

O A Mohammed

List of Publications by Year in descending order

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546
papers

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36303

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85
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553
all docs

553
docs citations

553
times ranked

8508
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-term load forecasting using an artificial neural network. IEEE Transactions on Power Systems, 1992, 7, 124-132.	6.5	452
2	DC microgrids and distribution systems: An overview. Electric Power Systems Research, 2015, 119, 407-417.	3.6	429
3	Energy Storage Technologies for High-Power Applications. IEEE Transactions on Industry Applications, 2016, 52, 1953-1961.	4.9	295
4	Real-Time Energy Management Algorithm for Plug-In Hybrid Electric Vehicle Charging Parks Involving Sustainable Energy. IEEE Transactions on Sustainable Energy, 2014, 5, 577-586.	8.8	288
5	A Survey on Smart Grid Cyber-Physical System Testbeds. IEEE Communications Surveys and Tutorials, 2017, 19, 446-464.	39.4	281
6	Real-Time Energy Management Algorithm for Mitigation of Pulse Loads in Hybrid Microgrids. IEEE Transactions on Smart Grid, 2012, 3, 1911-1922.	9.0	255
7	Laboratory-Based Smart Power System, Part I: Design and System Development. IEEE Transactions on Smart Grid, 2012, 3, 1394-1404.	9.0	193
8	Recuperation of Regenerative Braking Energy in Electric Rail Transit Systems. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2831-2847.	8.0	149
9	Laboratory-Based Smart Power System, Part II: Control, Monitoring, and Protection. IEEE Transactions on Smart Grid, 2012, 3, 1405-1417.	9.0	146
10	Real-Time Implementation of Multiagent-Based Game Theory Reverse Auction Model for Microgrid Market Operation. IEEE Transactions on Smart Grid, 2015, 6, 1064-1072.	9.0	142
11	Optimal Charging of Plug-in Electric Vehicles for a Car-Park Infrastructure. IEEE Transactions on Industry Applications, 2014, 50, 2323-2330.	4.9	141
12	Inter-Turn Fault Detection in PM Synchronous Machines by Physics-Based Back Electromotive Force Estimation. IEEE Transactions on Industrial Electronics, 2013, 60, 3472-3484.	7.9	139
13	Control of a Hybrid AC/DC Microgrid Involving Energy Storage and Pulsed Loads. IEEE Transactions on Industry Applications, 2017, 53, 567-575.	4.9	138
14	Practical experiences with an adaptive neural network short-term load forecasting system. IEEE Transactions on Power Systems, 1995, 10, 254-265.	6.5	123
15	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.	4.9	116
16	Multiagent-Based Optimal Microgrid Control Using Fully Distributed Diffusion Strategy. IEEE Transactions on Smart Grid, 2017, 8, 1997-2008.	9.0	114
17	An advanced real time energy management system for microgrids. Energy, 2016, 114, 742-752.	8.8	111
18	On the Implementation of IoT-Based Digital Twin for Networked Microgrids Resiliency Against Cyber Attacks. IEEE Transactions on Smart Grid, 2020, 11, 5138-5150.	9.0	108

