

# Kashem M Muttaqi

## List of Publications by Year in descending order

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430  
papers

10,847  
citations

31902

53  
h-index

53109

85  
g-index

433  
all docs

433  
docs citations

433  
times ranked

7658  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Control Strategy for a Variable-Speed Wind Turbine With a Permanent-Magnet Synchronous Generator. IEEE Transactions on Industry Applications, 2010, 46, 331-339.	3.3	444
2	Distribution System Planning With Incorporating DG Reactive Capability and System Uncertainties. IEEE Transactions on Sustainable Energy, 2012, 3, 112-123.	5.9	307
3	A Novel Approach for Ramp-Rate Control of Solar PV Using Energy Storage to Mitigate Output Fluctuations Caused by Cloud Passing. IEEE Transactions on Energy Conversion, 2014, 29, 507-518.	3.7	294
4	Mitigation of Rooftop Solar PV Impacts and Evening Peak Support by Managing Available Capacity of Distributed Energy Storage Systems. IEEE Transactions on Power Systems, 2013, 28, 3874-3884.	4.6	264
5	Management of Battery-Supercapacitor Hybrid Energy Storage and Synchronous Condenser for Isolated Operation of PMSC Based Variable-Speed Wind Turbine Generating Systems. IEEE Transactions on Smart Grid, 2014, 5, 944-953.	6.2	207
6	A variance inflation factor and backward elimination based robust regression model for forecasting monthly electricity demand using climatic variables. Applied Energy, 2015, 140, 385-394.	5.1	205
7	Effective Utilization of Available PEV Battery Capacity for Mitigation of Solar PV Impact and Grid Support With Integrated V2G Functionality. IEEE Transactions on Smart Grid, 2016, 7, 1562-1571.	6.2	192
8	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
9	A review of topologies of three-port DC-DC converters for the integration of renewable energy and energy storage system. Renewable and Sustainable Energy Reviews, 2016, 56, 388-401.	8.2	166
10	A novel method for loss minimization in distribution networks. , 0, , .		150
11	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
12	Network reconfiguration for load balancing in distribution networks. IET Generation, Transmission and Distribution, 1999, 146, 563.	1.1	125
13	Online Voltage Control in Distribution Systems With Multiple Voltage Regulating Devices. IEEE Transactions on Sustainable Energy, 2014, 5, 617-628.	5.9	122
14	State-of-the-Art of the Medium-Voltage Power Converter Technologies for Grid Integration of Solar Photovoltaic Power Plants. IEEE Transactions on Energy Conversion, 2019, 34, 372-384.	3.7	122
15	Solar PV and Battery Storage Integration using a New Configuration of a Three-Level NPC Inverter With Advanced Control Strategy. IEEE Transactions on Energy Conversion, 2014, 29, 354-365.	3.7	109
16	Management of Low- and High-Frequency Power Components in Demand-Generation Fluctuations of a DFIG-Based Wind-Dominated RAPS System Using Hybrid Energy Storage. IEEE Transactions on Industry Applications, 2014, 50, 2258-2268.	3.3	107
17	Technical challenges for electric power industries due to grid-integrated electric vehicles in low voltage distributions: A review. Energy Conversion and Management, 2014, 86, 689-700.	4.4	104
18	A Multi-Mode Control Strategy for VAR Support by Solar PV Inverters in Distribution Networks. IEEE Transactions on Power Systems, 2015, 30, 1316-1326.	4.6	104

