

Kashem M Muttaqi

List of Publications by Year in descending order

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10,847
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times ranked

7658
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#	ARTICLE	IF	CITATIONS
1	Real-Time State of Charge Estimation of Lithium-Ion Batteries Using Optimized Random Forest Regression Algorithm. IEEE Transactions on Intelligent Vehicles, 2023, 8, 639-648.	9.4	23
2	An Advanced Modulation Technique for Transformerless Grid Connected Inverter Circuits Used in Solar Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2023, 70, 3878-3887.	5.2	3
3	Ultrahigh Voltage Gain DC-DC Boost Converter With ZVS Switching Realization and Coupled Inductor Extendable Voltage Multiplier Cell Techniques. IEEE Transactions on Industrial Electronics, 2022, 69, 323-335.	5.2	28
4	An Optimal Structure for High Step-Up Nonisolated DC-DC Converters With Soft-Switching Capability and Zero Input Current Ripple. IEEE Transactions on Industrial Electronics, 2022, 69, 4676-4686.	5.2	28
5	Design of a Multiloop Control Structure for Load-Disturbance Attenuation and Power-Mismatch Mitigation in Isolated Multiport Power Converters. IEEE Transactions on Industrial Electronics, 2022, 69, 8984-8996.	5.2	8
6	An Advanced Nonlinear Controller for the LCL-Type Three-Phase Grid-Connected Solar Photovoltaic System With a DC-DC Converter. IEEE Systems Journal, 2022, 16, 3203-3214.	2.9	10
7	A Novel Universal Magnetic Power Plug to Facilitate V2V/V2G/G2V/V2H Connectivity for Future Grid Infrastructure. IEEE Transactions on Industry Applications, 2022, 58, 951-961.	3.3	9
8	A Magnetic Linked Multiport Fractional Converter for Application to Variable Speed Wind Power Generating Systems. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 321-331.	3.0	4
9	An Adaptable Correlated Control for Maintaining Voltage Quality in Low-Voltage Distribution Grids Containing PVs and PEVs. IEEE Transactions on Industrial Informatics, 2022, 18, 5804-5814.	7.2	10
10	Consensus-based decision making approach for techno-economic operation of largescale battery energy storage in industrial microgrids. Journal of Energy Storage, 2022, 46, 103917.	3.9	5
11	Improving the Thermal Performance of Rotor-Side Converter of Doubly Fed Induction Generator Wind Turbine While Operating Around Synchronous Speed. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 298-307.	3.0	3
12	Improvement of Transient Stability of the Power Networks by an Intelligent Autoreclosing Scheme in the Presence of Synchronous-Based DGs. IEEE Transactions on Industry Applications, 2022, 58, 1783-1796.	3.3	2
13	A Hierarchical Service Restoration Framework for Unbalanced Active Distribution Networks Based on DSO and VPP Coordination. IEEE Transactions on Industry Applications, 2022, 58, 1756-1770.	3.3	6
14	Survivability-Based Protection for Electric Motor Drive Systems-Part I: ϕ Induction Motor Drives. IEEE Transactions on Industry Applications, 2022, 58, 1797-1808.	3.3	7
15	An Adaptive Overcurrent Protection Scheme for Dual-Setting Directional Recloser and Fuse Coordination in Unbalanced Distribution Networks With Distributed Generation. IEEE Transactions on Industry Applications, 2022, 58, 1831-1842.	3.3	22
16	Rule-Based Fuzzy Controller for Solid State Transfer Switch Towards Fast Sensitive Loads Transfer. IEEE Transactions on Industry Applications, 2022, 58, 1888-1898.	3.3	9
17	Optimal Algorithms for Energy Storage Systems in Microgrid Applications: An Analytical Evaluation Towards Future Directions. IEEE Access, 2022, 10, 10105-10123.	2.6	17
18	A New Hybrid Multilevel Inverter Topology With Level Shifted Multicarrier PWM Technique for Harvesting Renewable Energy. IEEE Transactions on Industry Applications, 2022, 58, 2574-2585.	3.3	21

