Zbigniew Leonowicz

List of Publications by Year
in descending order

386	8,570	57719	82499
papers	citations	44 h-index	72 g-index

401	401	401	5333
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Comprehensive Study of Key Electric Vehicle (EV) Components, Technologies, Challenges, Impacts, and Future Direction of Development. Energies, 2017, 10, 1217.	1.6	434
2	Analysis and Mitigation of Power Quality Issues in Distributed Generation Systems Using Custom Power Devices. IEEE Access, 2018, 6, 16816-16833.	2.6	235
3	An Experimental Estimation of Hybrid ANFISâ€“PSO-Based MPPT for PV Grid Integration Under Fluctuating Sun Irradiance. IEEE Systems Journal, 2020, 14, 1218-1229.	2.9	230
4	Identification of Plant-Leaf Diseases Using CNN and Transfer-Learning Approach. Electronics (Switzerland), 2021, 10, 1388.	1.8	167
5	EEG filtering based on blind source separation (BSS) for early detection of Alzheimer's disease. Clinical Neurophysiology, 2005, 116, 729-737.	0.7	147
6	Advanced spectrum estimation methods for signal analysis in power electronics. IEEE Transactions on Industrial Electronics, 2003, 50, 514-519.	5.2	135
7	An Extensive Practical Investigation of FPSO-Based MPPT for Grid Integrated PV System Under Variable Operating Conditions With Anti-Islanding Protection. IEEE Systems Journal, 2019, 13, 1861-1871.	2.9	133
8	Fuzzy SVPWMâ€based inverter control realisation of grid integrated photovoltaicâ€wind system with fuzzy particle swarm optimisation maximum power point tracking algorithm for a gridâ€connected PV/wind power generation system: hardware implementation. IET Electric Power Applications, 2018, 12, 962-971.	1.1	124
9	An Ant Colony Optimized MPPT for Standalone Hybrid PV-Wind Power System with Single Cuk Converter. Energies, 2019, 12, 167.	1.6	122
10	A Novel Modified Sine-Cosine Optimized MPPT Algorithm for Grid Integrated PV System under Real Operating Conditions. IEEE Access, 2019, 7, 10467-10477.	2.6	120
11	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
12	Prediction of Chronic Kidney Disease - A Machine Learning Perspective. IEEE Access, 2021, 9, 17312-17334.	2.6	112
13	Internet of Things Applications as Energy Internet in Smart Grids and Smart Environments. Electronics (Switzerland), 2019, 8, 972.	1.8	110
14	High-Resolution Spectrum-Estimation Methods for Signal Analysis in Power Systems. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 219-225.	2.4	105
15	An Adaptive Overcurrent Coordination Scheme to Improve Relay Sensitivity and Overcome Drawbacks due to Distributed Generation in Smart Grids. IEEE Transactions on Industry Applications, 2017, 53, 5217-5228.	3.3	105
16	A New Structure of High Voltage Gain SEPIC Converter for Renewable Energy Applications. IEEE Access, 2019, 7, 89857-89868.	2.6	99
17	High Gain Transformer-Less Double-Duty-Triple-Mode DC/DC Converter for DC Microgrid. IEEE Access, 2019, 7, 36353-36370.	2.6	97
18	Non-Isolated High-Gain Triple Port DCâ€“DC Buck-Boost Converter With Positive Output Voltage for Photovoltaic Applications. IEEE Access, 2020, 8, 113649-113666.	2.6	97

