

O A Mohammed

List of Publications by Year in descending order

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545
papers

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times ranked

8508
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Adaptive Neural Network Tracking Control With Optimized Super-Twisting Sliding-Mode Technique for Induction Motor Drive System. IEEE Transactions on Industry Applications, 2022, 58, 4134-4157.	3.3	21
2	Distributed Secondary Control in Microgrids Using Synchronous Condenser for Voltage and Frequency Support. Energies, 2022, 15, 2968.	1.6	5
3	A Voltage-Quadrupler Interleaved Bidirectional DC-DC Converter With Intrinsic Equal Current Sharing Characteristic for Electric Vehicles. IEEE Transactions on Industrial Electronics, 2021, 68, 1803-1813.	5.2	27
4	A New SEPIC-Based Step-Up DC-DC Converter With Wide Conversion Ratio for Fuel Cell Vehicles: Analysis and Design. IEEE Transactions on Industrial Electronics, 2021, 68, 6390-6400.	5.2	30
5	Detection of TTF in Induction Motor Vector Drives for EV Applications via α -Based DDWE. IEEE Transactions on Transportation Electrification, 2021, 7, 114-132.	5.3	7
6	Real-Time metadata-driven routing optimization for electric vehicle energy consumption minimization using deep reinforcement learning and Markov chain model. Electric Power Systems Research, 2021, 192, 106962.	2.1	29
7	Parameter Identification Based Online Noninvasive Estimation of Rotor Temperature in Induction Motors. IEEE Transactions on Industry Applications, 2021, 57, 417-426.	3.3	22
8	CPS Attacks Mitigation Approaches on Power Electronic Systems With Security Challenges for Smart Grid Applications: A Review. IEEE Access, 2021, 9, 38571-38601.	2.6	22
9	Robust Optimal Control of High-Speed Permanent-Magnet Synchronous Motor Drives via Self-Constructing Fuzzy Wavelet Neural Network. IEEE Transactions on Industry Applications, 2021, 57, 999-1013.	3.3	25
10	Two-stage dynamic management in energy communities using a decision system based on elastic net regularization. Applied Energy, 2021, 291, 116852.	5.1	22
11	An Improved Core Loss Model of Ferromagnetic Materials Considering High-Frequency and Nonsinusoidal Supply. IEEE Transactions on Industry Applications, 2021, 57, 4336-4346.	3.3	14
12	Two-Stage Optimization Strategy for Solving the VVO Problem Considering High Penetration of Plug-In Electric Vehicles to Unbalanced Distribution Networks. IEEE Transactions on Industry Applications, 2021, 57, 3425-3440.	3.3	14
13	Improved Rotor Bar Shape in High-Voltage Large-Power Induction Motors to Eliminate Hotspot and Avoid Broken Bars. IEEE Transactions on Industry Applications, 2021, 57, 4606-4616.	3.3	4
14	IEC 61850-Based Communication Networks of Distribution System against Cyber and Physical Failures. World Electric Vehicle Journal, 2021, 12, 155.	1.6	0
15	Dynamic Real-Time Pricing Mechanism for Electric Vehicles Charging Considering Optimal Microgrids Energy Management System. IEEE Transactions on Industry Applications, 2021, 57, 5372-5381.	3.3	36
16	MRAS-Based Super-Twisting Sliding-Mode Estimator Combined With Block Control and DTC of Six-Phase Induction Motor for Ship Propulsion Application. IEEE Transactions on Industry Applications, 2021, 57, 6646-6658.	3.3	11
17	Decentralized Control Algorithm for the Hybrid Energy Storage of Shipboard Power System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 720-731.	3.7	24
18	A New Single-Switch Structure of a DC-DC Converter With Wide Conversion Ratio for Fuel Cell Vehicles: Analysis and Development. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2785-2800.	3.7	39