#	ARTICLE	IF	CITATIONS
19	Distance Protection of Transmission Lines in Presence of Inverter-Based Resources: A New Earth Fault Detection Scheme During Asymmetrical Power Swings. IEEE Transactions on Industry Applications, 2022, 58, 1899-1909.	3.3	12
20	An Investigative Analysis of the Protection Performance of Unbalanced Distribution Networks With Higher Concentration of Distributed Energy Resources. IEEE Transactions on Industry Applications, 2022, 58, 1771-1782.	3.3	6
21	A Cooperative Planning Framework for Enhancing Resilience of Active Distribution Networks With Integrated VPPs Under Catastrophic Emergencies. IEEE Transactions on Industry Applications, 2022, 58, 3029-3043.	3.3	2
22	An Optimized and Outage-Resilient Energy Management Framework for Multicarrier Energy Microgrids Integrating Demand Response. IEEE Transactions on Industry Applications, 2022, 58, 4171-4180.	3.3	15
23	A Novel PSO Based Fuzzy Controller for Robust Operation of Solid-State Transfer Switch and Fast Load Transfer in Power Systems. IEEE Access, 2022, 10, 37369-37381.	2.6	3
24	Hosting Capacity of an Australian Low-Voltage Distribution Network for Electric Vehicle Adoption. , 2022, , .		2
25	Integration of a Wind-Wave Hybrid Energy System with the Distribution Network. , 2022, , .		3
26	Reinforcement of Power System Performance Through Optimal Allotment of Distributed Generators Using Metaheuristic Optimization Algorithms. Journal of Electrical Engineering and Technology, 2022, 17, 2617-2630.	1.2	2
27	A Multi-Filter Based Dynamic Power Sharing Control for a Hybrid Energy Storage System Integrated to a Wave Energy Converter for Output Power Smoothing. IEEE Transactions on Sustainable Energy, 2022, 13, 1693-1706.	5.9	23
28	High-Frequency Ripple Injection Signals for the Effective Utilization of Residential EV Storage in Future Power Grids With Rooftop PV System. IEEE Transactions on Industry Applications, 2022, 58, 6655-6665.	3.3	5
29	A New Six-Level Transformer-Less Grid-Connected Solar Photovoltaic Inverter With Less Leakage Current. IEEE Access, 2022, 10, 63736-63753.	2.6	15
30	SOC Estimation Using Deep Bidirectional Gated Recurrent Units With Tree Parzen Estimator Hyperparameter Optimization. IEEE Transactions on Industry Applications, 2022, 58, 6629-6638.	3.3	11
31	Survivability-Based Protection for Three Phase Permanent Magnet Synchronous Motor Drives. IEEE Transactions on Industry Applications, 2022, , 1-8.	3.3	0
32	Coordinated Control of Grid-Connected PMSG Based Wind Energy System With STATCOM and Supercapacitor Energy Storage. IEEE Transactions on Industry Applications, 2022, , 1-8.	3.3	0
33	Dynamic Electrical Equivalent Circuit Modeling of the Grid-Scale Proton Exchange Membrane Electrolyzer for Ancillary Services. IEEE Transactions on Industry Applications, 2022, , 1-7.	3.3	1
34	Reliability assessment of modern distribution networks embedded with renewable and distributed resources. Electric Power Systems Research, 2022, 212, 108374.	2.1	9
35	A Sequential Decision-Making Process for Optimal Technoeconomic Operation of a Grid-Connected Electrical Traction Substation Integrated With Solar PV and BESS. IEEE Transactions on Industrial Electronics, 2021, 68, 1353-1364.	5.2	17
36	A Saturated Amorphous Alloy Core-Based Inrush Current Limiter to Eliminate Inrush Currents and Restrain Harmonics during Transformer Energization. IEEE Transactions on Industry Applications, 2021, 57, 6634-6645.	3.3	7

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37	Utilization of Renewable Energy for Power Sector in Yemen: Current Status and Potential Capabilities. IEEE Access, 2021, 9, 79278-79292.	2.6	7