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19	Single-Phase Step-Up Switched-Capacitor-Based Multilevel Inverter Topology With SHEPWM. IEEE Transactions on Industry Applications, 2021, 57, 3107-3119.	3.3	95
20	Constant Power Loads (CPL) with Microgrids: Problem Definition, Stability Analysis and Compensation Techniques. Energies, 2017, 10, 1656.	1.6	94
21	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
22	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
23	Photovoltaic Integrated Hybrid Microgrid Structured Electric Vehicle Charging Station and Its Energy Management Approach. Energies, 2019, 12, 168.	1.6	84
24	Forecasting Solar PV Output Using Convolutional Neural Networks with a Sliding Window Algorithm. Energies, 2020, 13, 723.	1.6	81
25	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
26	Design and Implementation of Seventeen Level Inverter With Reduced Components. IEEE Access, 2021, 9, 16746-16760.	2.6	76
27	New CUKâ€“SEPIC converter based photovoltaic power system with hybrid GSAâ€“PSO algorithm employing MPPT for water pumping applications. IET Power Electronics, 2020, 13, 2824-2830.	1.5	73
28	A Hybrid Photovoltaic-Fuel Cell-Based Single-Stage Grid Integration With Lyapunov Control Scheme. IEEE Systems Journal, 2020, 14, 3334-3342.	2.9	71
29	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. Energies, 2018, 11, 783.	1.6	69
30	A Comprehensive Review of Authentication Schemes in Vehicular Ad-Hoc Network. IEEE Access, 2021, 9, 31309-31321.	2.6	66
31	Measurement of IEC Groups and Subgroups Using Advanced Spectrum Estimation Methods. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 672-681.	2.4	64
32	Trimmed estimators for robust averaging of event-related potentials. Journal of Neuroscience Methods, 2005, 142, 17-26.	1.3	58
33	Fault location in power networks with mixed feeders using the complex space-phasor and Hilbertâ€“Huang transform. International Journal of Electrical Power and Energy Systems, 2012, 42, 208-219.	3.3	56
34	A sociocultural study on solar photovoltaic energy system in India: Stratification and policy implication. Journal of Cleaner Production, 2019, 216, 461-481.	4.6	55
35	Internet of things augmented a novel PSOâ€employed modified zeta converterâ€based photovoltaic maximum power tracking system: hardware realisation. IET Power Electronics, 2020, 13, 2775-2781.	1.5	54
36	Design and Implementation of Multilevel Inverters for Fuel Cell Energy Conversion System. IEEE Access, 2020, 8, 183690-183707.	2.6	53

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37	Dermatologist-Level Classification of Skin Cancer Using Cascaded Ensembling of Convolutional Neural Network and Handcrafted Features Based Deep Neural Network. IEEE Access, 2022, 10, 17920-17932.	2.6	53
38	A Multistage DC-DC Step-Up Self-Balanced and Magnetic Component-Free Converter for Photovoltaic Applications: Hardware Implementation. Energies, 2017, 10, 719.	1.6	52
39	Maximum Power Point Tracking for Brushless DC Motor-Driven Photovoltaic Pumping Systems Using a Hybrid ANFIS-FLOWER Pollination Optimization Algorithm. Energies, 2018, 11, 1067.	1.6	51
40	Large Scale Renewable Energy Integration: Issues and Solutions. Energies, 2019, 12, 1996.	1.6	49
41	Nature-Inspired MPPT Algorithms for Partially Shaded PV Systems: A Comparative Study. Energies, 2019, 12, 1451.	1.6	47
42	Energy Management Strategy for Rural Communitiesâ€™ DC Micro Grid Power System Structure with Maximum Penetration of Renewable Energy Sources. Applied Sciences (Switzerland), 2018, 8, 585.	1.3	46
43	A New Multilevel Inverter Topology With Reduced Power Components for Domestic Solar PV Applications. IEEE Access, 2020, 8, 187483-187497.	2.6	46
44	Operational planning steps in smart electric power delivery system. Scientific Reports, 2021, 11, 17250.	1.6	46
45	A Novel Asymmetrical 21-Level Inverter for Solar PV Energy System With Reduced Switch Count. IEEE Access, 2021, 9, 11761-11775.	2.6	46
46	Landslide Susceptibility Mapping Using Machine Learning: A Literature Survey. Remote Sensing, 2022, 14, 3029.	1.8	46
47	Real-Time Forecasting of EV Charging Station Scheduling for Smart Energy Systems. Energies, 2017, 10, 377.	1.6	45
48	Review of Health Prognostics and Condition Monitoring of Electronic Components. IEEE Access, 2020, 8, 75163-75183.	2.6	45
49	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
50	Minimization of Load Variance in Power Gridsâ€”Investigation on Optimal Vehicle-to-Grid Scheduling. Energies, 2017, 10, 1880.	1.6	44
51	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
52	Closed-Loop Control and Boundary for CCM and DCM of Nonisolated Inverting NÃ— Multilevel Boost Converter for High-Voltage Step-Up Applications. IEEE Transactions on Industrial Electronics, 2020, 67, 2863-2874.	5.2	44
53	Neural Network Based Maximum Power Point Tracking Control with Quadratic Boost Converter for PMSGâ€”Wind Energy Conversion System. Electronics (Switzerland), 2018, 7, 20.	1.8	43
54	Impact of Harmonic Currents of Nonlinear Loads on Power Quality of a Low Voltage Networkâ€“Review and Case Study. Energies, 2021, 14, 3665.	1.6	42