#	ARTICLE	IF	CITATIONS
19	Modeling and Characterization of Induction Motor Internal Faults Using Finite-Element and Discrete Wavelet Transforms. IEEE Transactions on Magnetics, 2006, 42, 3434-3436.	2.1	102
20	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.	8.8	96
21	Adaptive Energy Management in Redundant Hybrid DC Microgrid for Pulse Load Mitigation. IEEE Transactions on Smart Grid, 2015, 6, 54-62.	9.0	92
22	Protection of Autonomous Microgrids Using Agent-Based Distributed Communication. IEEE Transactions on Power Delivery, 2017, 32, 351-360.	4.3	90
23	Hybrid Energy Storage Sizing and Power Splitting Optimization for Plug-In Electric Vehicles. IEEE Transactions on Industry Applications, 2019, 55, 2252-2262.	4.9	89
24	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.	9.0	88
25	Utilizing genetic algorithms for the optimal design of electromagnetic devices. IEEE Transactions on Magnetics, 1994, 30, 4296-4298.	2.1	86
26	Real-time energy management scheme for hybrid renewable energy systems in smart grid applications. Electric Power Systems Research, 2013, 96, 133-143.	3.6	84
27	Modeling and Feasibility Analysis of Quasi-Dynamic WPT System for EV Applications. IEEE Transactions on Transportation Electrification, 2017, 3, 343-353.	7.8	84
28	Physical modeling of PM synchronous motors for integrated coupling with Machine drives. IEEE Transactions on Magnetics, 2005, 41, 1628-1631.	2.1	83
29	Internal Short Circuit Fault Diagnosis for PM Machines Using FE-Based Phase Variable Model and Wavelets Analysis. IEEE Transactions on Magnetics, 2007, 43, 1729-1732.	2.1	83
30	Event-Based Protection Scheme for a Multiterminal Hybrid DC Power System. IEEE Transactions on Smart Grid, 2015, 6, 1658-1669.	9.0	83
31	A Multiagent-Based Game-Theoretic and Optimization Approach for Market Operation of Multimicrogrid Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 280-292.	11.3	83
32	Multi-Agent-Based Technique for Fault Location, Isolation, and Service Restoration. IEEE Transactions on Industry Applications, 2017, 53, 1841-1851.	4.9	80
33	Multi-Objective Optimization Technique for the Operation of Grid tied PV Powered EV Charging Station. Electric Power Systems Research, 2018, 164, 201-211.	3.6	80
34	A phase variable model of brushless dc motors based on finite element analysis and its coupling with external circuits. IEEE Transactions on Magnetics, 2005, 41, 1576-1579.	2.1	78
35	The Internet of Microgrids: A Cloud-Based Framework for Wide Area Networked Microgrids. IEEE Transactions on Industrial Informatics, 2018, 14, 1262-1274.	11.3	77
36	Design optimization of electrical machines using genetic algorithms. IEEE Transactions on Magnetics, 1995, 31, 2008-2011.	2.1	75

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37	Solving the Multivariant EV Routing Problem Incorporating V2G and G2V Options. IEEE Transactions on Transportation Electrification, 2017, 3, 238-248.	7.8	72
38	Experimental Validation of Comprehensive Steady-State Analytical Model of Bidirectional WPT System in EVs Applications. IEEE Transactions on Vehicular Technology, 2017, 66, 5584-5594.	6.3	71
39	DC microgrids and distribution systems: An overview. , 2013, , .		70
40	Three Dimensional Finite Element Vector Potential Formulation of Magnetic Fields in Electrical Apparatus. IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee, 1981, PAS-100, 4104-4111.	0.4	69
41	Protection of multi-terminal and distributed DC systems: Design challenges and techniques. Electric Power Systems Research, 2017, 143, 715-727.	3.6	68
42	Utilizing supercapacitors for resiliency enhancements and adaptive microgrid protection against communication failures. Electric Power Systems Research, 2017, 145, 223-233.	3.6	66
43	Modeling and Assessment Analysis of Various Compensation Topologies in Bidirectional IWPT System for EV Applications. IEEE Transactions on Industry Applications, 2017, 53, 4973-4984.	4.9	64
44	IoT-Based Digital Twin for Energy Cyber-Physical Systems: Design and Implementation. Energies, 2020, 13, 4762.	3.1	63
45	Real-Time Operation and Harmonic Analysis of Isolated and Non-Isolated Hybrid DC Microgrid. IEEE Transactions on Industry Applications, 2014, 50, 2900-2909.	4.9	59
46	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.	6.3	59
47	Communication-Based Control for DC Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 2180-2195.	9.0	59
48	A hybrid technique for the optimal design of electromagnetic devices using direct search and genetic algorithms. IEEE Transactions on Magnetics, 1997, 33, 1931-1934.	2.1	58
49	Design and Implementation of a New Transformerless Bidirectional DC-DC Converter With Wide Conversion Ratios. IEEE Transactions on Industrial Electronics, 2019, 66, 7067-7077.	7.9	58
50	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.	5.4	58
51	Hybrid energy storage management in ship power systems with multiple pulsed loads. Electric Power Systems Research, 2016, 141, 50-62.	3.6	56
52	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.	7.9	56
53	High frequency PM synchronous motor model determined by FE analysis. IEEE Transactions on Magnetics, 2006, 42, 1291-1294.	2.1	53
54	Development of High-Performance Grid-Connected Wind Energy Conversion System for Optimum Utilization of Variable Speed Wind Turbines. IEEE Transactions on Sustainable Energy, 2011, 2, 235-245.	8.8	53

