATIONS
73	A Novel Neutral Point Clamped Symmetrical Boost Inverters with Reduced Components. , 2021, , .		3
74	Modelling, analysis, and implementation of a switchedâ€inductor based DC/DC converter with reduced switch current stress. IET Power Electronics, 2021, 14, 1504-1514.	2.1	9
75	Optimal Economic Modelling of Hybrid Combined Cooling, Heating, and Energy Storage System Based on Gravitational Search Algorithm-Random Forest Regression. Complexity, 2021, 2021, 1-13.	1.6	7
76	Spider Community Optimization Algorithm to Determine UPFC Optimal Size and Location for Improve Dynamic Stability. , 2021, , .		13
77	A multivariable transmission line protection scheme using signal processing techniques. IET Generation, Transmission and Distribution, 2021, 15, 3115-3137.	2.5	10
78	A comprehensive review on IoTâ€based infrastructure for smart grid applications. IET Renewable Power Generation, 2021, 15, 3761-3776.	3.1	17
79	Design and Implementation of Asymmetric Cascaded Multilevel Inverter with Optimal Components. Electric Power Components and Systems, 2021, 49, 361-374.	1.8	8
80	Optimal Planning of Electrical Appliance of Residential Units in a Smart Home Network Using Cloud Services. Smart Cities, 2021, 4, 1173-1195.	9.4	41
81	Double stage converter with low current stress for low to high voltage conversion in nanogrid. Energy Reports, 2021, 7, 5710-5721.	5.1	8
82	Resiliency/Cost-Based Optimal Design of Distribution Network to Maintain Power System Stability Against Physical Attacks: A Practical Study Case. IEEE Access, 2021, 9, 43862-43875.	4.2	31
83	Mitigation of Complex Non-Linear Dynamic Effects in Multiple Output Cascaded DC-DC Converters. IEEE Access, 2021, 9, 54602-54612.	4.2	10
84	Application of Dynamically Search Space Squeezed Modified Firefly Algorithm to a Novel Short Term Economic Dispatch of Multi-Generation Systems. IEEE Access, 2021, 9, 1918-1939.	4.2	22
85	A Comprehensive Review of Authentication Schemes in Vehicular Ad-Hoc Network. IEEE Access, 2021, 9, 31309-31321.	4.2	66
86	A Novel Asymmetrical 21-Level Inverter for Solar PV Energy System With Reduced Switch Count. IEEE Access, 2021, 9, 11761-11775.	4.2	46
87	Clustering Isolated Nodes to Enhance Network's Life Time of WSNs for IoT Applications. IEEE Systems Journal, 2021, 15, 5654-5663.	4.6	19
88	Deep Learning for Fault Diagnostics in Bearings, Insulators, PV Panels, Power Lines, and Electric Vehicle Applicationsâ€The State-of-the-Art Approaches. IEEE Access, 2021, 9, 41246-41260.	4.2	26
89	Automated Distribution Networks Reliability Optimization in the Presence of DG Units Considering Probability Customer Interruption: A Practical Case Study. IEEE Access, 2021, 9, 98490-98505.	4.2	17
90	Design and Implementation of 31-Level Asymmetrical Inverter With Reduced Components. IEEE Access, 2021, 9, 22788-22803.	4.2	34

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91	Simultaneous Long-Term Planning of Flexible Electric Vehicle Photovoltaic Charging Stations in Terms of Load Response and Technical and Economic Indicators. World Electric Vehicle Journal, 2021, 12, 190.	3.0	21
92	Variable fractional powerâ€least mean square based control algorithm with optimized PI gains for the operation of dynamic voltage restorer. IET Power Electronics, 2021, 14, 821-833.	2.1	2
93	Energy Conservation Approach for Continuous Power Quality Improvement: A Case Study. IEEE Access, 2021, 9, 146959-146969.	4.2	15
94	Automatic Pulse Sequence Selector for Novel PWM Technique: FPGA LabVIEW Implementation. , 2021, , .		0
95	Performance Study of a Novel Dual Rotor Sandwich Stator Fusion Magnetic Pole Six-Phase Permanent Magnet Synchronous Generator for Geothermal Energy Extraction. , 2021, , .		0