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19	An intelligent protection scheme to deal with extreme fault currents in smart power systems. International Journal of Electrical Power and Energy Systems, 2020, 115, 105434.	3.3	14
20	A New Hybrid Structure of a Bidirectional DC-DC Converter With High Conversion Ratios for Electric Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 194-206.	3.9	45
21	An Enhancement of Protection Strategy for Distribution Network Using the Communication Protocols. IEEE Transactions on Industry Applications, 2020, 56, 1240-1249.	3.3	26
22	An Integrated Interleaved Ultrahigh Step-Up DC-DC Converter Using Dual Cross-Coupled Inductors With Built-In Input Current Balancing for Electric Vehicles. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 644-657.	3.7	58
23	Robust Electromagnetic Design of Double-Canned IM for Submersible Rim Driven Thrusters to Reduce Losses and Vibration. IEEE Transactions on Energy Conversion, 2020, 35, 2045-2055.	3.7	8
24	Differential Mathematical Morphological-Based Online Diagnosis of Stator Interturn Failures in Direct Torque Control Drive Systems. IEEE Transactions on Industry Applications, 2020, 56, 6272-6285.	3.3	5
25	A High-Speed Microturbine PMA-SynRG Emulation Using Power Hardware-in-the-Loop for Wind Energy Conversion Systems. IEEE Access, 2020, 8, 194612-194622.	2.6	5
26	IoT-Based Digital Twin for Energy Cyber-Physical Systems: Design and Implementation. Energies, 2020, 13, 4762.	1.6	63
27	Modeling of Anisotropic Magnetostriction Under DC Bias Based on an Optimized BP Neural Network. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	24
28	On the Implementation of IoT-Based Digital Twin for Networked Microgrids Resiliency Against Cyber Attacks. IEEE Transactions on Smart Grid, 2020, 11, 5138-5150.	6.2	108
29	Hybrid Microgrid Energy Management and Control Based on Metaheuristic-Driven Vector-Decoupled Algorithm Considering Intermittent Renewable Sources and Electric Vehicles Charging Lot. Energies, 2020, 13, 3423.	1.6	19
30	Optimal Design of High-speed Solid Rotor Cage Induction Motors Considering Ferromagnetic Materials Behavior and Manufacturing Process. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	7
31	Data-Centric Communication Framework for Multicast IEC 61850 Routable GOOSE Messages over the WAN in Modern Power Systems. Applied Sciences (Switzerland), 2020, 10, 848.	1.3	10
32	Optimal power routing scheme between and within interlinking converters in unbalanced hybrid AC-DC microgrids. IET Generation, Transmission and Distribution, 2020, 14, 368-378.	1.4	4
33	Coordination of Hybrid Energy Storage for Ship Power Systems With Pulsed Loads. IEEE Transactions on Industry Applications, 2020, 56, 1136-1145.	3.3	34
34	Automated Distributed Electric Vehicle Controller for Residential Demand Side Management. IEEE Transactions on Industry Applications, 2019, 55, 16-25.	3.3	52
35	Testing and Assessment of EMFs and Touch Currents From 25-kW IPT System for Medium-Duty EVs. IEEE Transactions on Vehicular Technology, 2019, 68, 7477-7487.	3.9	29
36	Co-Simulation of Improved AIMD Algorithm for Decentralized Charging of Electric Vehicles. , 2019, , .		0