38	ANN-Based Binary Backtracking Search Algorithm for VPP Optimal Scheduling and Cost-Effective Evaluation. IEEE Transactions on Industry Applications, 2021, 57, 5603-5613.	3.3	7
39	Battery Energy Storage to Mitigate Rapid Voltage/Power Fluctuations in Power Grids Due to Fast Variations of Solar/Wind Outputs. IEEE Access, 2021, 9, 12191-12202.	2.6	25
40	An Effective Energy Management With Advanced Converter and Control for a PV-Battery Storage Based Microgrid to Improve Energy Resiliency. IEEE Transactions on Industry Applications, 2021, 57, 6659-6668.	3.3	16
41	Intelligent Controllers and Optimization Algorithms for Building Energy Management Towards Achieving Sustainable Development: Challenges and Prospects. IEEE Access, 2021, 9, 41577-41602.	2.6	29
42	Coordination of Spatially Distributed Electric Vehicle Charging for Voltage Rise and Voltage Unbalance Mitigation in Networks with Solar Penetration. , 2021, , .		2
43	ANN based binary backtracking search algorithm for virtual power plant scheduling and cost-effective evaluation. , 2021, , .		1
44	Online Sequential Extreme Learning Machine Algorithm for Better Predispach Electricity Price Forecasting Grids. IEEE Transactions on Industry Applications, 2021, 57, 1860-1871.	3.3	13
45	Application of the Automatic Segmented Hilbert Huang Transform Method for the Evaluation of the Single-Event Characteristics of Voltage Sags in Power Systems. IEEE Transactions on Industry Applications, 2021, 57, 1882-1891.	3.3	4
46	An Adaptive Grounding Scheme for Synchronous-Based DG to Prevent the Generator Damage and Protection Malfunctioning During Ground Faults Under Different Operating Modes. IEEE Transactions on Industry Applications, 2021, 57, 2307-2316.	3.3	9
47	Adaptive and Predictive Energy Management Strategy for Real-Time Optimal Power Dispatch From VPPs Integrated With Renewable Energy and Energy Storage. IEEE Transactions on Industry Applications, 2021, 57, 1958-1972.	3.3	37
48	A Control Strategy to Mitigate the Sensitivity Deterioration of Overcurrent Protection in Distribution Networks With the Higher Concentration of the Synchronous and Inverter-Based DG Units. IEEE Transactions on Industry Applications, 2021, 57, 2298-2306.	3.3	16
49	A Novel Saturated Amorphous Alloy Core Based Fault Current Limiter for Improving the Low Voltage Ride Through Capability of Doubly-Fed Induction Generator Based Wind Turbines. IEEE Transactions on Industry Applications, 2021, 57, 2023-2034.	3.3	18
50	State-of-Charge Estimation of Li-ion Battery Using Gated Recurrent Unit With One-Cycle Learning Rate Policy. IEEE Transactions on Industry Applications, 2021, 57, 2964-2971.	3.3	28
51	Shunt Active DC Filter to Reduce the DC-Link Ripple Current Caused by Power Converters to Improve the Lifetime of Aluminum Electrolytic Capacitors. IEEE Transactions on Industry Applications, 2021, 57, 4306-4315.	3.3	5
52	Dynamic Modeling of HVDC for Power System Stability Assessment: A Review, Issues, and Recommendations. Energies, 2021, 14, 4829.	1.6	21
53	A Cooperative Energy Management in a Virtual Energy Hub of an Electric Transportation System Powered by PV Generation and Energy Storage. IEEE Transactions on Transportation Electrification, 2021, 7, 1123-1133.	5.3	38
54	A Novel Voltage Clamping-Based Overvoltage Protection Strategy to Avoid Spurious Trip of Inverter-Based Resources and Eliminate the Risk of Wildfire Following the REFCL Operation in Compensated Networks. IEEE Transactions on Industry Applications, 2021, 57, 4558-4568.	3.3	6

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55	A Novel Dual Slope Delta Modulation Technique for a Current Source Inverter Based Dynamic Voltage Restorer for Mitigation of Voltage Sags. IEEE Transactions on Industry Applications, 2021, 57, 5437-5447.	3.3	16