96	Quality Valuation of a Novel Dual Stator Dual Rotor U-Shaped Permanent Magnet Synchronous Generator for Nuclear Energy Extraction. , 2021, , .		0
97	A New Five-Phase Three-Level Neutral Point Clamped Inverter for Two Independent Loads. , 2021, , .		1
98	Design and Implementation of Hysteresis Motor with Scrap Material Rotor Ring. , 2021, , .		1
99	Performance Characterization of Novel Dual Stator Sandwiched Rotor Hybrid Magnetic Pole Six-Phase PMSG for Harnessing Wind Power. , 2021, , .		0
100	Design Consideration of Novel Dual Integrated Rotor-Stator System with Double Layered V-Shaped Magnetic Pole Six-Phase PMSG for Tidal Energy Extraction. , 2021, , .		1
101	Maximum Power Transfer of Wireless Charging System Using a Data-Based Approach. , 2021, , .		0
102	Primary-Switched-Inductance Single-Ended Converter for E-Vehicles Applications. , 2021, , .		0
103	A Multilevel Inverter Topology Using Diode Half-Bridge Circuit with Reduced Power Component. Energies, 2021, 14, 7249.	3.1	9
104	Techno-Economic Aspects of the Wireless EV Charging System. , 2021, , .		1
105	Smart Vehicular System: Demand, Curiosity, Challenges, And Power Electronics Skills. , 2021, , .		0
106	Reviewâ€Carbon Electrodes in Magnesium Sulphur Batteries: Performance Comparison of Electrodes and Future Directions. Journal of the Electrochemical Society, 2021, 168, 120555.	2.9	12
107	Big Data for SMART Sensor and Intelligent Electronic Devices â€ Building Application. , 2021, , 11-28.		1
108	Design and Performance Analysis of Four Plates Capacitive Coupler for Electric Vehicle On-Road Wireless Charging. , 2021, , .		3

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109	Future Trends and Aging Analysis of Battery Energy Storage Systems for Electric Vehicles. Sustainability, 2021, 13, 13779.	3.2	16
110	Framework for User-Centered Access to Electric Charging Facilities via Energy-Trading Blockchain. , 2021, , .		5
111	Closed-Loop Control and Boundary for CCM and DCM of Nonisolated Inverting \bar{N} – Multilevel Boost Converter for High-Voltage Step-Up Applications. IEEE Transactions on Industrial Electronics, 2020, 67, 2863-2874.	7.9	44
112	Implementation of high-gain nonisolated DC-DC converter for PV-fed applications. International Transactions on Electrical Energy Systems, 2020, 30, e12165.	1.9	9
113	An improved hybrid PV-wind power system with MPPT for water pumping applications. International Transactions on Electrical Energy Systems, 2020, 30, e12210.	1.9	25
114	Design and prototyping of single-phase shunt active power filter for harmonics elimination using model predictive current control. International Transactions on Electrical Energy Systems, 2020, 30, e12231.	1.9	9
115	Design and implementation of a novel asymmetrical multilevel inverter optimal hardware components. International Transactions on Electrical Energy Systems, 2020, 30, e12201.	1.9	35
116	A Modified Step-Up Converter with Small Signal Analysis-Based Controller for Renewable Resource Applications. Applied Sciences (Switzerland), 2020, 10, 102.	2.5	21
117	An Experimental Estimation of Hybrid ANFIS-PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. IEEE Systems Journal, 2020, 14, 1218-1229.	4.6	230
118	A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. IEEE Systems Journal, 2020, 14, 3334-3342.	4.6	71
119	Performance Analysis of APSO and Firefly Algorithm for Short Term Optimal Scheduling of Multi-Generation Hybrid Energy System. IEEE Access, 2020, 8, 177549-177569.	4.2	26
120	Design and Implementation of Multilevel Inverters for Fuel Cell Energy Conversion System. IEEE Access, 2020, 8, 183690-183707.	4.2	53
121	A New Multilevel Inverter Topology With Reduced Power Components for Domestic Solar PV Applications. IEEE Access, 2020, 8, 187483-187497.	4.2	46
122	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.	4.2	11