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55	Study and Analysis of an Intelligent Microgrid Energy Management Solution with Distributed Energy Sources. Energies, 2017, 10, 1419.	1.6	39
56	A New Triple-Switch-Triple-Mode High Step-Up Converter With Wide Range of Duty Cycle for DC Microgrid Applications. IEEE Transactions on Industry Applications, 2019, 55, 7425-7441.	3.3	39
57	Critical Review of PV Grid-Tied Inverters. Energies, 2019, 12, 1921.	1.6	39
58	A Case Study on Distributed Energy Resources and Energy-Storage Systems in a Virtual Power Plant Concept: Economic Aspects. Energies, 2019, 12, 4447.	1.6	39
59	Power Balancing Control for Grid Energy Storage System in Photovoltaic Applicationsâ€"Real Time Digital Simulation Implementation. Energies, 2017, 10, 928.	1.6	38
60	A Case Study on Distributed Energy Resources and Energy-Storage Systems in a Virtual Power Plant Concept: Technical Aspects. Energies, 2020, 13, 3086.	1.6	37
61	A hybrid decentralized stochastic-robust model for optimal coordination of electric vehicle aggregator and energy hub entities. Applied Energy, 2021, 304, 117708.	5.1	37
62	Harmonics and interharmonics estimation using advanced signal processing methods. , 0, , .		36
63	Intelligent wireless street lighting system. , 2012, , .		36
64	A Review on Optimization and Control Methods Used to Provide Transient Stability in Microgrids. Energies, 2019, 12, 3582.	1.6	36
65	Grid-Tied Photovoltaic and Battery Storage Systems with Malaysian Electricity Tariffâ€"A Review on Maximum Demand Shaving. Energies, 2017, 10, 1884.	1.6	35
66	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
67	Design and implementation of a novel asymmetrical multilevel inverter optimal hardware components. International Transactions on Electrical Energy Systems, 2020, 30, e12201.	1.2	35
68	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
69	Design and Implementation of 31-Level Asymmetrical Inverter With Reduced Components. IEEE Access, 2021, 9, 22788-22803.	2.6	34
70	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
71	Adaptive Neuro-Fuzzy Inference System-Based Maximum Power Tracking Controller for Variable Speed WECS. Energies, 2021, 14, 6275.	1.6	33
72	Plant Disease Identification Using Shallow Convolutional Neural Network. Agronomy, 2021, 11, 2388.	1.3	33

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73	Modified SEPIC DC-to-DC boost converter with high output-gain configuration for renewable applications. , 2017, , .		31
74	A Multifunctional Dynamic Voltage Restorer for Power Quality Improvement. Energies, 2018, 11, 1351.	1.6	31
75	A Hybrid PV-Battery System for ON-Grid and OFF-Grid Applicationsâ€"Controller-In-Loop Simulation Validation. Energies, 2020, 13, 755.	1.6	31
76	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
77	Hybrid PV-Wind, Micro-Grid Development Using Quasi-Z-Source Inverter Modeling and Controlâ€"Experimental Investigation. Energies, 2018, 11, 2277.	1.6	31
78	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
79	Investigation on the Development of a Sliding Mode Controller for Constant Power Loads in Microgrids. Energies, 2017, 10, 1086.	1.6	30
80	An Overview of Energy Scenarios, Storage Systems and the Infrastructure for Vehicle-to-Grid Technology. Energies, 2018, 11, 2174.	1.6	30
81	Control Strategies of Mitigating Dead-time Effect on Power Converters: An Overview. Electronics (Switzerland), 2019, 8, 196.	1.8	30
82	Modified incremental conductance MPPT algorithm for SPVâ€based gridâ€tied and standâ€alone systems. IET Generation, Transmission and Distribution, 2022, 16, 776-791.	1.4	30
83	Analysis of SDFT based phase detection system for grid synchronization of distributed generation systems. Engineering Science and Technology, an International Journal, 2014, 17, 270-278.	2.0	29
84	Microgrid Energy Management System With Embedded Deep Learning Forecaster and Combined Optimizer. IEEE Access, 2020, 8, 202225-202239.	2.6	29
85	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
86	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
87	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
88	A Hybrid Supervised Machine Learning Classifier System for Breast Cancer Prognosis Using Feature Selection and Data Imbalance Handling Approaches. Electronics (Switzerland), 2021, 10, 699.	1.8	29
89	A Five Convolutional Layer Deep Convolutional Neural Network for Plant Leaf Disease Detection. Electronics (Switzerland), 2022, 11, 1266.	1.8	29
90	Coordinated Control Strategies for a Permanent Magnet Synchronous Generator Based Wind Energy Conversion System. Energies, 2017, 10, 1493.	1.6	28