56	Modeling and Design of a Multiport Magnetic Bus-Based Novel Wind-Wave Hybrid Ocean Energy Technology. IEEE Transactions on Industry Applications, 2021, 57, 5400-5410.	3.3	4
57	Active and Reactive Power Control of PEV Fast Charging Stations Using a Consecutive Horizon-Based Energy Management Process. IEEE Transactions on Industrial Informatics, 2021, 17, 6742-6753.	7.2	15
58	Deep learning approach towards accurate state of charge estimation for lithium-ion batteries using self-supervised transformer model. Scientific Reports, 2021, 11, 19541.	1.6	56
59	A Multi-Feature Based Approach Incorporating Variable Thresholds for Detecting Price Spikes in the National Electricity Market of Australia. IEEE Access, 2021, 9, 13960-13969.	2.6	2
60	Interleaved Ultra-High Step-Up DC-DC Converters With Extendable Voltage Gains and ZVS Performance. IEEE Access, 2021, 9, 129417-129430.	2.6	10
61	A Market Framework for Energy Bidding Decision-Making Strategy to provide a Competitive Mechanism in the Context of Deregulated Electricity Market. , 2021, , .		1
62	Optimization of a Grid-Connected Microgrid Using Tidal and Wind Energy in Cook Strait. Fluids, 2021, 6, 426.	0.8	9
63	Voltage Control Set-Point Optimization of Renewable Generating Units to Minimize the Power Losses in Electricity Networks. , 2021, , .		0
64	Resilience-aware Optimal Design and Energy Management Scheme of Multi-energy Microgrids. , 2021, , .		3
65	Parameter Design and Performance Analysis of a Saturated Amorphous Alloy Core Based Fault Current Limiter for Power Grid Applications. , 2021, , .		1
66	An Improved Buck Converter with Zero Output Current Ripple and Soft-Switching Capability. , 2021, , .		0
67	Frequency Control Ancillary Services using Energy Storage in the Co-Optimized Energy Markets under Price Uncertainty. , 2021, , .		2
68	H9 and H10 Transformer-less Solar Photovoltaic Inverters for Leakage Current Suppression and Harmonic Current Reduction. , 2021, , .		3
69	A Resilient Sequential Service Restoration Framework for Unbalanced Active Distribution Networks under System Uncertainties. , 2021, , .		1
70	An Adaptive Protection Scheme for Dual-Setting Directional Recloser and Fuse Coordination for Distribution Grids with Distributed Generation. , 2021, , .		1
71	Rule-based fuzzy controller for solid state transfer switch towards fast sensitive loads transfer. , 2021, , .		1
72	Improvement of Transient Stability of the Power Grids by a Judicious Auto-Reclosing Scheme in the Presence of Synchronous-Based DGs. , 2021, , .		3

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73	A Novel Earth Fault Detection Scheme to Empower Distance Protection during Asymmetrical Power Swings with Inverter based Resources. , 2021, , .		1
74	A Novel Configuration of a Hybrid Wind-Wave Energy Harvesting System for a Remote Island. , 2021, , .		6
75	Fuzzy based BSA optimization for maximum power point tracking controller performance evaluation. , 2021, , .		1
76	Survivability-Based Protection for 3 Φ Induction Motor Drives. , 2021, , .		1
77	A Deep Neural Network Based Robust Intelligent Strategy for Microgrid Fault Diagnosis. , 2021, , .		2
78	A New Integrated Multilevel Inverter Topology for Renewable Energy Transformation. , 2021, , .		2
79	A Cooperative Planning Approach for Resilient Operation of Active Distribution Networks Integrated with VPPs under Catastrophic Emergencies. , 2021, , .		1
80	Risk of Loss of Protection Coordination in Distribution Grids with High Penetration of Distributed Energy Resources. , 2021, , .		3
81	Differential Search Optimized Random Forest Regression Algorithm for State of Charge Estimation in Electric Vehicle Batteries. , 2021, , .		3
