

Huang shoudao

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

812
citations

14
h-index

23
g-index

171
ext. papers

1,177
ext. citations

4.3
avg, IF

4.81
L-index

#	Paper	IF	Citations
120	A Novel Grid-Connected PV System Based on MMC to Get the Maximum Power Under Partial Shading Conditions. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4320-4333	7.2	59
119	Shared Excitation Based Nonlinear Ultrasound and Vibrothermography Testing for CFRP Barely Visible Impact Damage Inspection. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 5575-5584	11.9	53
118	Induction Infrared Thermography and Thermal-Wave-Radar Analysis for Imaging Inspection and Diagnosis of Blade Composites. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 5637-5647	11.9	39
117	Torque ripple minimisation of permanent magnet synchronous motor using a new proportional resonant controller. <i>IET Power Electronics</i> , 2017 , 10, 208-214	2.2	38
116	Cogging Torque Reduction by Slot-Opening Shift for Permanent Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 4028-4031	2	38
115	DC-bus voltage control of grid-connected voltage source converter by using space vector modulated direct power control under unbalanced network conditions. <i>IET Power Electronics</i> , 2013 , 6, 925-934	2.2	33
114	Noncontact Electromagnetic Induction Excited Infrared Thermography for Photovoltaic Cells and Modules Inspection. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 5585-5593	11.9	30
113	. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 5610-5619	11.9	27
112	Control of Dual Three-Phase Permanent Magnet Synchronous Machine Based on Five-Leg Inverter. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 11071-11079	7.2	22
111	Novel Predictive Stator Flux Control Techniques for PMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 8916-8929	7.2	21
110	Frequency splitting suppression method for four-coil wireless power transfer system. <i>IET Power Electronics</i> , 2016 , 9, 2859-2864	2.2	19
109	Modulation Methods for Indirect Matrix Converter Extending the Input Reactive Power Range. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4852-4863	7.2	19
108	A New Voltage Measure Method for MMC Based on Sample Delay Compensation. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 5712-5723	7.2	17
107	ALL-DC Offshore Wind Farm With Series-Connected Wind Turbines to Overcome Unequal Wind Speeds. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 1370-1381	7.2	16
106	Magnetic Field and Thrust Analysis of the U-Channel Air-Core Permanent Magnet Linear Synchronous Motor. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	13
105	Robust Nonlinear Predictive Current Control Techniques for PMSM. <i>Energies</i> , 2019 , 12, 443	3.1	13
104	Load Disturbance Observer-Based Complementary Sliding Mode Control for PMSM of the Mine Traction Electric Locomotive. <i>International Journal of Fuzzy Systems</i> , 2019 , 21, 1051-1058	3.6	11

103	Novel Voltage Balancing Control Strategy for Dual-Active-Bridge Input-Series-Output-Parallel DC-DC Converters. <i>IEEE Access</i> , 2020 , 8, 103114-103123	3.5	11
102	A Generalized Design Framework for Neutral Point Voltage Balance of Three-Phase Vienna Rectifiers. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10221-10232	7.2	11
101	Fault Diagnosis Based on an Approach Combining a Spectrogram and a Convolutional Neural Network with Application to a Wind Turbine System. <i>Energies</i> , 2018 , 11, 2561	3.1	11
100	Analysis and calculation on switching frequency and switching losses of modular multilevel converter with maximum sub-module capacitor voltage deviation. <i>IET Power Electronics</i> , 2016 , 9, 188-197 ^{2.2}	2.2	10
99	Control strategy for permanent magnet synchronous motor with contra-rotating rotors under unbalanced loads condition. <i>IET Electric Power Applications</i> , 2015 , 9, 71-79	1.8	10
98	Overview of condition monitoring and operation control of electric power conversion systems in direct-drive wind turbines under faults. <i>Frontiers of Mechanical Engineering</i> , 2017 , 12, 281-302	3.3	9
97	Six-Phase Space Vector PWM under Stator One-Phase Open-Circuit Fault Condition. <i>Energies</i> , 2018 , 11, 1796	3.1	9
96	Super-Twisting Sliding Control Design of Three-Phase Inverter for Stand-Alone Distributed Generation Systems. <i>Journal of Control, Automation and Electrical Systems</i> , 2016 , 27, 179-188	1.5	8
95	Design of Position Estimation Strategy of Sensorless Interior PMSM at Standstill Using Minimum Voltage Vector Injection Method. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	8
94	Inductance Parameter Identification Method of Permanent Magnet Synchronous Motor Based on the HF Rotating Square Wave Voltage Injection 2019 ,		8
93	Stack Autoencoder Transfer Learning Algorithm for Bearing Fault Diagnosis Based on Class Separation and Domain Fusion. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	8
92	A Comparative Study Between Novel and Conventional Four-Resonator Coil Structures in Wireless Power Transfer. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	7
91	Multidisciplinary Design of High-Speed Solid Rotor Homopolar Inductor Machine for Flywheel Energy Storage System. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 485-496	7.6	7
90	Motor Fault Diagnosis Based on Scale Invariant Image Features. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	7
89	Ride-through strategy of quasi-Z-source wind power generation system under the asymmetrical grid voltage fault. <i>IET Electric Power Applications</i> , 2017 , 11, 504-511	1.8	6
88	Analysis of the Electromagnetic Performance of Homopolar Inductor Machine Through Nonlinear Magnetic Equivalent Circuit and Air-Gap Permeance Function. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 267-276	4.3	6
87	Maximum torque per ampere and flux-weakening control for PMSM based on curve fitting 2010 ,		6
86	Development and Analysis of an Outer Rotor Homopolar Inductor Machine for Flywheel Energy Storage System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 6504-6515	8.9	6