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55	Performance Enhancement of Actively Controlled Hybrid DC Microgrid Incorporating Pulsed Load. IEEE Transactions on Industry Applications, 2015, 51, 3570-3578.	4.9	52
56	Automated Distributed Electric Vehicle Controller for Residential Demand Side Management. IEEE Transactions on Industry Applications, 2019, 55, 16-25.	4.9	52
57	Physics-Based High-Frequency Transformer Modeling by Finite Elements. IEEE Transactions on Magnetics, 2010, 46, 3249-3252.	2.1	49
58	Modeling and Simulation of DC Electric Rail Transit Systems With Wayside Energy Storage. IEEE Transactions on Vehicular Technology, 2019, 68, 2218-2228.	6.3	49
59	Coupled magnetoelastic finite element formulation including anisotropic reluctivity tensor and magnetostriction effects for machinery applications. IEEE Transactions on Magnetics, 2001, 37, 3388-3392.	2.1	48
60	A Wavelet Filtering Scheme for Noise and Vibration Reduction in High-frequency Signal Injection-Based Sensorless Control of PMSM at Low Speed. IEEE Transactions on Energy Conversion, 2012, 27, 250-260.	5.2	48
61	Coil Design Optimization of Power Pad in IPT System for Electric Vehicle Applications. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	48
62	A novel sensorless control strategy of doubly fed induction motor and its examination with the physical modeling of machines. IEEE Transactions on Magnetics, 2005, 41, 1852-1855.	2.1	47
63	Adaptive Battery Management and Parameter Estimation Through Physics-Based Modeling and Experimental Verification. IEEE Transactions on Transportation Electrification, 2016, 2, 454-464.	7.8	47
64	A New Protection Scheme for Multi-Bus DC Power Systems Using an Event Classification Approach. IEEE Transactions on Industry Applications, 2016, 52, 2834-2842.	4.9	47
65	Design optimization of electromagnetic devices using artificial neural networks. IEEE Transactions on Magnetics, 1992, 28, 2805-2807.	2.1	46
66	Bi-directional AC-DC/DC-AC converter for power sharing of hybrid AC/DC systems. , 2011, , .		46
67	Charge Control and Operation of Electric Vehicles in Power Grids: A Review. Energies, 2018, 11, 701.	3.1	46
68	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.	6.3	45
69	Fault Diagnosis of the Asynchronous Machines Through Magnetic Signature Analysis Using Finite-Element Method and Neural Networks. IEEE Transactions on Energy Conversion, 2013, 28, 1064-1071.	5.2	44
70	Single and Multiobjective Optimal Reactive Power Dispatch Based on Hybrid Artificial Physics Particle Swarm Optimization. Energies, 2019, 12, 2333.	3.1	42
71	On the creation of a generalized design optimization environment for electromagnetic devices. IEEE Transactions on Magnetics, 2001, 37, 3562-3565.	2.1	40
72	Advanced Battery Management and Diagnostic System for Smart Grid Infrastructure. IEEE Transactions on Smart Grid, 2015, , 1-1.	9.0	40