82	A Modified PWM Scheme to Improve the Power Quality of NPC Inverter Based Solar PV Fed Induction Motor Drive for Water Pumping. , 2021, , .		8
83	Controller Design for Grid Forming Inverter-Based Power Generating Systems to Behave as Synchronous Machines. , 2021, , .		2
84	A New Single-Phase AC-DC Ąuk Converter. , 2021, , .		2
85	A New H7 Transformer-less Single-Phase Inverter to Improve the Performance of Grid-Connected Solar Photovoltaic Systems. , 2021, , .		4
86	A New Level Shifted Carrier Based PWM Technique for a 5-Level Multilevel Inverter Used in Induction Motor Drives. , 2021, , .		7
87	Dynamic Electrical Equivalent Model of Proton Exchange Membrane Electrolyzer. , 2021, , .		8
88	Modelling Ocean Waves and an Investigation of Ocean Wave Spectra for the Wave-to-Wire Model of Energy Harvesting. , 2021, 12, .		1
89	Intelligent Temperature Controller for Energy Storage System in Electric Vehicle Applications. , 2021, , .		0
90	Flexible AC Power Flow Control in Distribution Systems by Coordinated Control of Distributed Solar-PV and Battery Energy Storage Units. IEEE Transactions on Sustainable Energy, 2020, 11, 2054-2062.	5.9	40

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91	Modeling and Control of SiC-Based High-Frequency Magnetic Linked Converter for Next Generation Solid State Transformers. IEEE Transactions on Energy Conversion, 2020, 35, 549-559.	3.7	36
92	Design and Optimization of a Novel Dual-Port Linear Generator for Oceanic Wave Energy Conversion. IEEE Transactions on Industrial Electronics, 2020, 67, 3409-3418.	5.2	30
93	Distribution System Restoration With Renewable Resources for Reliability Improvement Under System Uncertainties. IEEE Transactions on Industrial Electronics, 2020, 67, 8438-8449.	5.2	36
94	Classification and Localization of Fault-Initiated Voltage Sags Using 3-D Polarization Ellipse Parameters. IEEE Transactions on Power Delivery, 2020, 35, 1812-1822.	2.9	9
95	A Coordinated Optimal Feedback Control of Distributed Generators for Mitigation of Motor Starting Voltage Sags in Distribution Networks. IEEE Transactions on Industry Applications, 2020, 56, 864-875.	3.3	14
96	State of Charge Estimation in Lithium-Ion Batteries: A Neural Network Optimization Approach. Electronics (Switzerland), 2020, 9, 1546.	1.8	43
97	Coupled Modeling and Advanced Control for Smooth Operation of a Grid-Connected Linear Electric Generator Based Wave-to-Wire System. IEEE Transactions on Industry Applications, 2020, 56, 5575-5584.	3.3	36
98	Current-based directional relaying scheme to protect series compensated transmission lines used to transmit bulk power produced by power electronics interfaced renewable energy power plants. IET Generation, Transmission and Distribution, 2020, 14, 2976-2987.	1.4	12
99	Role of optimization algorithms based fuzzy controller in achieving induction motor performance enhancement. Nature Communications, 2020, 11, 3792.	5.8	27
100	Calculation of the Voltage Sag Recovery Point-on-Wave and Sag Duration Using System Parameter. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	8
101	Model Predictive Control for a New Magnetic Linked Multilevel Inverter to Integrate Solar Photovoltaic Systems With the Power Grids. IEEE Transactions on Industry Applications, 2020, 56, 7145-7155.	3.3	25
102	Autonomous Control Strategy for Microgrid Operating Modes Smooth Transition. IEEE Access, 2020, 8, 142159-142172.	2.6	17
103	Coordinated Charging Control of Electric Vehicles While Improving Power Quality in Power Grids Using a Hierarchical Decision-Making Approach. IEEE Transactions on Vehicular Technology, 2020, 69, 12585-12596.	3.9	14
104	Detection and Characterization of Time-variant Non-stationary Voltage Sag Waveforms Using Segmented Hilbert Huang Transform. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	14
