

Sanjeevikumar Padmanaban

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Comprehensive Study of Key Electric Vehicle (EV) Components, Technologies, Challenges, Impacts, and Future Direction of Development. <i>Energies</i> , 2017, 10, 1217.	1.6	434
2	Recent advances and challenges of fuel cell based power system architectures and control – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 73, 10-18.	8.2	355
3	A Comprehensive Review on Renewable Energy Development, Challenges, and Policies of Leading Indian States With an International Perspective. <i>IEEE Access</i> , 2020, 8, 74432-74457.	2.6	328
4	Optimal planning of electric vehicle charging station at the distribution system using hybrid optimization algorithm. <i>Energy</i> , 2017, 133, 70-78.	4.5	240
5	Analysis and Mitigation of Power Quality Issues in Distributed Generation Systems Using Custom Power Devices. <i>IEEE Access</i> , 2018, 6, 16816-16833.	2.6	235
6	An Experimental Estimation of Hybrid ANFIS–PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. <i>IEEE Systems Journal</i> , 2020, 14, 1218-1229.	2.9	230
7	Direct electron transfer with yeast cells and construction of a mediatorless microbial fuel cell. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2604-2610.	5.3	184
8	Review on the optimal placement, sizing and control of an energy storage system in the distribution network. <i>Journal of Energy Storage</i> , 2019, 21, 489-504.	3.9	182
9	Investigation of MPPT Techniques Under Uniform and Non-Uniform Solar Irradiance Condition – A Retrospection. <i>IEEE Access</i> , 2020, 8, 127368-127392.	2.6	146
10	An Extensive Practical Investigation of FPSO-Based MPPT for Grid Integrated PV System Under Variable Operating Conditions With Anti-Islanding Protection. <i>IEEE Systems Journal</i> , 2019, 13, 1861-1871.	2.9	133
11	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. <i>IET Electric Power Applications</i> , 2018, 12, 962-971.	1.1	124
12	An Ant Colony Optimized MPPT for Standalone Hybrid PV-Wind Power System with Single Cuk Converter. <i>Energies</i> , 2019, 12, 167.	1.6	122
13	A Novel Modified Sine-Cosine Optimized MPPT Algorithm for Grid Integrated PV System under Real Operating Conditions. <i>IEEE Access</i> , 2019, 7, 10467-10477.	2.6	120
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.	2.6	117
15	Comprehensive Review on Detection and Classification of Power Quality Disturbances in Utility Grid With Renewable Energy Penetration. <i>IEEE Access</i> , 2020, 8, 146807-146830.	2.6	112
16	Internet of Things Applications as Energy Internet in Smart Grids and Smart Environments. <i>Electronics (Switzerland)</i> , 2019, 8, 972.	1.8	110
17	Survey of DC-DC Non-Isolated Topologies for Unidirectional Power Flow in Fuel Cell Vehicles. <i>IEEE Access</i> , 2020, 8, 178130-178166.	2.6	109
18	Power Consumption Analysis, Measurement, Management, and Issues: A State-of-the-Art Review of Smartphone Battery and Energy Usage. <i>IEEE Access</i> , 2019, 7, 182113-182172.	2.6	100

#	ARTICLE	IF	CITATIONS
19	A New Structure of High Voltage Gain SEPIC Converter for Renewable Energy Applications. IEEE Access, 2019, 7, 89857-89868.	2.6	99
20	High Gain Transformer-Less Double-Duty-Triple-Mode DC/DC Converter for DC Microgrid. IEEE Access, 2019, 7, 36353-36370.	2.6	97
21	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
22	Single-Phase Step-Up Switched-Capacitor-Based Multilevel Inverter Topology With SHEPWM. IEEE Transactions on Industry Applications, 2021, 57, 3107-3119.	3.3	95
23	Constant Power Loads (CPL) with Microgrids: Problem Definition, Stability Analysis and Compensation Techniques. Energies, 2017, 10, 1656.	1.6	94
24	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
25	Comprehensive Review of Distributed FACTS Control Algorithms for Power Quality Enhancement in Utility Grid With Renewable Energy Penetration. IEEE Access, 2020, 8, 107614-107634.	2.6	93