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91	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
92	Protection Coordination of Properly Sized and Placed Distributed Generationsâ€“Methods, Applications and Future Scope. Energies, 2018, 11, 2672.	1.6	28
93	Modeling and analysis of complex dynamics for dSPACE controlled closedâ€loop DCâ€DC boost converter. International Transactions on Electrical Energy Systems, 2019, 29, e2813.	1.2	27
94	A Modified High Voltage Gain Quasi-Impedance Source Coupled Inductor Multilevel Inverter for Photovoltaic Application. Energies, 2020, 13, 874.	1.6	27
95	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
96	Estimation of Life Cycle of Distribution Transformer in Context to Furan Content Formation, Pollution Index, and Dielectric Strength. IEEE Access, 2021, 9, 37456-37465.	2.6	27
97	Protection Scheme using Wavelet-Alienation-Neural Technique for UPFC Compensated Transmission Line. IEEE Access, 2021, 9, 13737-13753.	2.6	27
98	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
99	A medium-term hybrid IGDT-Robust optimization model for optimal self scheduling of multi-carrier energy systems. Energy, 2022, 238, 121661.	4.5	26
100	A maxâ€“minâ€“max robust optimization model for multi-carrier energy systems integrated with power to gas storage system. Journal of Energy Storage, 2022, 48, 103933.	3.9	26
101	High-Voltage DC-DC Converter Topology for PV Energy Utilizationâ€”Investigation and Implementation. Electric Power Components and Systems, 2017, 45, 221-232.	1.0	25
102	Optimisation of hybrid renewable energy system using iterative filter selection approach. IET Renewable Power Generation, 2017, 11, 1440-1445.	1.7	25
103	Extended Kalman Filter Based Sliding Mode Control of Parallel-Connected Two Five-Phase PMSM Drive System. Electronics (Switzerland), 2018, 7, 14.	1.8	25
104	An improved hybrid PVâ€wind power system with MPPT for water pumping applications. International Transactions on Electrical Energy Systems, 2020, 30, e12210.	1.2	25
105	Brain Magnetic Resonance Imaging Classification Using Deep Learning Architectures with Gender and Age. Sensors, 2022, 22, 1766.	2.1	25
106	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
107	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
108	A two stage fault current limiter and directional overcurrent relay optimization for adaptive protection resetting using differential evolution multi-objective algorithm in presence of distributed generation. Electric Power Systems Research, 2021, 190, 106844.	2.1	24

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109	Deep Learning Methods for Classification of Certain Abnormalities in Echocardiography. Electronics (Switzerland), 2021, 10, 495.	1.8	24
110	Blockchain: Future of e-Governance in Smart Cities. Sustainability, 2021, 13, 11840.	1.6	24
111	Modified high voltage conversion inverting cuk DC-DC converter for renewable energy application. , 2017, , .		23
112	Grid Synchronization of a Seven-Phase Wind Electric Generator Using d-q PLL. Energies, 2017, 10, 926.	1.6	23
113	Analysis of Earthquake Forecasting in India Using Supervised Machine Learning Classifiers. Sustainability, 2021, 13, 971.	1.6	23
114	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
115	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
116	Recent Developments of Photovoltaics Integrated with Battery Storage Systems and Related Feed-In Tariff Policies: A Review. International Journal of Photoenergy, 2017, 2017, 1-12.	1.4	22
117	Online Rotor and Stator Resistance Estimation Based on Artificial Neural Network Applied in Sensorless Induction Motor Drive. Energies, 2020, 13, 4946.	1.6	22
118	A Simple Multilevel Space Vector Modulation Technique and MATLAB System Generator Built FPGA Implementation for Three-Level Neutral-Point Clamped Inverter. Energies, 2019, 12, 4332.	1.6	21
119	Optimal location of an electrical vehicle charging station in a local microgrid using an embedded hybrid optimizer. International Journal of Electrical Power and Energy Systems, 2021, 131, 106979.	3.3	21
120	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.	1.6	21
121	A modified high output-gain cuk converter circuit configuration for renewable applications â€" A comprehensive investigation. , 2017, , .		20
122	Modelling and Optimization in Microgrids. Energies, 2017, 10, 523.	1.6	20
123	Control Strategy for a Grid-Connected Inverter under Unbalanced Network Conditionsâ€"A Disturbance Observer-Based Decoupled Current Approach. Energies, 2017, 10, 1067.	1.6	20
124	DC Grid for Domestic Electrification. Energies, 2019, 12, 2157.	1.6	20
125	High gain threeâ€state switching hybrid boost converter for DC microgrid applications. IET Power Electronics, 2019, 12, 3656-3667.	1.5	19
126	Influence and Impact of Data Averaging and Temporal Resolution on the Assessment of Energetic, Economic and Technical Issues of Hybrid Photovoltaic-Battery Systems. Energies, 2020, 13, 354.	1.6	19