105	An Effective Power Dispatch Strategy for Clustered Micro-grids while Implementing Optimal Energy Management and Power Sharing Control using Power Line Communication. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	3
106	State-of-Charge Estimation of Li-Ion Battery in Electric Vehicles: A Deep Neural Network Approach. IEEE Transactions on Industry Applications, 2020, 56, 5565-5574.	3.3	148
107	Design and characterisation of advanced magnetic material-based core for isolated power converters used in wave energy generation systems. IET Electric Power Applications, 2020, 14, 733-741.	1.1	18
108	A Parallel Evolutionary Strategy for the Large-Scale Dynamic Optimal Reactive Power Flow. , 2020, , .		3

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109	Real-Time Estimation of Model Parameters and State-of-Charge of Li-Ion Batteries in Electric Vehicles Using a New Mixed Estimation Model. IEEE Transactions on Industry Applications, 2020, 56, 5417-5428.	3.3	19
110	Data Driven Coordinated Control of Converters in a Smart Solid State Transformer for Reliable and Automated Distribution Grids. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	21
111	Real-Time State-of-Charge Tracking Embedded in the Advanced Driver Assistance System of Electric Vehicles. IEEE Transactions on Intelligent Vehicles, 2020, 5, 497-507.	9.4	10
112	An Integrated Energy Management Approach for the Economic Operation of Industrial Microgrids Under Uncertainty of Renewable Energy. IEEE Transactions on Industry Applications, 2020, 56, 1062-1073.	3.3	48
113	State of the Art of Solid-State Transformers: Advanced Topologies, Implementation Issues, Recent Progress and Improvements. IEEE Access, 2020, 8, 19113-19132.	2.6	189
114	A Magnetic-Linked Multilevel Active Neutral Point Clamped Converter With an Advanced Switching Technique for Grid Integration of Solar Photovoltaic Systems. IEEE Transactions on Industry Applications, 2020, 56, 1990-2000.	3.3	28
115	A Judicious Decision-Making Approach for Power Dispatch in Smart Grid Using a Multiobjective Evolutionary Algorithm Based on Decomposition. IEEE Transactions on Industry Applications, 2020, 56, 1918-1929.	3.3	9
116	Enhancement of FRT Capability of DFIG Based Wind Farm by a Hybrid Superconducting Fault Current Limiter With Bias Magnetic Field. , 2020, , .		7
117	Alleviation of Voltage Variations Introduced by Unbalanced Allocation of Single-phase Loads in a Distribution Network Integrated with PVs and PEVs. , 2020, , .		4
118	An Energy Management Strategy with Advanced Power Electronic Converter and Control to Achieve Energy Resiliency and Minimum Operating Cost. , 2020, , .		2
119	A New Hybrid Multilevel Inverter Topology with Level Shifted Multi-carrier PWM Technique for Harvesting Renewable Energy. , 2020, , .		6
120	Overcurrent Protection Scheme for the IEEE 13-Node Benchmark Test Feeder with Improved Selectivity. , 2020, , .		6
121	Hidden Protection Challenges of Unbalanced Distributed Networks for Higher Concentration of Distributed Energy Resources. , 2020, , .		4
122	IoT Remote Control of Plug-in Electric Vehicle Charging Loads for Smart Energy Management of Virtual Power Plants. , 2020, , .		2
123	A Power Balance Control Architecture for Multiple Active Bridge Converter in a SolidState Transformer. , 2020, , .		2
124	Application of iron nitride compound as alternative permanent magnet for designing linear generators to harvest oceanic wave energy. IET Electric Power Applications, 2020, 14, 762-770.	1.1	17
125	An Adaptive Grounding Scheme for Synchronous Based DG to Prevent the Generator Damage during Ground Faults under Different Operating Modes. , 2020, , .		3