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19	Nonlinear Adaptive Backstepping Controller Design for Islanded DC Microgrids. IEEE Transactions on Industry Applications, 2018, 54, 2857-2873.	3.3	104
20	An Effective Power Dispatch Control Strategy to Improve Generation Schedulability and Supply Reliability of a Wind Farm Using a Battery Energy Storage System. IEEE Transactions on Sustainable Energy, 2015, 6, 1093-1102.	5.9	100
21	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
22	Standalone Operation of Wind Turbine-Based Variable Speed Generators With Maximum Power Extraction Capability. IEEE Transactions on Energy Conversion, 2012, 27, 822-834.	3.7	99
23	Behavioral Characterization of Electric Vehicle Charging Loads in a Distribution Power Grid Through Modeling of Battery Chargers. IEEE Transactions on Industry Applications, 2016, 52, 483-492.	3.3	97
24	A Three-Phase Power Flow Approach for Integrated 3-Wire MV and 4-Wire Multigrounded LV Networks With Rooftop Solar PV. IEEE Transactions on Power Systems, 2013, 28, 1728-1737.	4.6	93
25	Effective utilization of excess energy in standalone hybrid renewable energy systems for improving comfort ability and reducing cost of energy: A review and analysis. Renewable and Sustainable Energy Reviews, 2015, 42, 726-734.	8.2	93
26	Distribution expansion planning considering reliability and security of energy using modified PSO (Particle Swarm Optimization) algorithm. Energy, 2014, 65, 398-411.	4.5	92
27	A Suboptimal Power-Point-Tracking-Based Primary Frequency Response Strategy for DFIGs in Hybrid Remote Area Power Supply Systems. IEEE Transactions on Energy Conversion, 2016, 31, 93-105.	3.7	90
28	Energy management of community microgrids considering degradation cost of battery. Journal of Energy Storage, 2019, 22, 257-269.	3.9	90
29	A Coordinated Voltage Control Approach for Coordination of OLTC, Voltage Regulator, and DG to Regulate Voltage in a Distribution Feeder. IEEE Transactions on Industry Applications, 2015, 51, 1239-1248.	3.3	89
30	A new approach of distribution system reconfiguration for loss minimization. International Journal of Electrical Power and Energy Systems, 2000, 22, 269-276.	3.3	86
31	A Coordinated Design of PSSs and UPFC-based Stabilizer Using Genetic Algorithm. IEEE Transactions on Industry Applications, 2014, 50, 2957-2966.	3.3	86
32	High-voltage-gain quadratic boost converter with voltage multiplier. IET Power Electronics, 2015, 8, 2511-2519.	1.5	86
33	An Approach for Online Assessment of Rooftop Solar PV Impacts on Low-Voltage Distribution Networks. IEEE Transactions on Sustainable Energy, 2014, 5, 663-672.	5.9	84
34	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
35	Network reconfiguration for enhancement of voltage stability in distribution networks. IET Generation, Transmission and Distribution, 2000, 147, 171.	1.1	82
36	Climate change impacts on electricity demand in the State of New South Wales, Australia. Applied Energy, 2012, 98, 376-383.	5.1	82

#	ARTICLE	IF	CITATIONS
37	A Coordinated Control Approach for DC link and Rotor Crowbars to Improve Fault Ride-Through of DFIG-Based Wind Turbine. IEEE Transactions on Industry Applications, 2017, 53, 4073-4086.	3.3	80
38	Distributed Generation as Voltage Support for Single Wire Earth Return Systems. IEEE Transactions on Power Delivery, 2004, 19, 1002-1011.	2.9	78
39	A Controllable Local Peak-Shaving Strategy for Effective Utilization of PEV Battery Capacity for Distribution Network Support. IEEE Transactions on Industry Applications, 2015, 51, 2030-2037.	3.3	78
40	Control of a stand alone variable speed wind turbine with a permanent magnet synchronous generator. , 2008, , .		72
41	An Analytical Approach for Reliability Evaluation of Distribution Systems Containing Dispatchable and Nondispatchable Renewable DG Units. IEEE Transactions on Smart Grid, 2014, 5, 2657-2665.	6.2	69
42	An Effective Power Management Strategy for a Windâ€“Dieselâ€“Hydrogen-Based Remote Area Power Supply System to Meet Fluctuating Demands Under Generation Uncertainty. IEEE Transactions on Industry Applications, 2015, 51, 1228-1238.	3.3	69
43	Optimization of power system stabilizers using participation factor and genetic algorithm. International Journal of Electrical Power and Energy Systems, 2014, 55, 668-679.	3.3	65
44	Characterizing Voltage Sags and Swells Using Three-Phase Voltage Ellipse Parameters. IEEE Transactions on Industry Applications, 2015, 51, 2780-2790.	3.3	65
45	A geometrical approach for network reconfiguration based loss minimization in distribution systems. International Journal of Electrical Power and Energy Systems, 2001, 23, 295-304.	3.3	64
46	A Modified DC Chopper for Limiting the Fault Current and Controlling the DC-Link Voltage to Enhance Fault Ride-Through Capability of Doubly-Fed Induction-Generator-Based Wind Turbine. IEEE Transactions on Industry Applications, 2019, 55, 2021-2032.	3.3	63
47	Alleviation of Neutral-to-Ground Potential Rise Under Unbalanced Allocation of Rooftop PV Using Distributed Energy Storage. IEEE Transactions on Sustainable Energy, 2015, 6, 889-898.	5.9	61
48	A Novel Modulation Technique and a New Balancing Control Strategy for a Single-Phase Five-Level ANPC Converter. IEEE Transactions on Industry Applications, 2015, 51, 1215-1227.	3.3	61
49	Energy Exchange Between Electric Vehicle Load and Wind Generating Utilities. IEEE Transactions on Power Systems, 2016, 31, 1248-1258.	4.6	61
50	Distributed energy storage for mitigation of voltage-rise impact caused by rooftop solar PV. , 2012, , .		60
51	A review of technical challenges in planning and operation of remote area power supply systems. Renewable and Sustainable Energy Reviews, 2014, 38, 876-889.	8.2	60
52	Enhanced Frequency Response Strategy for a PMSG-Based Wind Energy Conversion System Using Ultracapacitor in Remote Area Power Supply Systems. IEEE Transactions on Industry Applications, 2017, 53, 549-558.	3.3	59
53	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
54	Artificial neural network approach to network reconfiguration for loss minimization in distribution networks. International Journal of Electrical Power and Energy Systems, 1998, 20, 247-258.	3.3	57