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37	Sectional Variable Frequency and Voltage Regulation Control Strategy for Energy Saving in Beam Pumping Motor Systems. IEEE Access, 2019, 7, 92456-92464.	2.6	13
38	On-line Monitoring of Stator Inter-Turn Failures in DTC driven Asynchronous Motors using Mathematical Morphological Gradient. , 2019, , .		7
39	A Hardware-in-the-Loop Realization of Speed Sensorless Control of PMA-SynRM With Steady-State and Transient Performances Enhancement. IEEE Transactions on Industry Applications, 2019, 55, 5331-5342.	3.3	16
40	Single and Multiobjective Optimal Reactive Power Dispatch Based on Hybrid Artificial Physicsâ€“Particle Swarm Optimization. Energies, 2019, 12, 2333.	1.6	42
41	The IEC 61850 Sampled Measured Values Protocol: Analysis, Threat Identification, and Feasibility of Using NN Forecasters to Detect Spoofed Packets. Energies, 2019, 12, 3731.	1.6	21
42	Experimental Verification of a Double-Input Soft-Switched DCâ€“DC Converter for Fuel Cell Electric Vehicle With Hybrid Energy Storage System. IEEE Transactions on Industry Applications, 2019, 55, 6451-6465.	3.3	17
43	Coordinated Control Scheme for Electric Vehicles Connected to Droop-Controlled MicroGrids. , 2019, , .		6
44	A Synthetic Case Study for Analysis of the Rising Interdependency Between the Power Grid and E-Mobility. IEEE Access, 2019, 7, 58802-58809.	2.6	7
45	The IEC 61850 Sampled Measured Values Protocol: Analysis, Threat Identification, and Feasibility of Using NN Forecasters to Detect of Spoofed Packets. , 2019, , .		3
46	An Optimal Energy Management System for Real-Time Operation of Multiagent-Based Microgrids Using a T-Cell Algorithm. Energies, 2019, 12, 3004.	1.6	8
47	Experimental Verification of the Effect of Uncoordinated Charging of Electric Vehicles on Power Grids. , 2019, , .		6
48	On-Line Detection of Stator Faults in DTC-Driven IM Using SC Impedance Matrix Off-Diagonal Term. IEEE Transactions on Industry Applications, 2019, 55, 5906-5915.	3.3	22
49	A Bipolar DC-DC Converter with Wide Voltage-Gain Range for Energy Storage Integration in Ship Power Systems. , 2019, , .		5
50	Modeling and Simulation of DC Electric Rail Transit Systems With Wayside Energy Storage. IEEE Transactions on Vehicular Technology, 2019, 68, 2218-2228.	3.9	49
51	Stator Fault Detection on DTC-Driven IM via Magnetic Signatures Aided by 2-D FEA Co-Simulation. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	36
52	Small-signal model predictive control based resilient energy storage management strategy for all electric ship MVDC voltage stabilization. Journal of Energy Storage, 2019, 21, 370-382.	3.9	14
53	Bilayer Predictive Power Flow Controller for Bidirectional Operation of Wirelessly Connected Electric Vehicles. IEEE Transactions on Industry Applications, 2019, 55, 4258-4267.	3.3	19
54	Smart Integration of a DC Microgrid: Enhancing the Power Quality Management of the Neighborhood Low-Voltage Distribution Network. Inventions, 2019, 4, 25.	1.3	3

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55	Experimental Demonstration of a Modular, Quasi-Resonant Bidirectional DC-DC Converter Using GaN Switches for Electric Vehicles. IEEE Transactions on Industry Applications, 2019, 55, 7787-7803.	3.3	19
56	Investigation of Protection Strategy for Microgrid System Using Lithium-Ion Battery During Islanding. IEEE Transactions on Industry Applications, 2019, 55, 3411-3420.	3.3	19
57	Modeling of Magnetostrictive Property of Electrical Steel Sheet Under Vectorial Excitation. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	14
58	Smart Control of Fleets of Electric Vehicles in Smart and Connected Communities. IEEE Transactions on Smart Grid, 2019, 10, 6883-6897.	6.2	30
59	A Single-Switch Transformerless DC-DC Converter With Universal Input Voltage for Fuel Cell Vehicles: Analysis and Design. IEEE Transactions on Vehicular Technology, 2019, 68, 4537-4549.	3.9	59
60	PWM Plus Phase-Shift-Modulated Three-Port Three-Level Soft-Switching Converter Using GaN Switches for Photovoltaic Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 636-652.	3.7	25
61	A Family of Three-Port Three-Level Converter Based on Asymmetrical Bidirectional Half-Bridge Topology for Fuel Cell Electric Vehicle Applications. IEEE Transactions on Power Electronics, 2019, 34, 11706-11724.	5.4	56
62	A secured distributed control system for future interconnected smart grids. Applied Energy, 2019, 243, 57-70.	5.1	26
63	Hybrid Energy Storage Sizing and Power Splitting Optimization for Plug-In Electric Vehicles. IEEE Transactions on Industry Applications, 2019, 55, 2252-2262.	3.3	89
64	Collective Distribution of Mobile Loads for Optimal and Secure Operation of Power Systems. , 2019, , .		1
65	Optimal Design of High-speed Solid Rotor Cage Induction Motors Considering Ferromagnetic Materials Behavior and Manufacturing Process. , 2019, , .		1
66	A Fault Clearing for Microgrid Protection System Utilized the Communication Network with Centralized Approach. , 2019, , .		5
67	Robust Optimal Control of High-Speed Permanent-Magnet Synchronous Motor Drives via Self-Constructing Fuzzy Wavelet Neural Network. , 2019, , .		1
68	Enhancement of Protection Scheme for Distribution System Using the Communication Network. , 2019, , .		5
69	Wavelet Transformation-Based Diagnosis of Turn-to-Turn Faults in Vector Control Drive system. , 2019, , .		7
70	A Framework for Analyzing and Testing Cyber-Physical Interactions for Smart Grid Applications. Electronics (Switzerland), 2019, 8, 1455.	1.8	6
71	Intelligent Power Management for the Hybrid Energy Storage of the Ship Power System. , 2019, , .		1
72	Online Estimation of Rotor Temperature in Induction Motors Based on Parameter Identification. , 2019, , .		3