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73	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.	3.6	40
74	Investigation of the harmonic behavior of three phase transformer under nonsinusoidal operation using finite element and wavelet packets. <i>IEEE Transactions on Magnetics</i> , 2006, 42, 967-970.	2.1	39
75	Magnetic Design Considerations of Bidirectional Inductive Wireless Power Transfer System for EV Applications. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	2.1	39
76	A New Single-Switch Structure of a DC-DC Converter With Wide Conversion Ratio for Fuel Cell Vehicles: Analysis and Development. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020, 8, 2785-2800.	5.4	39
77	Economic Analysis of Real-Time Large-Scale PEVs Network Power Flow Control Algorithm With the Consideration of V2G Services. <i>IEEE Transactions on Industry Applications</i> , 2014, 50, 4272-4280.	4.9	38
78	Hierarchical control for DC microgrid clusters with high penetration of distributed energy resources. <i>Electric Power Systems Research</i> , 2017, 148, 210-219.	3.6	38
79	Stator Fault Detection on DTC-Driven IM via Magnetic Signatures Aided by 2-D FEA Co-Simulation. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-5.	2.1	36
80	Dynamic Real-Time Pricing Mechanism for Electric Vehicles Charging Considering Optimal Microgrids Energy Management System. <i>IEEE Transactions on Industry Applications</i> , 2021, 57, 5372-5381.	4.9	36
81	Modeling and Characterization of Transformers Internal Faults Using Finite Element and Discrete Wavelet Transforms. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 1425-1428.	2.1	35
82	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.	3.6	35
83	Multi-objective genetic-fuzzy optimal design of PI controller in the indirect field oriented control of an induction motor. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 3608-3612.	2.1	34
84	Pulse-load effects on ship power system stability. , 2010, , .		34
85	Coordination of Hybrid Energy Storage for Ship Power Systems With Pulsed Loads. <i>IEEE Transactions on Industry Applications</i> , 2020, 56, 1136-1145.	4.9	34
86	Special Losses in Rotors of Electronically Commutated Brushless DC Motors Induced by Non-Uniformly Rotating Amature MMFS. <i>IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee</i> , 1982, PAS-101, 4502-4507.	0.4	32
87	Phase-variable model of PM synchronous machines for integrated motor drives. <i>IET Science, Measurement and Technology</i> , 2004, 151, 423-429.	0.7	32
88	FE-Circuit Coupled Model of Electric Machines for Simulation and Evaluation of EMI Issues in Motor Drives. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 3389-3392.	2.1	32
89	Fuzzy Predictive DTC of Induction Machines With Reduced Torque Ripple and High-Performance Operation. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 2580-2587.	7.9	32
90	Demagnetization Control for Reliable Flux Weakening Control in PM Synchronous Machine. <i>IEEE Transactions on Energy Conversion</i> , 2012, 27, 1046-1055.	5.2	31

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91	Impact of interconnection photovoltaic/wind system with utility on their reliability using a fuzzy scheme. Renewable Energy, 2006, 31, 2475-2491.	8.9	30
92	Complex-Vector Model of Interturn Failure in Induction Machines for Fault Detection and Identification. IEEE Transactions on Industry Applications, 2017, 53, 2667-2678.	4.9	30
93	Bilayer Multi-Objective Optimal Allocation and Sizing of Electric Vehicle Parking Garage. IEEE Transactions on Industry Applications, 2018, 54, 1992-2001.	4.9	30
94	Smart Control of Fleets of Electric Vehicles in Smart and Connected Communities. IEEE Transactions on Smart Grid, 2019, 10, 6883-6897.	9.0	30
95	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.	7.9	30
96	Efficient Power-Electronic Converters for Electric Vehicle Applications. , 2015, , .		29
97	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.	2.1	29
98	A DDS-Based Energy Management Framework for Small Microgrid Operation and Control. IEEE Transactions on Industrial Informatics, 2018, 14, 958-968.	11.3	29
99	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.	6.3	29
100	Data-Centric Hierarchical Distributed Model Predictive Control for Smart Grid Energy Management. IEEE Transactions on Industrial Informatics, 2019, 15, 4086-4098.	11.3	29
101	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.	3.6	29
102	Control of hybrid AC/DC microgrid involving energy storage, renewable energy and pulsed loads. , 2015, , .		28
103	Software defined networking for resilient communications in Smart Grid active distribution networks. , 2016, , .		28
104	FE-Based Modeling of Single-Phase Distribution Transformers With Winding Short Circuit Faults. IEEE Transactions on Magnetics, 2007, 43, 1841-1844.	2.1	27
105	Physics-Based Modeling of Power Converters From Finite Element Electromagnetic Field Computations. IEEE Transactions on Magnetics, 2013, 49, 567-576.	2.1	27
106	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.	7.9	27
107	Detection of magnetic body using artificial neural network with modified simulated annealing. IEEE Transactions on Magnetics, 1994, 30, 3644-3647.	2.1	26
108	Evaluation of Radiated Electromagnetic Field Interference Due to Frequency Switching in PWM Motor Drives by 3D Finite Elements. IEEE Transactions on Magnetics, 2011, 47, 1474-1477.	2.1	26