85	Eddy Current Pulsed Thermography for Noncontact Nondestructive Inspection of Motor Winding Defects. <i>IEEE Sensors Journal</i> , 2020 , 20, 2625-2634	4	5
84	Electromagnetic Torque Analysis for All-Harmonic-Torque Permanent Magnet Synchronous Motor. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	5
83	Winding layers and slot/pole combination in fractional slot/pole PMSM Effects on motor performance 2009 ,		5
82	Variable-Speed Hydropower Generation: System Modeling, Optimal Control, and Experimental Validation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 10902-10912	8.9	5
81	Motor Fault Diagnosis Using Image Visual Information and Bag of Words Model. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	5
80	Simplified Junction Temperature Estimation using Integrated NTC Sensor for SiC Modules 2018 ,		5
79	Stabilization and Speed Control of a Permanent Magnet Synchronous Motor with Dual-Rotating Rotors. <i>Energies</i> , 2018 , 11, 2786	3.1	5
78	Research of Cryogenic Permanent Magnet Synchronous Motor for Submerged Liquefied Natural Gas Pump. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 2030-2039	5.4	5
77	Graph Cardinality Preserved Attention Network for Fault Diagnosis of Induction Motor under Varying Speed and Load Condition. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	5
76	Series-connected single-phase MMC for multi-phase PMSG with DC grid. <i>IET Power Electronics</i> , 2019 , 12, 2179-2188	2.2	4
75	Experimental Evaluation of Protecting High-Voltage Electrical Transformers Using Water Mist with and without Additives. <i>Fire Technology</i> , 2019 , 55, 1671-1690	3	4
74	Multi-Objective Robust Optimization of a Dual-Flux-Modulator Magnetic Geared Machine With Hybrid Uncertainties. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 2106-2115	5.4	4
73	Disturbance Observer-Based Backstepping Control of PMSM for the Mine Traction Electric Locomotive. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-10	1.1	4
72	Direct torque control for PMSM based on model reference adaptive system 2013 ,		4
71	Effect of the number of slots per pole on performance of permanent magnet generator direct-driven by wind turbine 2011 ,		4
70	A Novel Variable Step Hill-Climb Search Algorithm Used for Direct Driven PMSG 2009 ,		4
69	Stator Current Harmonic Reduction in a Novel Half Quasi-Z-Source Wind Power Generation System. <i>Energies</i> , 2016 , 9, 770	3.1	4
68	Multi-Objective Robust Optimization for a Dual-Flux-Modulator Coaxial Magnetic Gear. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-8	2	4