#	ARTICLE	IF	CITATIONS
55	An Algebraic Approach for Determination of DC Parameters to Support Voltage Profiles in Radial Distribution Networks. IEEE Transactions on Smart Grid, 2014, 5, 1351-1360.	6.2	57
56	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
57	A Novel Control Strategy for a Variable Speed Wind Turbine with a Permanent Magnet Synchronous Generator. , 2008, , .		55
58	Coordinated Decentralized Emergency Voltage and Reactive Power Control to Prevent Long-Term Voltage Instability in a Power System. IEEE Transactions on Power Systems, 2015, 30, 2591-2603.	4.6	55
59	Community Energy Storage for Neutral Voltage Rise Mitigation in Four-Wire Multigrounded LV Feeders With Unbalanced Solar PV Allocation. IEEE Transactions on Smart Grid, 2015, 6, 2845-2855.	6.2	54
60	Sustainable energy system design with distributed renewable resources considering economic, environmental and uncertainty aspects. Renewable Energy, 2015, 78, 165-172.	4.3	53
61	Accurate range estimation for an electric vehicle including changing environmental conditions and traction system efficiency. IET Electrical Systems in Transportation, 2017, 7, 117-124.	1.5	53
62	On the management of wind power intermittency. Renewable and Sustainable Energy Reviews, 2013, 28, 643-653.	8.2	51
63	An Approach for Assessing the Effectiveness of Multiple-Feature-Based SVM Method for Islanding Detection of Distributed Generation. IEEE Transactions on Industry Applications, 2014, 50, 2844-2852.	3.3	51
64	Assessment of energy supply and continuity of service in distribution network with renewable distributed generation. Applied Energy, 2014, 113, 1015-1026.	5.1	51
65	Integration of Plug-in Electric Vehicles Into Microgrids as Energy and Reactive Power Providers in Market Environment. IEEE Transactions on Industrial Informatics, 2016, 12, 1312-1320.	7.2	51
66	Low voltage ride-through enhancement of DFIG-based wind turbine using DC link switchable resistive type fault current limiter. International Journal of Electrical Power and Energy Systems, 2017, 86, 104-119.	3.3	50
67	Energy requirement for distributed energy resources with battery energy storage for voltage support in three-phase distribution lines. Electric Power Systems Research, 2007, 77, 10-23.	2.1	49
68	A Multifeature-Based Approach for Islanding Detection of DG in the Subcritical Region of Vector Surge Relays. IEEE Transactions on Power Delivery, 2014, 29, 2349-2358.	2.9	49
69	A Robust Power Management Strategy With Multi-Mode Control Features for an Integrated PV and Energy Storage System to Take the Advantage of ToU Electricity Pricing. IEEE Transactions on Industry Applications, 2019, 55, 2110-2120.	3.3	48
70	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
71	Smart Grid and its future perspectives in Australia. Renewable and Sustainable Energy Reviews, 2015, 51, 1375-1389.	8.2	46
72	Optimal Distributed Generation Parameters for Reducing Losses with Economic Consideration. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	45