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73	Design of Loosely Coupled Transformer of Wireless Power Transfer for Higher Misalignment Tolerance of System Efficiency. , 2019, , .		3
74	Design and Experimental Verification of a High-Voltage Series-Stacked GaN eHEMT Module for Electric Vehicle Applications. IEEE Transactions on Transportation Electrification, 2019, 5, 31-47.	5.3	20
75	Design and Implementation of a New Transformerless Bidirectional DC-DC Converter With Wide Conversion Ratios. IEEE Transactions on Industrial Electronics, 2019, 66, 7067-7077.	5.2	58
76	A Bilateral Decision Support Platform for Public Charging of Connected Electric Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 129-140.	3.9	18
77	Recuperation of Regenerative Braking Energy in Electric Rail Transit Systems. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2831-2847.	4.7	149
78	Data-Centric Hierarchical Distributed Model Predictive Control for Smart Grid Energy Management. IEEE Transactions on Industrial Informatics, 2019, 15, 4086-4098.	7.2	29
79	Communication-Based Control for DC Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 2180-2195.	6.2	59
80	A Multiagent-Based Game-Theoretic and Optimization Approach for Market Operation of Multimicrogrid Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 280-292.	7.2	83
81	Coil Design Optimization of Power Pad in IPT System for Electric Vehicle Applications. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	48
82	A Kriging-Assisted Light Beam Search Method for Multi-Objective Electromagnetic Inverse Problems. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	16
83	Physics-Based Co-Simulation Platform With Analytical and Experimental Verification for Bidirectional IPT System in EV Applications. IEEE Transactions on Vehicular Technology, 2018, 67, 275-284.	3.9	22
84	Utilization of Supercapacitors in Protection Schemes for Resiliency Against Communication Outages: A Case Study on Size and Cost Optimization. IEEE Transactions on Industry Applications, 2018, 54, 3153-3164.	3.3	18
85	Bilayer Multi-Objective Optimal Allocation and Sizing of Electric Vehicle Parking Garage. IEEE Transactions on Industry Applications, 2018, 54, 1992-2001.	3.3	30
86	A Review of Communication Failure Impacts on Adaptive Microgrid Protection Schemes and the Use of Energy Storage as a Contingency. IEEE Transactions on Industry Applications, 2018, 54, 1194-1207.	3.3	116
87	The Internet of Microgrids: A Cloud-Based Framework for Wide Area Networked Microgrids. IEEE Transactions on Industrial Informatics, 2018, 14, 1262-1274.	7.2	77
88	Design of an all-GaN bidirectional DC-DC converter for medium voltage DC ship power systems using series-stacked GaN modules. , 2018, , .		12
89	A DDS-Based Energy Management Framework for Small Microgrid Operation and Control. IEEE Transactions on Industrial Informatics, 2018, 14, 958-968.	7.2	29
90	Development and Application of a Real-Time Testbed for Multiagent System Interoperability: A Case Study on Hierarchical Microgrid Control. IEEE Transactions on Smart Grid, 2018, 9, 1759-1768.	6.2	88