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127	Clustering Isolated Nodes to Enhance Network's Life Time of WSNs for IoT Applications. IEEE Systems Journal, 2021, 15, 5654-5663.	2.9	19
128	Harmonic mitigation and power quality improvement in utility grid with solar energy penetration using distribution static compensator. IET Power Electronics, 2021, 14, 912-922.	1.5	19
129	Modified boost with switched inductor different configurational structures for DC-DC converter for renewable application. , 2017, , .		18
130	Multistage switched inductor boost converter for renewable energy application. , 2017, , .		18
131	Maximum Power Point Tracking Implementation by Dspace Controller Integrated Through Z-Source Inverter Using Particle Swarm Optimization Technique for Photovoltaic Applications. Applied Sciences (Switzerland), 2018, 8, 145.	1.3	18
132	Hybrid PIPSO-SQP Algorithm for Real Power Loss Minimization in Radial Distribution Systems with Optimal Placement of Distributed Generation. Sustainability, 2020, 12, 5787.	1.6	18
133	Analysis of the Power Supply Restoration Time after Failures in Power Transmission Lines. Energies, 2020, 13, 2736.	1.6	18
134	Combined Cluster Analysis and Global Power Quality Indices for the Qualitative Assessment of the Time-Varying Condition of Power Quality in an Electrical Power Network with Distributed Generation. Energies, 2020, 13, 2050.	1.6	18
135	On some spectrum estimation methods for analysis of nonstationary signals in power systems. Part I. Theoretical aspects. , 0, , .		17
136	An Improved Multistage Switched Inductor Boost Converter (Improved M-SIBC) for Renewable Energy Applications: A key to Enhance Conversion Ratio. , 2018, , .		17
137	A novel multilevel high gain modified SEPIC DC-to-DC converter for high voltage/low current renewable energy applications. , 2018, , .		17
138	Improving Microgrid Frequency Regulation Based on the Virtual Inertia Concept while Considering Communication System Delay. Energies, 2019, 12, 2016.	1.6	17
139	Modified multilevel buckâ€“boost converter with equal voltage acrosseach capacitor: analysis and experimental investigations. IET Power Electronics, 2019, 12, 3318-3330.	1.5	17
140	Influence of Measurement Aggregation Algorithms on Power Quality Assessment and Correlation Analysis in Electrical Power Network with PV Power Plant. Energies, 2019, 12, 3547.	1.6	17
141	Power Electronic Converter Configurations Integration with Hybrid Energy Sources â€“ A Comprehensive Review for State-of the-Art in Research. Electric Power Components and Systems, 2019, 47, 1623-1650.	1.0	17
142	4Nx Non-Isolated and Non-Inverting hybrid Interleaved Multilevel Boost Converter based on VLSIm Cell and Cockcroft Walton voltage multiplier for renewable energy applications. , 2016, , .		16
143	Monitoring the Number and Duration of Power Outages and Voltage Deviations at Both Sides of Switching Devices. IEEE Access, 2020, 8, 137174-137184.	2.6	16
144	Effective Management System for Solar PV Using Real-Time Data with Hybrid Energy Storage System. Applied Sciences (Switzerland), 2020, 10, 1108.	1.3	16