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73	Active power management of a super capacitor-battery hybrid energy storage system for standalone operation of DFIG based wind turbines. , 2012, , .		45
74	Controllable DC-link fault current limiter augmentation with DC chopper to improve fault ride-through of DFIG. IET Renewable Power Generation, 2017, 11, 313-324.	1.7	44
75	Probabilistic load flow incorporating correlation between time-varying electricity demand and renewable power generation. Renewable Energy, 2013, 55, 532-543.	4.3	43
76	Examining the Interactions between DG Units and Voltage Regulating Devices for Effective Voltage Control in Distribution Systems. IEEE Transactions on Industry Applications, 2017, 53, 1485-1496.	3.3	43
77	State of Charge Estimation in Lithium-Ion Batteries: A Neural Network Optimization Approach. Electronics (Switzerland), 2020, 9, 1546.	1.8	43
78	Technical challenges for electric power industries with implementation of distribution system automation in smart grids. Renewable and Sustainable Energy Reviews, 2015, 46, 129-142.	8.2	42
79	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
80	Mitigation of Solar PV Intermittency Using Ramp-Rate Control of Energy Buffer Unit. IEEE Transactions on Energy Conversion, 2019, 34, 435-445.	3.7	39
81	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
82	A Decentralized Model Predictive Control for Operation of Multiple Distributed Generators in an Islanded Mode. IEEE Transactions on Industry Applications, 2017, 53, 1466-1475.	3.3	37
83	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
84	Future vision for reduction of range anxiety by using an improved state of charge estimation algorithm for electric vehicle batteries implemented with low-cost microcontrollers. IET Electrical Systems in Transportation, 2015, 5, 24-32.	1.5	36
85	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
86	Distribution System Restoration With Renewable Resources for Reliability Improvement Under System Uncertainties. IEEE Transactions on Industrial Electronics, 2020, 67, 8438-8449.	5.2	36
87	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
88	Damping of low-frequency oscillations and improving power system stability via auto-tuned PI stabilizer using Takagi-Sugeno fuzzy logic. International Journal of Electrical Power and Energy Systems, 2012, 38, 72-83.	3.3	35
89	A New Approach for Classification and Characterization of Voltage Dips and Swells Using 3-D Polarization Ellipse Parameters. IEEE Transactions on Power Delivery, 2015, 30, 1344-1353.	2.9	31
90	A novel control strategy to mitigate slow and fast fluctuations of the voltage profile at common coupling Point of rooftop solar PV unit with an integrated hybrid energy storage system. Journal of Energy Storage, 2018, 20, 409-417.	3.9	31