26	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
27	A Comprehensive Review on Constant Power Loads Compensation Techniques. IEEE Access, 2018, 6, 33285-33305.	2.6	90
28	A Novel Modified Switched Inductor Boost Converter With Reduced Switch Voltage Stress. IEEE Transactions on Industrial Electronics, 2021, 68, 1275-1289.	5.2	86
29	Photovoltaic Integrated Hybrid Microgrid Structured Electric Vehicle Charging Station and Its Energy Management Approach. Energies, 2019, 12, 168.	1.6	84
30	LSTM Recurrent Neural Network Classifier for High Impedance Fault Detection in Solar PV Integrated Power System. IEEE Access, 2021, 9, 32672-32687.	2.6	82
31	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
32	Design and Implementation of Seventeen Level Inverter With Reduced Components. IEEE Access, 2021, 9, 16746-16760.	2.6	76
33	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
34	Reliability enhancement of electrical power system including impacts of renewable energy sources: a comprehensive review. IET Generation, Transmission and Distribution, 2020, 14, 1799-1815.	1.4	73
35	A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. IEEE Systems Journal, 2020, 14, 3334-3342.	2.9	71
36	Review on control techniques and methodologies for maximum power extraction from wind energy systems. IET Renewable Power Generation, 2018, 12, 1609-1622.	1.7	70

#	ARTICLE	IF	CITATIONS
37	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
38	Design and Hardware Implementation Considerations of Modified Multilevel Cascaded H-Bridge Inverter for Photovoltaic System. <i>IEEE Access</i> , 2019, 7, 16504-16524.	2.6	69
39	A Comprehensive Review of Authentication Schemes in Vehicular Ad-Hoc Network. <i>IEEE Access</i> , 2021, 9, 31309-31321.	2.6	66
40	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
41	Wind Generation Forecasting Methods and Proliferation of Artificial Neural Network: A Review of Five Years Research Trend. <i>Sustainability</i> , 2020, 12, 3778.	1.6	58
42	Dynamic Voltage Restorer (DVR): A Comprehensive Review of Topologies, Power Converters, Control Methods, and Modified Configurations. <i>Energies</i> , 2020, 13, 4152.	1.6	56
43	A sociocultural study on solar photovoltaic energy system in India: Stratification and policy implication. <i>Journal of Cleaner Production</i> , 2019, 216, 461-481.	4.6	55
44	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
45	Pathfinder-Development of Automated Guided Vehicle for Hospital Logistics. <i>IEEE Access</i> , 2017, 5, 26892-26900.	2.6	53
46	Design and Implementation of Multilevel Inverters for Fuel Cell Energy Conversion System. <i>IEEE Access</i> , 2020, 8, 183690-183707.	2.6	53
47	High-Voltage High-Frequency Arbitrary Waveform Multilevel Generator for DBD Plasma Actuators. <i>IEEE Transactions on Industry Applications</i> , 2015, 51, 3334-3342.	3.3	52
48	A Multistage DC-DC Step-Up Self-Balanced and Magnetic Component-Free Converter for Photovoltaic Applications: Hardware Implementation. <i>Energies</i> , 2017, 10, 719.	1.6	52
49	Multi-phase multi-level AC motor drive based on four three-phase two-level inverters. , 2010, , .		51
50	Maximum Power Point Tracking for Brushless DC Motor-Driven Photovoltaic Pumping Systems Using a Hybrid ANFIS-FLOWER Pollination Optimization Algorithm. <i>Energies</i> , 2018, 11, 1067.	1.6	51
51	A simple MPPT algorithm for novel PV power generation system by high output voltage DC-DC boost converter. , 2015, , .		50
52	Large Scale Renewable Energy Integration: Issues and Solutions. <i>Energies</i> , 2019, 12, 1996.	1.6	49
53	Torque ripple minimization of PMSM using an adaptive Elman neural network-controlled feedback linearization-based direct torque control strategy. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, .	1.2	49
54	X-Y converter family: A new breed of buck boost converter for high step-up renewable energy applications. , 2016, , .		48