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91	Condition monitoring of power components in electric grid using electromagnetic stray fields. Electrical Engineering, 2018, 100, 499-508.	1.2	3
92	Fuzzy Predictive DTC of Induction Machines With Reduced Torque Ripple and High-Performance Operation. IEEE Transactions on Power Electronics, 2018, 33, 2580-2587.	5.4	32
93	Modeling the Impact of the Vehicle-to-Grid Services on the Hourly Operation of the Power Distribution Grid. Designs, 2018, 2, 55.	1.3	7
94	The Digital Power Networks: Energy Dissemination Through a Micro-Grid. , 2018, , .		3
95	Computational methods based laplace decomposition for solving nonlinear system of fractional order differential equations. AEJ - Alexandria Engineering Journal, 2018, 57, 3549-3557.	3.4	26
96	Microgrid Stability Improvement using a Fuzzy-Based PSS Design for Virtual Synchronous Generator. , 2018, , .		6
97	Development of Protection Scheme for Active Distribution Systems with Penetration of Distributed Generation. , 2018, , .		0
98	Game-theory-based Real-Time Inter-Microgrid Market Design Using Hierarchical Optimization Algorithm. , 2018, , .		2
99	A Three-Level Boost Converter with an Extended Gain and Reduced Voltage Stress using WBG Devices. , 2018, , .		1
100	GPS Synchronization of Smart Distributed Converters for Microgrid Applications. Energies, 2018, 11, 695.	1.6	2
101	A Bidirectional Buck-boost Converter Using 1.3kV Series-Stacked GaN E-HEMT Modules for Electric Vehicle Charging Application. , 2018, , .		1
102	A Soft-Switched DC/DC Converter Using Integrated Dual Half-Bridge with High Voltage Gain and Low Voltage Stress for DC Microgrid Applications. Inventions, 2018, 3, 63.	1.3	7
103	Pre-Processing of Energy Demand Disaggregation Based Data Mining Techniques for Household Load Demand Forecasting. Inventions, 2018, 3, 45.	1.3	16
104	Physical-Model-Checking to Detect Switching-Related Attacks in Power Systems. Sensors, 2018, 18, 2478.	2.1	5
105	Intelligent Control Framework for Energy Storage Management on MVDC Ship Power System. , 2018, , .		5
106	A New Three-Level Flying-Capacitor Boost Converter with an Integrated LC2D Output Network for Fuel-Cell Vehicles: Analysis and Design. Inventions, 2018, 3, 61.	1.3	8
107	A Multi-input DC-DC Converter with AC-DC PFC Buck-boost Stage for Hybrid Energy storage Systems. , 2018, , .		4
108	Control and Voltage Stability of A Medium Voltage DC Micro-Grid Involving Pulsed Load. , 2018, , .		4

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109	Analysis of the Impact of Stator Interturn Short-Circuit Faults on Induction Machines Driven by Direct Torque Control. IEEE Transactions on Energy Conversion, 2018, 33, 1463-1474.	3.7	24
110	Wide area condition monitoring of power electric drives in wind power generation system using radiated electromagnetic fields. IET Power Electronics, 2018, 11, 876-883.	1.5	5
111	An Automated Charger for Large-Scale Adoption of Electric Vehicles. IEEE Transactions on Transportation Electrification, 2018, 4, 971-984.	5.3	12
112	Charge Control and Operation of Electric Vehicles in Power Grids: A Review. Energies, 2018, 11, 701.	1.6	46
113	Online fault detection of stator winding faults in IM driven by DTC using the off-diagonal term of the symmetrical component impedance matrix. , 2018, , .		8
114	Multi-Objective Optimization Technique for the Operation of Grid tied PV Powered EV Charging Station. Electric Power Systems Research, 2018, 164, 201-211.	2.1	80
115	Experimental evaluation of power distribution to reactive loads in a network-controlled delivery grid. , 2018, , .		2
116	Household Load Forecasting Based on a Pre-Processing Non-Intrusive Load Monitoring Techniques. , 2018, , .		9
117	Protection of Autonomous Microgrids Using Agent-Based Distributed Communication. IEEE Transactions on Power Delivery, 2017, 32, 351-360.	2.9	90
118	Multiagent-Based Optimal Microgrid Control Using Fully Distributed Diffusion Strategy. IEEE Transactions on Smart Grid, 2017, 8, 1997-2008.	6.2	114
119	Utilizing supercapacitors for resiliency enhancements and adaptive microgrid protection against communication failures. Electric Power Systems Research, 2017, 145, 223-233.	2.1	66
120	Magnetic Design Considerations of Bidirectional Inductive Wireless Power Transfer System for EV Applications. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	39
121	EMI Reduction of PMSM Drive Through Matrix Converter Controlled With Wide-Bandgap Switches. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	9
122	An Integrated Characterization Model and Multiobjective Optimization for the Design of an EV Charger's Circular Wireless Power Transfer Pads. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	29
123	Multi-Agent-Based Technique for Fault Location, Isolation, and Service Restoration. IEEE Transactions on Industry Applications, 2017, 53, 1841-1851.	3.3	80
124	Study of Battery Voltage Behavior Under Loading and Charging Conditions Using 3DFEM. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	0
125	Condition Monitoring of Electric Components Using 3-D Printed Multiple Magnetic Coil Antennas. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	3
126	Impact of Inter-Turn Short-Circuit Location on Induction Machines Parameters Through FE Computations. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	25