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109	Fault diagnosis of the asynchronous machines through magnetic signature analysis using finite-element method and neural networks. , 2014, , .		26
110	Behavior Modeling and Auction Architecture of Networked Microgrids for Frequency Support. IEEE Transactions on Industrial Informatics, 2017, 13, 1772-1782.	11.3	26
111	Computational methods based laplace decomposition for solving nonlinear system of fractional order differential equations. AEJ - Alexandria Engineering Journal, 2018, 57, 3549-3557.	6.4	26
112	A secured distributed control system for future interconnected smart grids. Applied Energy, 2019, 243, 57-70.	10.1	26
113	An Enhancement of Protection Strategy for Distribution Network Using the Communication Protocols. IEEE Transactions on Industry Applications, 2020, 56, 1240-1249.	4.9	26
114	Experimental Verification and Application of the Three Dimensional Finite Element Magnetic Vector Potential Method in Electrical Apparatus. IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee, 1981, PAS-100, 4112-4122.	0.4	25
115	Modeling and characterization of induction motor internal faults using finite element and discrete wavelet transform. , 2006, , .		25
116	A laboratory based microgrid and distributed generation infrastructure for studying connectivity issues to operational power systems. , 2010, , .		25
117	DC-Bus Voltage Control Technique for Parallel-Integrated Permanent Magnet Wind Generation Systems. IEEE Transactions on Energy Conversion, 2011, 26, 1140-1150.	5.2	25
118	Impact of Inter-Turn Short-Circuit Location on Induction Machines Parameters Through FE Computations. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	25
119	On the adaptive protection of microgrids: A review on how to mitigate cyber attacks and communication failures. , 2017, , .		25
120	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.	5.4	25
121	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.	4.9	25
122	A Novel Direct Torque Control of Doubly-Fed Induction Generator Used for Variable Speed Wind Power Generation. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	24
123	Development and implementation of a phasor measurement unit for real-time monitoring, control and protection of power systems. , 2011, , .		24
124	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.	5.2	24
125	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.	5.4	24
126	Modeling of Anisotropic Magnetostriction Under DC Bias Based on an Optimized BP Neural Network. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	24

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127	Distributed control of hybrid AC-DC microgrid with solar energy, energy storage and critical load. , 2014, , .		23
128	On the Implementation of the IEC 61850 Standard: Will Different Manufacturer Devices Behave Similarly under Identical Conditions?. Electronics (Switzerland), 2016, 5, 85.	3.1	23
129	IEC 61850: Technology standards and cyber-threats. , 2016, , .		23
130	Ancillary techniques for the practical implementation of GAs to the optimal design of electromagnetic devices. IEEE Transactions on Magnetics, 1996, 32, 1194-1197.	2.1	22
131	Multiobjective Design Optimization of Coupled PM Synchronous Motor-Drive Using Physics-Based Modeling Approach. IEEE Transactions on Magnetics, 2011, 47, 1266-1269.	2.1	22
132	Sensorless Control of PM Synchronous Machines by Physics-Based EMF Observer. IEEE Transactions on Energy Conversion, 2012, 27, 1009-1017.	5.2	22
133	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.	6.3	22
134	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.	4.9	22
135	Parameter Identification Based Online Noninvasive Estimation of Rotor Temperature in Induction Motors. IEEE Transactions on Industry Applications, 2021, 57, 417-426.	4.9	22
136	CPS Attacks Mitigation Approaches on Power Electronic Systems With Security Challenges for Smart Grid Applications: A Review. IEEE Access, 2021, 9, 38571-38601.	4.2	22
137	Two-stage dynamic management in energy communities using a decision system based on elastic net regularization. Applied Energy, 2021, 291, 116852.	10.1	22
138	Optimal charging of plug-in electric vehicles for a car park infrastructure. , 2012, , .		21
139	Connectivity and Bidirectional Energy Transfer in DC Microgrid Featuring Different Voltage Characteristics. , 2013, , .		21
140	Protection design and coordination of DC Distributed Power Systems Architectures. , 2013, , .		21
141	Analysis of Radiated EMI and Noise Propagation in Three-Phase Inverter System Operating Under Different Switching Patterns. IEEE Transactions on Magnetics, 2013, 49, 2213-2216.	2.1	21
142	Adaptive SRF-PLL with reconfigurable controller for Microgrid in grid-connected and stand-alone modes. , 2013, , .		21
143	Modeling and Control of a Low-Speed Flywheel Driving System for Pulsed-Load Mitigation in DC Distribution Networks. IEEE Transactions on Industry Applications, 2016, 52, 3378-3387.	4.9	21
144	Decentralized Multi-Agent System for Protection and the Power Restoration Process in Microgrids. , 2017, , .		21