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55	A solar PV water pumping solution using a three-level cascaded inverter connected induction motor drive. Engineering Science and Technology, an International Journal, 2016, 19, 1731-1741.	2.0	48
56	Three-Phase Series Resonant DC-DC Boost Converter With Double LLC Resonant Tanks and Variable Frequency Control. IEEE Access, 2020, 8, 22386-22399.	2.6	48
57	Nature-Inspired MPPT Algorithms for Partially Shaded PV Systems: A Comparative Study. Energies, 2019, 12, 1451.	1.6	47
58	Closed-Loop Control and Performance Evaluation of Reduced Part Count Multilevel Inverter Interfacing Grid-Connected PV System. IEEE Access, 2020, 8, 75691-75701.	2.6	47
59	Energy management strategy for solid-state transformer-based solar charging station for electric vehicles in smart grids. IET Renewable Power Generation, 2020, 14, 3843-3852.	1.7	47
60	Energy Management Strategy for Rural Communities'™ DC Micro Grid Power System Structure with Maximum Penetration of Renewable Energy Sources. Applied Sciences (Switzerland), 2018, 8, 585.	1.3	46
61	Authentication Protocol for Cloud Databases Using Blockchain Mechanism. Sensors, 2019, 19, 4444.	2.1	46
62	A New Multilevel Inverter Topology With Reduced Power Components for Domestic Solar PV Applications. IEEE Access, 2020, 8, 187483-187497.	2.6	46
63	Interleaved Multilevel Boost Converter With Minimal Voltage Multiplier Components for High-Voltage Step-Up Applications. IEEE Transactions on Power Electronics, 2020, 35, 12816-12833.	5.4	46
64	A Novel Asymmetrical 21-Level Inverter for Solar PV Energy System With Reduced Switch Count. IEEE Access, 2021, 9, 11761-11775.	2.6	46
65	Real-Time Forecasting of EV Charging Station Scheduling for Smart Energy Systems. Energies, 2017, 10, 377.	1.6	45
66	Review of Health Prognostics and Condition Monitoring of Electronic Components. IEEE Access, 2020, 8, 75163-75183.	2.6	45
67	A State-of-the-Art Review on the Drive of Renewables in Gujarat, State of India: Present Situation, Barriers and Future Initiatives. Energies, 2020, 13, 40.	1.6	45
68	Minimization of Load Variance in Power Grids—Investigation on Optimal Vehicle-to-Grid Scheduling. Energies, 2017, 10, 1880.	1.6	44
69	A Hybrid Moth-Flame Fuzzy Logic Controller Based Integrated Cuk Converter Fed Brushless DC Motor for Power Factor Correction. Electronics (Switzerland), 2018, 7, 288.	1.8	44
70	Closed-Loop Control and Boundary for CCM and DCM of Nonisolated Inverting N -Multilevel Boost Converter for High-Voltage Step-Up Applications. IEEE Transactions on Industrial Electronics, 2020, 67, 2863-2874.	5.2	44
71	Neural Network Based Maximum Power Point Tracking Control with Quadratic Boost Converter for PMSC—Wind Energy Conversion System. Electronics (Switzerland), 2018, 7, 20.	1.8	43
72	Exact path delay fault coverage with fundamental zbdd operations. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2003, 22, 305-316.	1.9	41

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73	Operational performance of on-grid solar photovoltaic system integrated into pre-fabricated portable cabin buildings in warm and temperate climates. <i>Energy for Sustainable Development</i> , 2020, 57, 109-118.	2.0	41
74	BOLD: Bio-Inspired Optimized Leader Election for Multiple Drones. <i>Sensors</i> , 2020, 20, 3134.	2.1	41
75	Artificial Neural Network and Newton Raphson (ANN-NR) Algorithm Based Selective Harmonic Elimination in Cascaded Multilevel Inverter for PV Applications. <i>IEEE Access</i> , 2021, 9, 75058-75070.	2.6	41
76	Optimal Planning of Electrical Appliance of Residential Units in a Smart Home Network Using Cloud Services. <i>Smart Cities</i> , 2021, 4, 1173-1195.	5.5	41
77	Communication-Less Primary and Secondary Control in Inverter-Interfaced AC Microgrid: An Overview. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 5164-5182.	3.7	40
78	Study and Analysis of an Intelligent Microgrid Energy Management Solution with Distributed Energy Sources. <i>Energies</i> , 2017, 10, 1419.	1.6	39