126	Adaptive and Predictive Energy Management Strategy for Online Optimal Power Dispatch from VPPs with Renewable Energy and Energy Storage. , 2020, , .		1

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127	Shunt Active DC Filter to Reduce the DC Link Ripple Current Caused by Power Converters to Improve the Lifetime of Aluminium Electrolytic Capacitor. , 2020, , .		0
128	Rooftop Photovoltaic System with Battery Storage to Supply Power in a Sewage Water Pumping Station based Industrial Microgrid with Zero Grid Power. , 2020, , .		1
129	A Saturated Amorphous Alloy Core-based Inrush Current Limiter. , 2020, , .		3
130	A Saturated Amorphous Alloy Core Based Smart Fault Current Limiter for Improving the Low Voltage Ride Through Capability of Distributed Generation Units. , 2020, , .		3
131	A Second Order High Performance Resonant Controller for a Three-Phase Islanded Microgrid. , 2020, , .		3
132	High Frequency Ripple Injection Signals for the Effective Utilization of Residential EV Storage in Future Power Grids with Rooftop PV System. , 2020, , .		2
133	State-of-Charge Estimation of Li-ion Battery at Variable Ambient Temperature with Gated Recurrent Unit Network. , 2020, , .		9
134	A Novel Universal Magnetic Power Plug to Facilitate V2V/V2G/G2V/V2H Connectivity for Future Grid Infrastructure. , 2020, , .		6
135	Modeling and Design of a Multiport Magnetic Bus Based Novel Wind-Wave Hybrid Ocean Energy Generation Technology. , 2020, , .		4
136	Assessment of Available Ocean Energy Resources and the Selection of the Conversion Technology for a Hybrid Wind-Wave Farm in a Coastal Site of Australia. , 2020, , .		5
137	A Control Strategy to Mitigate the Sensitivity Deterioration of Overcurrent Protection in Distribution Networks with the Higher Concentration of Synchronous and Inverter Based DG Units. , 2020, , .		1
138	Application of a Dual-slope Delta Modulated Current Source Inverter in a Dynamic Voltage Restorer to Mitigate Voltage Sags. , 2020, , .		0
139	Enhanced Frequency Regulation Using Multilevel Energy Storage in Remote Area Power Supply Systems. IEEE Transactions on Power Systems, 2019, 34, 163-170.	4.6	58
140	Transactive energy-based planning framework for VPPs in a co-optimised day-ahead and real-time energy market with ancillary services. IET Generation, Transmission and Distribution, 2019, 13, 2024-2035.	1.4	24
141	A Consecutive Energy Management Approach for a VPP Comprising Commercial Loads and Electric Vehicle Parking Lots Integrated with Solar PV Units and Energy Storage Systems. , 2019, , .		14
142	A Synchronization Control Technique For Soft Connection of Doubly Fed Induction Generator Based Wind Turbines to the Power Grids. IEEE Transactions on Industry Applications, 2019, 55, 5277-5288.	3.3	30
143	Assessing the Performance of ROCOF Relay for Anti-Islanding Protection of Distributed Generation Under Subcritical Region of Power Imbalance. IEEE Transactions on Industry Applications, 2019, 55, 5395-5405.	3.3	26
144	Investigation of LED Lighting Performance in the Presence of Ripple Injection Load Control Signals. IEEE Transactions on Industry Applications, 2019, 55, 5436-5444.	3.3	7

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145	An Efficient Energy Management Approach for a Solar-Powered EV Battery Charging Facility to Support Distribution Grids. IEEE Transactions on Industry Applications, 2019, 55, 6517-6526.	3.3	100
146	The simultaneous mitigation of slow and fast voltage fluctuations caused by rooftop solar PV by controlling the charging/discharging of an integrated battery energy storage system. Journal of Energy Storage, 2019, 26, 100971.	3.9	9
147	Analytical expressions for characterising voltage dips and phase angle jumps in electricity networks. IET Generation, Transmission and Distribution, 2019, 13, 116-126.	1.4	8