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145	The IEC 61850 Sampled Measured Values Protocol: Analysis, Threat Identification, and Feasibility of Using NN Forecasters to Detect Spoofed Packets. <i>Energies</i> , 2019, 12, 3731.	3.1	21
146	Robust Adaptive Neural Network Tracking Control With Optimized Super-Twisting Sliding-Mode Technique for Induction Motor Drive System. <i>IEEE Transactions on Industry Applications</i> , 2022, 58, 4134-4157.	4.9	21
147	Solution of Eddy Current Problems Using Three Dimensional Finite Element Complex Magnetic Vector Potential. <i>IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee</i> , 1982, PAS-101, 4222-4229.	0.4	20
148	Vector oriented control of voltage source PWM inverter as a dynamic VAR compensator for wind energy conversion system connected to utility grid. , 2010, , .		20
149	Smart optimal control of DC-DC boost converter in PV systems. , 2010, , .		20
150	Data Distribution Service-Based Interoperability Framework for Smart Grid Testbed Infrastructure. <i>Energies</i> , 2016, 9, 150.	3.1	20
151	Design and Experimental Verification of a High-Voltage Series-Stacked GaN eHEMT Module for Electric Vehicle Applications. <i>IEEE Transactions on Transportation Electrification</i> , 2019, 5, 31-47.	7.8	20
152	Optimal transposition design of transformer windings by Genetic Algorithms. <i>IEEE Transactions on Magnetics</i> , 1995, 31, 3572-3574.	2.1	19
153	Real-Time Simulations of Electrical Machine Drives with Hardware-in-the-Loop. <i>IEEE Power Engineering Society General Meeting</i> , 2007, , .	0.0	19
154	Islanding detection using synchronized measurement in smart microgrids. , 2013, , .		19
155	Bilayer Predictive Power Flow Controller for Bidirectional Operation of Wirelessly Connected Electric Vehicles. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 4258-4267.	4.9	19
156	Experimental Demonstration of a Modular, Quasi-Resonant Bidirectional DC-DC Converter Using GaN Switches for Electric Vehicles. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 7787-7803.	4.9	19
157	Investigation of Protection Strategy for Microgrid System Using Lithium-Ion Battery During Islanding. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 3411-3420.	4.9	19
158	Hybrid Microgrid Energy Management and Control Based on Metaheuristic-Driven Vector-Decoupled Algorithm Considering Intermittent Renewable Sources and Electric Vehicles Charging Lot. <i>Energies</i> , 2020, 13, 3423.	3.1	19
159	On the uniqueness of solution of magnetostatic vector potential problems by three-dimensional finite element methods. <i>Journal of Applied Physics</i> , 1982, 53, 8402-8404.	2.5	18
160	A dynamic programming-finite element procedure for the design of nonlinear magnetic devices. <i>IEEE Transactions on Magnetics</i> , 1990, 26, 666-669.	2.1	18
161	Utilization of Supercapacitors in Protection Schemes for Resiliency Against Communication Outages: A Case Study on Size and Cost Optimization. <i>IEEE Transactions on Industry Applications</i> , 2018, 54, 3153-3164.	4.9	18
162	A Bilateral Decision Support Platform for Public Charging of Connected Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 129-140.	6.3	18

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163	Field-Oriented Vector Control of Synchronous Motors With Additional Field Winding. IEEE Transactions on Energy Conversion, 2004, 19, 95-101.	5.2	17
164	A multi-physics multi-objective optimal design approach of PM synchronous machines. , 2014, , .		17
165	Microgrid automation assisted by synchrophasors. , 2015, , .		17
166	A Computational Approach for a Wireless Power Transfer Link Design Optimization Considering Electromagnetic Compatibility. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	17
167	Experimental Verification of a Double-Input Soft-Switched DC-DC Converter for Fuel Cell Electric Vehicle With Hybrid Energy Storage System. IEEE Transactions on Industry Applications, 2019, 55, 6451-6465.	4.9	17
168	Power Flow Modeling of Wireless Power Transfer for EVs Charging and Discharging in V2G Applications. , 2015, , .		16
169	A Kriging-Assisted Light Beam Search Method for Multi-Objective Electromagnetic Inverse Problems. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	16
170	Pre-Processing of Energy Demand Disaggregation Based Data Mining Techniques for Household Load Demand Forecasting. Inventions, 2018, 3, 45.	2.5	16
171	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.	4.9	16
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