79	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
80	Critical Review of PV Grid-Tied Inverters. <i>Energies</i> , 2019, 12, 1921.	1.6	39
81	Wind Energy Potential Assessment by Weibull Parameter Estimation Using Multiverse Optimization Method: A Case Study of Tirumala Region in India. <i>Energies</i> , 2019, 12, 2158.	1.6	39
82	Optimal Energy Harvesting From a Multistrings PV Generator Based on Artificial Bee Colony Algorithm. <i>IEEE Systems Journal</i> , 2021, 15, 4137-4144.	2.9	39
83	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
84	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. <i>IEEE Access</i> , 2020, 8, 87309-87328.	2.6	38
85	Investigation of lubrication effect on the backward extrusion of thin-walled rectangular aluminum case with large aspect ratio. <i>Journal of Materials Processing Technology</i> , 2006, 180, 185-192.	3.1	37
86	Analysis and Implementation of Parallel Connected Two-Induction Motor Single-Inverter Drive by Direct Vector Control for Industrial Application. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 6472-6475.	5.4	37
87	The state-of-the-art of power electronics converters configurations in electric vehicle technologies. <i>IEEE Access</i> , 2022, 1, 100001.		37
88	A Review on Optimization and Control Methods Used to Provide Transient Stability in Microgrids. <i>Energies</i> , 2019, 12, 3582.	1.6	36
89	A multi-control vehicle-to-grid charger with bi-directional active and reactive power capabilities for power grid support. <i>Energy</i> , 2019, 171, 1150-1163.	4.5	36
90	Grid-Tied Photovoltaic and Battery Storage Systems with Malaysian Electricity Tariff—A Review on Maximum Demand Shaving. <i>Energies</i> , 2017, 10, 1884.	1.6	35

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91	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
92	Design and implementation of a novel asymmetrical multilevel inverter optimal hardware components. International Transactions on Electrical Energy Systems, 2020, 30, e12201.	1.2	35
93	Optimization configuration of energy storage capacity based on the microgrid reliable output power. Journal of Energy Storage, 2020, 32, 101866.	3.9	35
94	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
95	Design and Implementation of Multilevel Inverters for Electric Vehicles. IEEE Access, 2021, 9, 317-338.	2.6	34
96	Design and Implementation of 31-Level Asymmetrical Inverter With Reduced Components. IEEE Access, 2021, 9, 22788-22803.	2.6	34
97	Implementation of Wavelet-Based Robust Differential Control for Electric Vehicle Application. IEEE Transactions on Power Electronics, 2015, 30, 6510-6513.	5.4	33
98	A study on the effect of chemically synthesized magnetite nanoparticles on earthworm: Eudrilus eugeniae. Applied Nanoscience (Switzerland), 2017, 7, 17-23.	1.6	33
99	Selective Harmonic Elimination in a Wide Modulation Range Using Modified Newton-Raphson and Pattern Generation Methods for a Multilevel Inverter. Energies, 2018, 11, 458.	1.6	33
100	New tri-state switching state non-isolated high gain DC-DC boost converter for microgrid application. IET Power Electronics, 2019, 12, 2741-2750.	1.5	33
101	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.	1.4	33
102	Cyber Attack Detection Based on Wavelet Singular Entropy in AC Smart Islands: False Data Injection Attack. IEEE Access, 2021, 9, 16488-16507.	2.6	32
103	Dual MPPT algorithm for dual PV source fed Open-End Winding Induction Motor Drive for pumping application. Engineering Science and Technology, an International Journal, 2016, 19, 1771-1780.	2.0	31
104	Modified SEPIC DC-to-DC boost converter with high output-gain configuration for renewable applications. , 2017, , .		31
105	A Hybrid PV-Battery System for ON-Grid and OFF-Grid Applications-Controller-In-Loop Simulation Validation. Energies, 2020, 13, 755.	1.6	31