67	Multi-Interval Efficiency Design Optimization for Permanent Magnet Synchronous Generators Used in Hybrid Electric Special Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 4646-4656	8.9	4
66	Electrical safety of suppressing wildfires near high-voltage transmission lines using water mist. <i>Journal of Fire Sciences</i> , 2018 , 36, 295-314	1.5	4
65	Analysis and Design of PI Plus Repetitive Control for Grid-Side Converters of Direct-Drive Wind Power Systems Considering the Effect of Hardware Sampling Circuits. <i>IEEE Access</i> , 2020 , 8, 87947-87959	3.5	3
64	Speed synchronism of permanent magnet synchronous motor with dual contra-rotating rotors under load variation. <i>IET Power Electronics</i> , 2017 , 10, 1479-1486	2.2	3
63	A Novel Optimal Current Trajectory Control Strategy of IPMSM Considering the Cross Saturation Effects. <i>Energies</i> , 2017 , 10, 1460	3.1	3
62	Sliding mode SVM-DPC for grid-side converter of D-PMSG under asymmetrical faults 2011 ,		3
61	Optimum Design of Permanent Magnet Synchronous Motor Based on Gene Handling Genetic Algorithms 2010 ,		3
60	Wind Prediction Based on Improved BP Artificial Neural Network in Wind Farm 2010 ,		3
59	Characteristics and Current Harmonic Control of N* Three-Phase PMSG for HVDC Transmission Based on MMC. <i>Energies</i> , 2020 , 13, 178	3.1	3
58	DC-link voltage control strategy of Z-source inverter for high-speed permanent magnet motor. <i>IET Electric Power Applications</i> , 2020 , 14, 911-920	1.8	3
57	Torque enhancement of dual three-phase PMSM by harmonic injection. <i>IET Electric Power Applications</i> , 2020 , 14, 1735-1744	1.8	3
56	Capacitor Voltage Ripple Suppression for Z-Source Wind Energy Conversion System. <i>Energies</i> , 2016 , 9, 56	3.1	3
55	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
54	Dynamic DC-link Voltage Adjustment for Electric Vehicles Considering the Cross Saturation Effects. <i>Energies</i> , 2018 , 11, 2046	3.1	3
53	HVDC Transmission Technology of Wind Power System with Multi-Phase PMSG. <i>Energies</i> , 2018 , 11, 3294	3.1	3
52	An Enhanced SVPWM Strategy Based on Vector Space Decomposition for Dual Three-Phase Machines Fed by Two DC-Source VSIs. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 9312-9321	7.2	3
51	A Reverse Model Predictive Control Strategy for a Modular Multilevel Converter. <i>Energies</i> , 2019 , 12, 2973	3.1	2
50	A Novel Control Strategy for DC-Link Voltage Balance and Reactive Power Equilibrium of a Single-Phase Cascaded H-Bridge Rectifier. <i>Energies</i> , 2019 , 12, 51	3.1	2

49	Sliding mode based on active-disturbance rejection controller for pulse width modulation rectifier under asymmetrical input voltages 2013 ,		2
48	Optimal design of the rotor structure for interior permanent magnet synchronous motor 2011 ,		2
47	Air-gap flux oriented vector control for the sensorless bearingless permanent magnetic motor 2011 ,		2
46	Method for optimize the air gap flux density of permanent magnet synchronous motor 2009 ,		2
45	A novel position controller for PMSM servo system based on variable structure active disturbance rejection controller 2011 ,		2
44	Improved method on flux-weakening control of permanent magnet synchronous motor in electric vehicles 2011 ,		2
43	Experimental evaluation of sensorless control for doubly-fed induction wind power generator 2009 ,		2
42	An Online Data-Driven Multi-Objective Optimization of a Permanent Magnet Linear Synchronous Motor. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-4	2	2
41	Modified MMC and its capacitor voltage ripple suppression method employed in medium-voltage wind generator system. <i>IET Power Electronics</i> , 2019 , 12, 3185-3196	2.2	2
40	Rotating Machine Systems Fault Diagnosis Using Semisupervised Conditional Random Field-Based Graph Attention Network. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	2
39	Sliding Mode Control Based Decoupling Scheme for Quad-Active Bridge DC-DC Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	2
38	Research on the Axial Force of Conical-Rotor Permanent Magnet Synchronous Motors with Turbines. <i>Energies</i> , 2018 , 11, 2532	3.1	2
37	Research On the Application of Superconducting Magnetic Energy Storage in the Wind Power Generation System For Smoothing Wind Power Fluctuations. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-5	1.8	2
36	Joint Scanning Electromagnetic Thermography for Industrial Motor Winding Defect Inspection and Quantitative Evaluation. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 6832-6841	11.9	2
35	Hybrid Position Estimation Strategy With a Smooth Transition for IPMSM Sensorless Drives in the Wide Speed Range. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 7916-7927	7.2	2
34	Characteristic Analysis and Predictive Torque Control of the Modular Three-Phase PMSM for Low-Voltage High Power Application. <i>Energies</i> , 2020 , 13, 5606	3.1	1
33	A power allocation method for grid-connected MMC inverter based on droop control. <i>Chinese Journal of Electrical Engineering</i> , 2016 , 2, 84-91	4	1
32	Design of Cryogenic Permanent Magnet Synchronous Motor for Submerged Liquefied Natural Gas Pump. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	1