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127	Hierarchical control for DC microgrid clusters with high penetration of distributed energy resources. <i>Electric Power Systems Research</i> , 2017, 148, 210-219.	2.1	38
128	Power Quality Improvements for Integration of Hybrid AC/DC Nanogrids to Power Systems. , 2017, , .		7
129	Decentralized Multi-Agent System for Protection and the Power Restoration Process in Microgrids. , 2017, , .		21
130	Coordinated Power Management for the Integration of Active Distribution Networks with High PV Penetration into the Medium Voltage Grid. , 2017, , .		9
131	Modeling and Assessment Analysis of Various Compensation Topologies in Bidirectional IWPT System for EV Applications. <i>IEEE Transactions on Industry Applications</i> , 2017, 53, 4973-4984.	3.3	64
132	AC Microgrid Control Using Adaptive Synchronous Reference Frame PLL. , 2017, , .		3
133	Vehicle side predictive power-flow control of bidirectional WPT system for EV ancillary services. , 2017, , .		9
134	Adaptive real-time congestion management in smart power systems using a real-time hybrid optimization algorithm. <i>Electric Power Systems Research</i> , 2017, 150, 118-128.	2.1	35
135	Adaline and Recursive Least Square Error Based Techniques for Submodule Voltage Monitoring for the Cascaded High Frequency AC Link System. , 2017, , .		2
136	Fuzzy logic-based autonomous controller for electric vehicles charging under different conditions in residential distribution systems. <i>Electric Power Systems Research</i> , 2017, 148, 48-58.	2.1	40
137	Modeling and Feasibility Analysis of Quasi-Dynamic WPT System for EV Applications. <i>IEEE Transactions on Transportation Electrification</i> , 2017, 3, 343-353.	5.3	84
138	Experimental Validation of Comprehensive Steady-State Analytical Model of Bidirectional WPT System in EVs Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2017, 66, 5584-5594.	3.9	71
139	Deployment of electric vehicles in an adaptive protection technique for riding through cyber attack threats in microgrids. , 2017, , .		11
140	DC-BUS voltage ripple minimization of distributed DC-DC converters based on phase shifting theory. , 2017, , .		1
141	A multi-level bi-directional buck-boost converter using GaN devices for electric vehicle applications. , 2017, , .		14
142	A quasi-resonant bi-directional buck-boost converter for Electric Vehicle applications. , 2017, , .		9
143	Optimal sizing of inverters and energy storage for power oscillation limiting in grid connected large scale Electric Vehicle park with renewable energy. , 2017, , .		12
144	Stator winding inter-turn fault in induction machines: Complex-vector transient and steady-state modelling. , 2017, , .		5