106	Extendable Switched-Capacitor Multilevel Inverter With Reduced Number of Components and Self-Balancing Capacitors. IEEE Transactions on Industry Applications, 2021, 57, 3154-3163.	3.3	31
107	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.	2.6	31
108	Hybrid PV-Wind, Micro-Grid Development Using Quasi-Z-Source Inverter Modeling and Control-Experimental Investigation. Energies, 2018, 11, 2277.	1.6	31

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109	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
110	Investigation on the Development of a Sliding Mode Controller for Constant Power Loads in Microgrids. Energies, 2017, 10, 1086.	1.6	30
111	An Overview of Energy Scenarios, Storage Systems and the Infrastructure for Vehicle-to-Grid Technology. Energies, 2018, 11, 2174.	1.6	30
112	Control Strategies of Mitigating Dead-time Effect on Power Converters: An Overview. Electronics (Switzerland), 2019, 8, 196.	1.8	30
113	False Data Injection Attack Detection based on Hilbert-Huang Transform in AC Smart Islands. IEEE Access, 2020, 8, 179002-179017.	2.6	30
114	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.	2.6	30
115	Infrared Thermography Based Defects Testing of Solar Photovoltaic Panel with Fuzzy Rule-Based Evaluation. Energies, 2020, 13, 1343.	1.6	30
116	A Novel Solar Photovoltaic Fed TransZSI-DVR for Power Quality Improvement of Grid-Connected PV Systems. IEEE Access, 2021, 9, 7263-7279.	2.6	30
117	Modified incremental conductance MPPT algorithm for SPV-based grid-tied and stand-alone systems. IET Generation, Transmission and Distribution, 2022, 16, 776-791.	1.4	30
118	A Three-Phase Transformerless T-Type- NPC-MLI for Grid Connected PV Systems with Common-Mode Leakage Current Mitigation. Energies, 2019, 12, 2434.	1.6	29
119	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
120	Recognition of Power Quality Issues Associated With Grid Integrated Solar Photovoltaic Plant in Experimental Framework. IEEE Systems Journal, 2021, 15, 3740-3748.	2.9	29
121	Design and Implementation of a Single-Phase 15-Level Inverter With Reduced Components for Solar PV Applications. IEEE Access, 2021, 9, 581-594.	2.6	29
122	Chelators influenced synthesis of chitosan-carboxymethyl cellulose microparticles for controlled drug delivery. Applied Nanoscience (Switzerland), 2016, 6, 1219-1231.	1.6	28
123	Coordinated Control Strategies for a Permanent Magnet Synchronous Generator Based Wind Energy Conversion System. Energies, 2017, 10, 1493.	1.6	28
124	Investigation and Comparative Analysis of Advanced PWM Techniques for Three-Phase Three-Level NPC-MLI Drives. Electric Power Components and Systems, 2018, 46, 258-269.	1.0	28
125	Dual Solar Photovoltaic Fed Three-Phase Open-End Winding Induction Motor Drive for Water Pumping System Application. Electric Power Components and Systems, 2018, 46, 1896-1911.	1.0	28
126	A Generalized Multilevel Inverter Topology With Reduction of Total Standing Voltage. IEEE Access, 2020, 8, 168941-168950.	2.6	28

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127	Review“Contemporary Progresses in Carbon-Based Electrode Material in Li-S Batteries. Journal of the Electrochemical Society, 2022, 169, 020530.	1.3	28
128	Modeling and analysis of complex dynamics for dSPACE controlled closed-loop DC-DC boost converter. International Transactions on Electrical Energy Systems, 2019, 29, e2813.	1.2	27
129	Enhancement of Power Quality in Domestic Loads Using Harmonic Filters. IEEE Access, 2020, 8, 197730-197744.	2.6	27
130	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.	1.7	27
131	A Modified High Voltage Gain Quasi-Impedance Source Coupled Inductor Multilevel Inverter for Photovoltaic Application. Energies, 2020, 13, 874.	1.6	27
132	Design and Analysis of Heavily Doped n+ Pocket Asymmetrical Junction-Less Double Gate MOSFET for Biomedical Applications. Applied Sciences (Switzerland), 2020, 10, 2499.	1.3	27
133	Protection Scheme using Wavelet-Alienation-Neural Technique for UPFC Compensated Transmission Line. IEEE Access, 2021, 9, 13737-13753.	2.6	27