123	Optimization configuration of energy storage capacity based on the microgrid reliable output power. Journal of Energy Storage, 2020, 32, 101866.	8.1	35
124	A Single-Source High-Gain Switched-Capacitor Multilevel Inverter with Inherent Voltage Balancing. , 2020, , .		3
125	Single-Phase Series Compensator Circuit for Mitigating Voltage Sag or Swell in the Power System Networks - Methodology and Modelling. , 2020, , .		1
126	Two-Tier Converter: A New Structure of High Gain DC-DC Converter with Reduced Voltage Stress. , 2020, , .		6

#	ARTICLE	IF	CITATIONS
127	Novel Non-Isolated Quad-Switched Inductor Double-Switch Converter for DC Microgrid Application. , 2020, , .		14
128	Hybrid PIPSO-SQP Algorithm for Real Power Loss Minimization in Radial Distribution Systems with Optimal Placement of Distributed Generation. Sustainability, 2020, 12, 5787.	3.2	18
129	Chain of X-Y Power Novel DC-DC Converters with Synchronous Grounded Switching for High Step-Up Renewable Power Applications. , 2020, , .		3
130	Modified CUK Converter with Two Switched Inductor Module Configurations for Photovoltaic Application: Part-II. , 2020, , .		1
131	Silicon Carbide (SiC) based Constant DC Current Source for DC Current Transformer Calibration. , 2020, , .		0
132	Comparative Study of Cavitation Problem Detection in Pumping System Using SVM and K-Nearest Neighbour Method. , 2020, , .		2
133	Theoretical and Performance Analysis of PWM Control-Based Variable Switching Frequency for Torque Ripple Reduction in SPMSM Drive Systems. , 2020, , .		0
134	Dynamic Voltage Restorer (DVR): A Comprehensive Review of Topologies, Power Converters, Control Methods, and Modified Configurations. Energies, 2020, 13, 4152.	3.1	56
135	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. Energies, 2020, 13, 4212.	3.1	10
136	Internet of things augmented a novel PSO-employed modified zeta converter-based photovoltaic maximum power tracking system: hardware realisation. IET Power Electronics, 2020, 13, 2775-2781.	2.1	54
137	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.	2.1	73
138	Survey of DC-DC Non-Isolated Topologies for Unidirectional Power Flow in Fuel Cell Vehicles. IEEE Access, 2020, 8, 178130-178166.	4.2	109
139	False Data Injection Attack Detection based on Hilbert-Huang Transform in AC Smart Islands. IEEE Access, 2020, 8, 179002-179017.	4.2	30
140	Investigation on Sizing of Voltage Source for a Battery Energy Storage System in Microgrid With Renewable Energy Sources. IEEE Access, 2020, 8, 188861-188874.	4.2	64
141	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.	4.2	6
142	Energy Framework and Policy Direction Guidelines: Ghana 2017-2050 Perspectives. IEEE Access, 2020, 8, 152851-152869.	4.2	8
143	Energy Coordination of EV for Optimal Utilization in Smart Grid based on Uncertainty Modelling. , 2020, , .		1
144	Generalized Dynamic and Steady-State Performance Analysis of the Three-phase Current-Source Inverter for Green Energy Applications. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
145	A Generalized Multilevel Inverter Topology With Reduction of Total Standing Voltage. IEEE Access, 2020, 8, 168941-168950.	4.2	28
146	Power Loss Analysis of Solar Photovoltaic Integrated Model Predictive Control Based On-Grid Inverter. Energies, 2020, 13, 4669.	3.1	7
147	Comprehensive Review on Detection and Classification of Power Quality Disturbances in Utility Grid With Renewable Energy Penetration. IEEE Access, 2020, 8, 146807-146830.	4.2	112
148	Investigation Studies of DC-DC Boost Converter With Proportional-Integral-Derivative Controller Using Optimization Techniques. , 2020, , .		2
149	Small-Signal Stability Analysis of Hybrid Power System With Quasi-Oppositional Sine Cosine Algorithm Optimized Fractional Order PID Controller. IEEE Access, 2020, 8, 155971-155986.	4.2	30