#	ARTICLE	IF	CITATIONS
91	Enhanced Frequency Support From a PMSG-Based Wind Energy Conversion System Integrated With a High Temperature SMES in Standalone Power Supply Systems. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.1	31
92	Voltage support by distributed generation units and shunt capacitors in distribution systems. , 2009, , .		30
93	A SAX-Based Advanced Computational Tool for Assessment of Clustered Rooftop Solar PV Impacts on LV and MV Networks in Smart Grid. IEEE Transactions on Smart Grid, 2013, 4, 577-585.	6.2	30
94	Optimum Resistive Type Fault Current Limiter: An Efficient Solution to Achieve Maximum Fault Ride-Through Capability of Fixed-Speed Wind Turbines During Symmetrical and Asymmetrical Grid Faults. IEEE Transactions on Industry Applications, 2017, 53, 538-548.	3.3	30
95	Customer reward-based demand response program to improve demand elasticity and minimise financial risk during price spikes. IET Generation, Transmission and Distribution, 2018, 12, 3764-3771.	1.4	30
96	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
97	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
98	Multistage time-variant electric vehicle load modelling for capturing accurate electric vehicle behaviour and electric vehicle impact on electricity distribution grids. IET Generation, Transmission and Distribution, 2015, 9, 2705-2716.	1.4	29
99	DC-link fault current limiter-based fault ride-through scheme for inverter-based distributed generation. IET Renewable Power Generation, 2015, 9, 690-699.	1.7	29
100	A Decentralized Multiagent-Based Voltage Control for Catastrophic Disturbances in a Power System. IEEE Transactions on Industry Applications, 2015, 51, 1201-1214.	3.3	29
101	Driver alerting system using range estimation of electric vehicles in real time under dynamically varying environmental conditions. IET Electrical Systems in Transportation, 2016, 6, 107-116.	1.5	29
102	Evaluating the effectiveness of a machine learning approach based on response time and reliability for islanding detection of distributed generation. IET Renewable Power Generation, 2017, 11, 1392-1400.	1.7	29
103	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
104	Control issues of distribution system automation in smart grids. Renewable and Sustainable Energy Reviews, 2014, 37, 386-396.	8.2	28
105	Online Coordinated Voltage Control in Distribution Systems Subjected to Structural Changes and DG Availability. IEEE Transactions on Smart Grid, 2015, , 1-12.	6.2	28
106	The state of the art of battery charging infrastructure for electrical vehicles: Topologies, power control strategies, and future trend. , 2017, , .		28
107	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
108	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

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109	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
110	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
111	MIP-Based Stochastic Security-Constrained Daily Hydrothermal Generation Scheduling. IEEE Systems Journal, 2015, 9, 615-628.	2.9	27
112	Role of optimization algorithms based fuzzy controller in achieving induction motor performance enhancement. Nature Communications, 2020, 11, 3792.	5.8	27
113	Remote Area Power Supply System: An Integrated Control Approach Based on Active Power Balance. IEEE Industry Applications Magazine, 2015, 21, 63-76.	0.3	26
114	An Intelligent Driver Alerting System for Real-Time Range Indicator Embedded in Electric Vehicles. IEEE Transactions on Industry Applications, 2017, 53, 1751-1760.	3.3	26
115	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
116	Black start with dfig based distributed generation after major emergencies. , 2006, , .		25
117	Renewable energy management in a remote area using Modified Gravitational Search Algorithm. Energy, 2016, 97, 391-399.	4.5	25
118	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
119	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
120	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
121	Nonlinear adaptive backstepping controller design for controlling bidirectional power flow of BESSs in DC microgrids. , 2016, , .		24
122	A Distributed Multi-Agent Based Emergency Control Approach Following Catastrophic Disturbances in Interconnected Power Systems. IEEE Transactions on Power Systems, 2016, 31, 2764-2775.	4.6	24
123	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
124	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
125	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
126	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