134	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, .	1.4	27
135	Non-isolated and inverting Nx multilevel boost converter for photovoltaic DC link applications. , 2016, , .		26
136	A shade dispersion scheme using Latin square arrangement to enhance power production in solar photovoltaic array under partial shading conditions. Journal of Renewable and Sustainable Energy, 2018, 10, .	0.8	26
137	Performance Analysis of APSO and Firefly Algorithm for Short Term Optimal Scheduling of Multi-Generation Hybrid Energy System. IEEE Access, 2020, 8, 177549-177569.	2.6	26
138	A Hybridization of Cuk and Boost Converter Using Single Switch with Higher Voltage Gain Compatibility. Energies, 2020, 13, 2312.	1.6	26
139	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.	1.2	26
140	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
141	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.	3.0	26
142	Deep Learning for Fault Diagnostics in Bearings, Insulators, PV Panels, Power Lines, and Electric Vehicle Applications“The State-of-the-Art Approaches. IEEE Access, 2021, 9, 41246-41260.	2.6	26
143	Robust Speed Control of an Induction Motor Drive using Wavelet-fuzzy based Self-tuning Multiresolution Controller. International Journal of Computational Intelligence Systems, 2013, 6, 724.	1.6	26
144	High-Voltage DC-DC Converter Topology for PV Energy Utilization“Investigation and Implementation. Electric Power Components and Systems, 2017, 45, 221-232.	1.0	25

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145	Optimisation of hybrid renewable energy system using iterative filter selection approach. IET Renewable Power Generation, 2017, 11, 1440-1445.	1.7	25
146	Extended Kalman Filter Based Sliding Mode Control of Parallel-Connected Two Five-Phase PMSM Drive System. Electronics (Switzerland), 2018, 7, 14.	1.8	25
147	Cost-efficient nonisolated three-port DC-DC converter for EV/HEV applications with energy storage. International Transactions on Electrical Energy Systems, 2019, 29, e12088.	1.2	25
148	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
149	A Comprehensive Analysis and Hardware Implementation of Control Strategies for High Output Voltage DC-DC Boost Power Converter. International Journal of Computational Intelligence Systems, 2017, 10, 140.	1.6	25
150	Class E Power Amplifier Design and Optimization for the Capacitive Coupled Wireless Power Transfer System in Biomedical Implants. Energies, 2017, 10, 1409.	1.6	24
151	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
152	A Hybrid Algorithm for Recognition of Power Quality Disturbances. IEEE Access, 2020, 8, 229184-229200.	2.6	24
153	Analysis of Wavelet Controller for Robustness in Electronic Differential of Electric Vehicles: An Investigation and Numerical Developments. Electric Power Components and Systems, 2016, 44, 763-773.	1.0	23
154	Modified high voltage conversion inverting cuk DC-DC converter for renewable energy application. , 2017, , .		23
155	Grid Synchronization of a Seven-Phase Wind Electric Generator Using d-q PLL. Energies, 2017, 10, 926.	1.6	23
156	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, .	1.1	23
157	An implicit path-delay fault diagnosis methodology. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2003, 22, 1399-1408.	1.9	22
158	A critical path selection method for delay testing. , 0, , .		22
159	Sliding Mode Controller and Lyapunov Redesign Controller to Improve Microgrid Stability: A Comparative Analysis with CPL Power Variation. Energies, 2017, 10, 1959.	1.6	22
160	An Improved Harmonics Mitigation Scheme for a Modular Multilevel Converter. IEEE Access, 2019, 7, 147244-147255.	2.6	22
161	Conventional and Metaheuristic Optimization Algorithms for Solving Short Term Hydrothermal Scheduling Problem: A Review. IEEE Access, 2021, 9, 25993-26025.	2.6	22
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