31	Common-mode voltage suppression of dual Y shift 30° six-phase electric machine 2017 ,		1
30	Research on Control-Oriented Modeling for Turbocharged SI and DI Gasoline Engines. <i>Journal of Chemistry</i> , 2015 , 2015, 1-11	2.3	1
29	An enhanced reliability method of initial angle detection on surface mounted permanent magnet synchronous motor 2014 ,		1
28	Research on optimal design of permanent magnet synchronous motors based on field-circuit coupled method 2014 ,		1
27	Sensorless control for direct-drive PMSG wind turbines based on sliding mode observer 2011 ,		1
26	Optimization the Electromagnetic Torque Ripple of Permanent Magnet Synchronous Motor 2010 ,		1
25	Some Practical Consideration of a 2MW Direct-Drive Permanent-Magnet Wind-Power Generation System 2009 ,		1
24	Study and design of the hybrid excitation synchronous generator operating constant voltage over a wide range of speeds 2008 ,		1
23	Novel Compensation Method of Digital Delay for High-speed Permanent Magnet Synchronous Motor Under Low Carrier Ratio 2020 ,		1
22	Composite Speed Control of PMSM Drive System Based on Finite Time Sliding Mode Observer. <i>IEEE Access</i> , 2021 , 1-1	3.5	1
21	Model Predictive Control of Bearingless Motor Model Based on Conditional Trigger 2019 ,		1
20	Low-speed Sensorless MTPA Control of Interior Permanent Magnet Synchronous Motor Based on Parameter Self-learning 2019 ,		1
19	Research on simulation technology of megawatt wind turbine based on three-phase asynchronous motor 2019 ,		1
18	A Robust Modified Model Predictive Control Algorithm for Quasi-Z Source Inverters 2019 ,		1
17	A New Model Predictive Control Strategy for Quasi-Z-Source Inverters 2019 ,		1
16	Design and Analysis of a Novel Permanent Magnet Homopolar Inductor Machine with Mechanical Flux Modulator for Flywheel Energy Storage System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
15	Direct-Drive Conical-Rotor Permanent Magnet Synchronous Generator for Turbo-Expander, Accounting for Adaptive Equilibrium of Axial Force. <i>IEEE Access</i> , 2018 , 6, 72889-72899	3.5	1
14	A Novel Data-Driven Mechanical Fault Diagnosis Method for Induction Motors Using Stator Current Signals. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	1

13	Simulation and Experimental Analysis of a Mechanical Flux Modulated Permanent Magnet Homopolar Inductor Machine. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	0
12	Research on Noise Reduction of 3.6 MW Evaporative Cooling Wind Motor Induced by Electromagnetic and Two-Phase Flow Resonance Based on Stator Optimization. <i>Processes</i> , 2021 , 9, 669	2.9	0
11	Fault Detection Based on a Combined Approach of FA-CP-ELM with Application to Wind Turbine System. <i>Journal of Electrical Engineering and Technology</i> , 2021 , 16, 547-557	1.4	0
10	No-load Electromagnetic Performance Analysis of a Mechanically Modulated Permanent Magnet Homopolar Inductor Machine. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	0
9	Cogging Torque Dynamic Reduction Based on Harmonic Torque Counteract. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	0
8	Multi-Objective Optimization for a Dual-Flux-Modulator Coaxial Magnetic Gear With Double-Layer Permanent Magnet Inner Rotor. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	0
7	Novel Dual-rotor Single Stator Coreless Permanent Magnet Machine with Dual-flywheel. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	0
6	Characteristics simulation method of megawatt three-blade horizontal axis wind turbine based on laboratory kilowatt low-power motor system. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	
5	Multi-objective optimisation of hydroelectric PMSG considering water-level variation. <i>Journal of Engineering</i> , 2019 , 2019, 5234-5239	0.7	
4	An Improved Adaptive Control for the Divided Capacitor Voltages of the Full-Bridge Three-Level DC/DC Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 497-509	5.6	
3	Permanent magnet temperature estimation of high power density permanent magnet synchronous machines by considering magnetic saturation. <i>Journal of Power Electronics</i> , 2021 , 21, 1804	0.9	
2	Open-circuit field prediction of IPM machine using multiple flux source network model. <i>Energy Reports</i> , 2022 , 8, 1139-1146	4.6	
1	Improved Flux-Weakening Method with Excitation Current Distribution for Hybridly Excited Asymmetric Stator Pole Doubly Salient Machine Based on Electrical Vehicle. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1	5.6	