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127	Climate change mitigation with integration of renewable energy resources in the electricity grid of New South Wales, Australia. <i>Renewable Energy</i> , 2014, 66, 305-313.	4.3	22
128	Uncertainty management in multiobjective hydro-thermal self-scheduling under emission considerations. <i>Applied Soft Computing Journal</i> , 2015, 37, 737-750.	4.1	22
129	An Adaptive Overcurrent Protection Scheme for Dual-Setting Directional Recloser and Fuse Coordination in Unbalanced Distribution Networks With Distributed Generation. <i>IEEE Transactions on Industry Applications</i> , 2022, 58, 1831-1842.	3.3	22
130	LOSS REDUCTION IN DISTRIBUTION NETWORKS USING NEW NETWORK RECONFIGURATION ALGORITHM. <i>Electric Power Components and Systems</i> , 1998, 26, 815-829.	0.1	21
131	A Noniterative Method to Estimate Load Carrying Capability of Generating Units in a Renewable Energy Rich Power Grid. <i>IEEE Transactions on Sustainable Energy</i> , 2014, 5, 854-865.	5.9	21
132	A Real-Time Range Indicator for EVs Using Web-Based Environmental Data and Sensorless Estimation of Regenerative Braking Power. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 4743-4756.	3.9	21
133	A New Magnetic-Linked Converter for Grid Integration of Offshore Wind Turbines Through MVDC Transmission. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.1	21
134	Islanding Detection of Distributed Generation Based on Rate of Change of Exciter Voltage With Circuit Breaker Switching Strategy. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 954-963.	3.3	21
135	Data Driven Coordinated Control of Converters in a Smart Solid State Transformer for Reliable and Automated Distribution Grids. <i>IEEE Transactions on Industry Applications</i> , 2020, , 1-1.	3.3	21
136	Dynamic Modeling of HVDC for Power System Stability Assessment: A Review, Issues, and Recommendations. <i>Energies</i> , 2021, 14, 4829.	1.6	21
137	A New Hybrid Multilevel Inverter Topology With Level Shifted Multicarrier PWM Technique for Harvesting Renewable Energy. <i>IEEE Transactions on Industry Applications</i> , 2022, 58, 2574-2585.	3.3	21
138	Response coordination of distributed generation and tap changers for voltage support. , 2007, , .		20
139	Multivariable Offset-Free Model Predictive Control for Quadruple Tanks System. <i>IEEE Transactions on Industry Applications</i> , 2016, 52, 1882-1890.	3.3	20
140	High Temperature Superconducting Devices and Renewable Energy Resources in Future Power Grids: A Case Study. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-4.	1.1	20
141	Multi-objective Phasor Measurement Unit Placement in Electric Power Networks: Integer Linear Programming Formulation. <i>Electric Power Components and Systems</i> , 2015, 43, 1902-1911.	1.0	19
142	Real-Time Estimation of Model Parameters and State-of-Charge of Li-Ion Batteries in Electric Vehicles Using a New Mixed Estimation Model. <i>IEEE Transactions on Industry Applications</i> , 2020, 56, 5417-5428.	3.3	19
143	Short term wind power forecasting using adaptive neuro-fuzzy inference systems. , 2007, , .		18
144	The seven-level flying capacitor based ANPC converter for grid intergration of utility-scale PV systems. , 2012, , .		18

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145	Design and characterisation of advanced magnetic materialâ€based core for isolated power converters used in wave energy generation systems. IET Electric Power Applications, 2020, 14, 733-741.	1.1	18
146	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
147	Control Stabilisation of an Islanded System with DFIC Wind Turbine. , 2006, , .		17
148	Control Dynamics of a doubly fed induction generator under sub- and super-synchronous modes of operation. , 2008, , .		17
149	Multi-objective optimisation for distribution system planning with renewable energy resources. , 2010, , .		17
150	Multi-agent receding horizon control with neighbour-to-neighbour communication for prevention of voltage collapse in a multi-area power system. IET Generation, Transmission and Distribution, 2014, 8, 1604-1615.	1.4	17
151	A new high impedance fault detection scheme: Fourier based approach. , 2016, , .		17
152	An Advance Modulation Technique for Single-Phase Voltage Source Inverter to Integrate SMES Into Low-Voltage Distribution. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	17
153	Autonomous Control Strategy for Microgrid Operating Modes Smooth Transition. IEEE Access, 2020, 8, 142159-142172.	2.6	17
154	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
155	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
156	Optimal Algorithms for Energy Storage Systems in Microgrid Applications: An Analytical Evaluation Towards Future Directions. IEEE Access, 2022, 10, 10105-10123.	2.6	17
157	Analysis of harmonics and voltage fluctuation using different models of Arc furnace. , 2007, , .		16
158	Control coordination of a wind turbine generator and a battery storage unit in a Remote Area Power Supply system. , 2010, , .		16
159	A control approach for voltage and frequency regulation of a Wind-Diesel-battery based hybrid remote area power supply system. , 2010, , .		16
160	A coordinated voltage control approach for coordination of OLTC, voltage regulator and DG to regulate voltage in a distribution feeder. , 2013, , .		16
161	An Optimal Robust Excitation Controller Design Considering the Uncertainties in the Exciter Parameters. IEEE Transactions on Power Systems, 2017, 32, 4171-4179.	4.6	16
162	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

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