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145	Leveraging a Genetic Algorithm for the Optimal Placement of Distributed Generation and the Need for Energy Management Strategies Using a Fuzzy Inference System. Electronics (Switzerland), 2021, 10, 172.	1.8	16
146	Future Trends and Aging Analysis of Battery Energy Storage Systems for Electric Vehicles. Sustainability, 2021, 13, 13779.	1.6	16
147	Analysis of supra-harmonics in smart grids. , 2017, , .		15
148	Transistor-Clamped Multilevel H-Bridge Inverter in Si and SiC Hybrid Configuration for High-Efficiency Photovoltaic Applications. , 2018, , .		15
149	Rescheduling of Generators with Pumped Hydro Storage Units to Relieve Congestion Incorporating Flower Pollination Optimization. Energies, 2019, 12, 1477.	1.6	15
150	Active Power Decoupling for Current Source Converters: An Overview Scenario. Electronics (Switzerland), 2019, 8, 197.	1.8	15
151	Systematic Approach for State-of-the-Art Architectures and System-on-Chip Selection for Heterogeneous IoT Applications. IEEE Access, 2021, 9, 25594-25622.	2.6	15
152	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.	3.3	15
153	Optimal Operation of Microgrids with Demand-Side Management Based on a Combination of Genetic Algorithm and Artificial Bee Colony. Sustainability, 2022, 14, 6759.	1.6	15
154	Timeâ€“Frequency Analysis of Complex Space Phasor in Power Electronics. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2395-2403.	2.4	14
155	Condition monitoring & fault diagnosis system for Offshore Wind Turbines. , 2012, , .		14
156	Mitigating the impact of distributed generation on directional overcurrent relay coordination by adaptive protection scheme. , 2016, , .		14
157	Frequency Splitting Elimination and Cross-Coupling Rejection of Wireless Power Transfer to Multiple Dynamic Receivers. Applied Sciences (Switzerland), 2018, 8, 179.	1.3	14
158	Investigations of AC Microgrid Energy Management Systems Using Distributed Energy Resources and Plug-in Electric Vehicles. Energies, 2019, 12, 2834.	1.6	14
159	Novel Non-Isolated Quad-Switched Inductor Double-Switch Converter for DC Microgrid Application. , 2020, , .		14
160	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
161	Intelligent Scheduling of Smart Home Appliances Based on Demand Response Considering the Cost and Peak-to-Average Ratio in Residential Homes. Energies, 2021, 14, 8510.	1.6	14
162	Application of higherâ€•order spectra for signal processing in electrical power engineering. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1998, 17, 602-611.	0.5	13

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163	Advanced signal processing methods of harmonics and interharmonics estimation. , 2001, , .		13
164	An improved sensorless sliding mode control/adaptive observer of a five-phase permanent magnet synchronous motor drive. International Journal of Advanced Manufacturing Technology, 2017, 93, 1029-1039.	1.5	13
165	Development of Sliding Mode Controller for a Modified Boost Ä†uk Converter Configuration. Energies, 2017, 10, 1513.	1.6	13
166	Modeling of Five-Phase, Self-Excited Induction Generator for Wind Mill Application. Electric Power Components and Systems, 2018, 46, 353-363.	1.0	13
167	Centrifugal Pump Cavitation Detection Using Machine Learning Algorithm Technique. , 2018, , .		13
168	Boundary Detection and Enhancement Strategy for Power System Bus Bar Stabilizationâ€"Investigation under Fault Conditions for Islanding Operation. Energies, 2018, 11, 889.	1.6	13
169	Techno-Economic Optimization of Grid-Connected Photovoltaic (PV) and Battery Systems Based on Maximum Demand Reduction (MDRed) Modelling in Malaysia. Energies, 2019, 12, 3531.	1.6	13
170	The Application of Hierarchical Clustering to Power Quality Measurements in an Electrical Power Network with Distributed Generation. Energies, 2020, 13, 2407.	1.6	13
171	Determination of Power Transformers Health Index Using Parameters Affecting the Transformerâ€™s Life. IETE Journal of Research, 2023, 69, 8467-8488.	1.8	13
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173	Comparative analysis of common MPPT techniques for solar PV system with soft switched, interleaved isolated converter. , 2017, , .		12
174	Transistor Clamped Five-Level Inverter using Non-Inverting Double Reference Single Carrier PWM Technique for photovoltaic applications. , 2017, , .		12
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