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145	On the adaptive protection of microgrids: A review on how to mitigate cyber attacks and communication failures. , 2017, , .		25
146	Coordinated control for the integration of a large scale electric vehicle park with PV into the MV grid. , 2017, , .		13
147	A Survey on Smart Grid Cyber-Physical System Testbeds. IEEE Communications Surveys and Tutorials, 2017, 19, 446-464.	24.8	281
148	Behavior Modeling and Auction Architecture of Networked Microgrids for Frequency Support. IEEE Transactions on Industrial Informatics, 2017, 13, 1772-1782.	7.2	26
149	Protection of multi-terminal and distributed DC systems: Design challenges and techniques. Electric Power Systems Research, 2017, 143, 715-727.	2.1	68
150	Design and Hardware Implementation of FL-MPPT Control of PV Systems Based on GA and Small-Signal Analysis. IEEE Transactions on Sustainable Energy, 2017, 8, 279-290.	5.9	96
151	Control of a Hybrid AC/DC Microgrid Involving Energy Storage and Pulsed Loads. IEEE Transactions on Industry Applications, 2017, 53, 567-575.	3.3	138
152	Solving the Multivariant EV Routing Problem Incorporating V2G and G2V Options. IEEE Transactions on Transportation Electrification, 2017, 3, 238-248.	5.3	72
153	Complex-Vector Model of Interturn Failure in Induction Machines for Fault Detection and Identification. IEEE Transactions on Industry Applications, 2017, 53, 2667-2678.	3.3	30
154	An artificially intelligent physical model-checking approach to detect switching-related attacks on power systems. , 2017, , .		4
155	Cyber-air-gapped detection of controller attacks through physical interdependencies. , 2017, , .		1
156	Linear autonomous control of electric vehicles charging in distribution systems. , 2017, , .		2
157	Optimal real-time congestion management in power markets based on particle swarm optimization. , 2017, , .		5
158	A cascaded high frequency AC link system with reduced switch count and low-voltage ride-through capability for large-scale PV systems. , 2017, , .		3
159	A resonant Bi-directional buck-boost converter with distributed voltage stress using eGaN HEMTs. , 2017, , .		3
160	Breakdown voltage improvement and analysis of GaN HEMTs through field plate inclusion and substrate removal. , 2017, , .		8
161	Online false data detection and lost packet forecasting system using time series neural networks for IEC 61850 sampled measured values. , 2017, , .		9
162	Design and simulation issues for secure power networks as resilient smart grid infrastructure. , 2017, , 245-342.		6

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163	A targeted attack for enhancing resiliency of intelligent intrusion detection modules in energy cyber physical systems. , 2017, , .		12
164	Bi-layer multi-objective optimal allocation and sizing of electric vehicle parking garage. , 2017, , .		5
165	Utilization of supercapacitors in adaptive protection applications for resiliency against communication failures: A size and cost optimization case study. , 2017, , .		10
166	On the Implementation of the IEC 61850 Standard: Will Different Manufacturer Devices Behave Similarly under Identical Conditions?. Electronics (Switzerland), 2016, 5, 85.	1.8	23
167	Data Distribution Service-Based Interoperability Framework for Smart Grid Testbed Infrastructure. Energies, 2016, 9, 150.	1.6	20
168	Prioritized coordinated reactive power control of wind turbin involving STATCOM using multi-objective optimization. , 2016, , .		2
169	An integrated characterization model for the magnetic design of an EV charger's circular wireless power transfer pads. , 2016, , .		0
170	Predictive active power-flow control of two-way wireless power transfer system in V2G services. , 2016, , .		5
171	An Iterative Design Approach for Shielding of WPT Systems in Electric Vehicle Charging Applications. , 2016, , .		4
172	Steady-state performance assessment of different compensation topologies in two-way IWPT system for EV ancillary services. , 2016, , .		9
173	Physics-Based Co-Simulation Platform for EMC Analysis of Two-Way Inductive WPT System in EV Applications. , 2016, , .		1
174	EMI reduction of PMSM drive through matrix converter controlled with wide band gap switches. , 2016, , .		0
175	Impact of inter-turn short-circuit location on induction machines parameters through FE computations. , 2016, , .		2
176	Wireless power transfer for electric vehicle using an adaptive robot. , 2016, , .		0
177	Magnetic design considerations of bidirectional inductive wireless power transfer system for EV applications. , 2016, , .		1
178	Design considerations and predictive direct current control of Active Regenerative Rectifiers for harmonic and current ripple reduction. , 2016, , .		1
179	Physics-based FE model and analytical verification of bi-directional inductive wireless power transfer system. , 2016, , .		11
180	Adaptive Battery Management and Parameter Estimation Through Physics-Based Modeling and Experimental Verification. IEEE Transactions on Transportation Electrification, 2016, 2, 454-464.	5.3	47

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181	IEC 61850: Technology standards and cyber-threats. , 2016, , .		23
182	Optimal design of high frequency H-bridge inverter for wireless power transfer systems in EV applications. , 2016, , .		15
183	Hybrid energy storage management in ship power systems with multiple pulsed loads. Electric Power Systems Research, 2016, 141, 50-62.	2.1	56
184	An advanced real time energy management system for microgrids. Energy, 2016, 114, 742-752.	4.5	111
185	Advanced Battery Management & diagnostic system for smart grid infrastructure. , 2016, , .		7
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