148	High Temperature Superconducting Devices and Renewable Energy Resources in Future Power Grids: A Case Study. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	20
149	Analysis and Design of a High Performance Linear Generator With High Grade Magnetic Cores and High Temperature Superconducting Coils for Oceanic Wave Energy Conversion. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	25
150	Future Power Distribution Grids: Integration of Renewable Energy, Energy Storage, Electric Vehicles, Superconductor, and Magnetic Bus. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	84
151	Short-Term Forecasting of Electricity Spot Prices Containing Random Spikes Using a Time-Varying Autoregressive Model Combined With Kernel Regression. IEEE Transactions on Industrial Informatics, 2019, 15, 5378-5388.	7.2	24
152	Characterization of amorphous magnetic materials under high-frequency non-sinusoidal excitations. AIP Advances, 2019, 9, 035004.	0.6	4
153	Investigation of the Magnetic Response of a Nanocrystalline High-Frequency Magnetic Link With Multi-Input Excitations. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	7
154	Energy management of community microgrids considering degradation cost of battery. Journal of Energy Storage, 2019, 22, 257-269.	3.9	90
155	Investigation of the Effects of DC Current Injected by Transformer-Less PV Inverters on Distribution Transformers. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	15
156	A New Magnetic-Linked Converter for Grid Integration of Offshore Wind Turbines Through MVDC Transmission. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	21
157	Electromagnetic Field-Based Control of Distributed Generator Units to Mitigate Motor Starting Voltage Dips in Power Grids. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	16
158	Protecting PFC Capacitors from Overvoltage Caused by Harmonics and System Resonance Using High Temperature Superconducting Reactors. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	8
159	A Novel Application of Magnesium Di-Boride Superconducting Energy Storage to Mitigate the Power Fluctuations of Single-Phase PV Systems. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	6
160	An Effective Power Dispatch Strategy for Clustered Micro-grids while Implementing Optimal Energy Management and Power Sharing Control using Power Line Communication. , 2019, , .		4
161	Online Sequential Extreme Learning Machine Algorithm for Better Prediction of the Real-time Electricity Price under Dynamic Environmental Changes. , 2019, , .		5
162	An Advanced Control Strategy for a Smooth Integration of Linear Generator Based Wave Energy Conversion System with Distribution Power Grids. , 2019, , .		13

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163	Time Series Variations of the Neutral-to-Ground Potential in a 4-Wire LV Network under Unbalanced Allocation of Rooftop Solar PV and Mitigation using Energy Storage. , 2019, , .		0
164	A Five Level Gird-Connected ANPC Inverter with a Novel Energy Transfer Strategy for Battery Energy Storage Systems. , 2019, , .		2
165	A New Magnetic Linked Active Neutral Point Clamp Converter for Transformer-less Direct Grid Integration of Solar Photovoltaic Systems. , 2019, , .		1
166	An Integrated Energy Management Approach for the Economic Operation of Industrial Microgrids under Uncertainty of Renewable Energy. , 2019, , .		5
167	Automated Segmentation of the Voltage sag Signal Using Hilbert Huang Transform to Calculate and Characterize the Phase Angle Jump. , 2019, , .		7
168	Nonlinear Adaptive Direct Power Controllers of DFIG-Based Wind Farms for Enhancing FRT Capabilities. , 2019, , .		15
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