150	A Modified Boost Converter with Triswitching State and VLSI module for DC Nanogrid Application. , 2020, , .		3
151	Novel Hybrid High Gain Converter: Combination of Cuk and Buck-Boost Structures with Switched Inductor for DC Microgrid. , 2020, , .		5
152	A New Three-Phase Multi-Level Asymmetrical Inverter With Optimum Hardware Components. IEEE Access, 2020, 8, 212515-212528.	4.2	17
153	Enhancement of Power Quality in Domestic Loads Using Harmonic Filters. IEEE Access, 2020, 8, 197730-197744.	4.2	27
154	A Novel Nine and Seventeen-Step Multilevel Inverters with Condensed Switch Count. , 2020, , .		5
155	Review of Health Prognostics and Condition Monitoring of Electronic Components. IEEE Access, 2020, 8, 75163-75183.	4.2	45
156	Reliability enhancement of electrical power system including impacts of renewable energy sources: a comprehensive review. IET Generation, Transmission and Distribution, 2020, 14, 1799-1815.	2.5	73
157	Analysis and Investigation of Hybrid DC-DC Non-Isolated and Non-Inverting Nx Interleaved Multilevel Boost Converter (Nx-IMBC) for High Voltage Step-Up Applications: Hardware Implementation. IEEE Access, 2020, 8, 87309-87328.	4.2	38
158	Three-Phase Series Resonant DC-DC Boost Converter With Double LLC Resonant Tanks and Variable Frequency Control. IEEE Access, 2020, 8, 22386-22399.	4.2	48
159	A Hybridization of Cuk and Boost Converter Using Single Switch with Higher Voltage Gain Compatibility. Energies, 2020, 13, 2312.	3.1	26
160	Torque Ripple and Loss Minimization of Trapezoidal Brushless DC Motor Drive by Harmonics Current Excitation Switching Technique. , 2020, , .		2
161	Implementation of Designed PV Integrated Controlled Converter System. IEEE Access, 2020, 8, 100905-100915.	4.2	6
162	Wind Generation Forecasting Methods and Proliferation of Artificial Neural Network: A Review of Five Years Research Trend. Sustainability, 2020, 12, 3778.	3.2	58

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163	Inertia emulation control technique based frequency control of grid-connected single-phase rooftop photovoltaic system with battery and supercapacitor. IET Renewable Power Generation, 2020, 14, 1156-1163.	3.1	27
164	A Novel Sensorless Approach for Speed and Displacement Control of Bearingless Switched Reluctance Motor. Applied Sciences (Switzerland), 2020, 10, 4070.	2.5	6
165	Operational performance of on-grid solar photovoltaic system integrated into pre-fabricated portable cabin buildings in warm and temperate climates. Energy for Sustainable Development, 2020, 57, 109-118.	4.5	41
166	Interleaved Multilevel Boost Converter With Minimal Voltage Multiplier Components for High-Voltage Step-Up Applications. IEEE Transactions on Power Electronics, 2020, 35, 12816-12833.	7.9	46
167	Non-Isolated High-Gain Triple Port DC-DC Buck-Boost Converter With Positive Output Voltage for Photovoltaic Applications. IEEE Access, 2020, 8, 113649-113666.	4.2	97
168	Comprehensive Review of Distributed FACTS Control Algorithms for Power Quality Enhancement in Utility Grid With Renewable Energy Penetration. IEEE Access, 2020, 8, 107614-107634.	4.2	93
169	Development of Stand-Alone Green Hybrid System for Rural Areas. Sustainability, 2020, 12, 3808.	3.2	9
170	A novel cross-connected multilevel inverter topology for higher number of voltage levels with reduced switch count. International Transactions on Electrical Energy Systems, 2020, 30, e12381.	1.9	26
171	Computational Tools for Modeling and Analysis of Power Generation and Transmission Systems of the Smart Grid. IEEE Systems Journal, 2020, 14, 3641-3652.	4.6	15
172	BOLD: Bio-Inspired Optimized Leader Election for Multiple Drones. Sensors, 2020, 20, 3134.	3.8	41
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