Huang shoudao

List of Publications by Year
in descending order

171	1,636	411340	466096
papers	citations	20 h-index	32 g-index

171	171	171	1664
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Novel Data-Driven Mechanical Fault Diagnosis Method for Induction Motors Using Stator Current Signals. IEEE Transactions on Transportation Electrification, 2023, 9, 347-358.	5.3	16
2	Improved Flux-Weakening Method With Excitation Current Distribution for Hybridly Excited Asymmetric Stator Pole Doubly Salient Machine Based on Electrical Vehicle. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 1385-1396.	3.7	1
3	No-Load Electromagnetic Performance Analysis of a Mechanically Modulated Permanent Magnet Homopolar Inductor Machine. IEEE Transactions on Transportation Electrification, 2022, 8, 1168-1181.	5.3	7
4	Design and Analysis of a Novel Permanent Magnet Homopolar Inductor Machine With Mechanical Flux Modulator for Flywheel Energy Storage System. IEEE Transactions on Industrial Electronics, 2022, 69, 7744-7755.	5.2	10
5	Square-Wave Voltage Injection Based PMSM Sensorless Control Considering Time Delay at Low Switching Frequency. IEEE Transactions on Industrial Electronics, 2022, 69, 5525-5535.	5.2	20
6	Sliding Mode Control-Based Decoupling Scheme for Quad-Active Bridge DCâ€“DC Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1153-1164.	3.7	10
7	Cogging Torque Dynamic Reduction Based on Harmonic Torque Counteract. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	3
8	Motor Fault Diagnosis Based on Scale Invariant Image Features. IEEE Transactions on Industrial Informatics, 2022, 18, 1605-1617.	7.2	27
9	Stack Autoencoder Transfer Learning Algorithm for Bearing Fault Diagnosis Based on Class Separation and Domain Fusion. IEEE Transactions on Industrial Electronics, 2022, 69, 3047-3058.	5.2	50
10	Graph Cardinality Preserved Attention Network for Fault Diagnosis of Induction Motor Under Varying Speed and Load Condition. IEEE Transactions on Industrial Informatics, 2022, 18, 3702-3712.	7.2	23
11	Characteristics Simulation Method of Megawatt Three-Blade Horizontal Axis Wind Turbine Based on Laboratory Kilowatt Low-Power Motor System. IEEE Transactions on Industry Applications, 2022, 58, 645-655.	3.3	3
12	Simulation and Experimental Analysis of a Mechanical Flux Modulated Permanent Magnet Homopolar Inductor Machine. IEEE Transactions on Transportation Electrification, 2022, 8, 2629-2639.	5.3	3
13	Novel Dual-Rotor Single-Stator Coreless Permanent Magnet Machine With Dual-Flywheel. IEEE Transactions on Magnetics, 2022, 58, 1-6.	1.2	4
14	Hybrid Position Estimation Strategy With a Smooth Transition for IPMSM Sensorless Drives in the Wide Speed Range. IEEE Transactions on Power Electronics, 2022, 37, 7916-7927.	5.4	8
15	Open-circuit field prediction of IPM machine using multiple flux source network model. Energy Reports, 2022, 8, 1139-1146.	2.5	0
16	Multi-Interval Efficiency Design Optimization for Permanent Magnet Synchronous Generators Used in Hybrid Electric Special Vehicles. IEEE Transactions on Industrial Electronics, 2021, 68, 4646-4656.	5.2	12
17	Development and Analysis of an Outer Rotor Homopolar Inductor Machine for Flywheel Energy Storage System. IEEE Transactions on Industrial Electronics, 2021, 68, 6504-6515.	5.2	23
18	Variable-Speed Hydropower Generation: System Modeling, Optimal Control, and Experimental Validation. IEEE Transactions on Industrial Electronics, 2021, 68, 10902-10912.	5.2	14

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19	Fault Detection Based on a Combined Approach of FA-CP-ELM with Application to Wind Turbine System. Journal of Electrical Engineering and Technology, 2021, 16, 547-557.	1.2	3
20	An Improved Adaptive Control for the Divided Capacitor Voltages of the Full-Bridge Three-Level DC/DC Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 497-509.	3.7	0
21	Motor Fault Diagnosis Using Image Visual Information and Bag of Words Model. IEEE Sensors Journal, 2021, 21, 21798-21807.	2.4	15
22	Rotating Machine Systems Fault Diagnosis Using Semisupervised Conditional Random Field-Based Graph Attention Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	14
23	Research on Noise Reduction of 3.6 MW Evaporative Cooling Wind Motor Induced by Electromagnetic and Two-Phase Flow Resonance Based on Stator Optimization. Processes, 2021, 9, 669.	1.3	3
24	A Restart Method for PMSM Driving a High-Inertia Load with a Single DC-link Shunt Resistor. , 2021, , .		0
25	Dynamic Inspection Method of Motor Winding Defects Based on Scanning Inductive Thermography and Image Registration. , 2021, , .		1
26	Deadbeat control of MMC with reduced sensors for robustness enhancement. , 2021, , .		0
27	Comparative Study of Homopolar Inductor Machines with Different Rotor Structures for Flywheel Energy Storage System. , 2021, , .		0
28	Sliding Mode Speed Control of PMSM Based on A Novel Hybrid Reaching Law and High-Order Terminal Sliding-Mode Observer. , 2021, , .		3
29	Interturn Short-Circuit Fault Diagnosis of PMSM for Small Hydropower. , 2021, , .		0
30	Power Factor Improvement for a Magnetic-Geared Flat Linear Machine. , 2021, , .		0
31	Multi-objective Optimization of Topology and Control Parameters of the Switched Reluctance Motor with 12/8 Poles. , 2021, , .		1
32	Multidisciplinary Design of High-Speed Solid Rotor Homopolar Inductor Machine for Flywheel Energy Storage System. IEEE Transactions on Transportation Electrification, 2021, 7, 485-496.	5.3	24
33	An Online Data-Driven Multi-Objective Optimization of a Permanent Magnet Linear Synchronous Motor. IEEE Transactions on Magnetics, 2021, 57, 1-4.	1.2	11
34	An Acceleration Method for AC Steady State Performance of Dual Three-Phase Machine: Modeling and Implementation. , 2021, , .		0
35	Thrust characteristic improvement of permanent magnet linear synchronous motor based on multiobjective optimization. , 2021, , .		1
36	Multi-Objective Optimization for a Dual-Flux-Modulator Coaxial Magnetic Gear With Double-Layer Permanent Magnet Inner Rotor. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	3

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37	Research On the Application of Superconducting Magnetic Energy Storage in the Wind Power Generation System For Smoothing Wind Power Fluctuations. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	9
38	An Enhanced SVPWM Strategy Based on Vector Space Decomposition for Dual Three-Phase Machines Fed by Two DC-Source VSIs. IEEE Transactions on Power Electronics, 2021, 36, 9312-9321.	5.4	12
39	Permanent magnet temperature estimation of high power density permanent magnet synchronous machines by considering magnetic saturation. Journal of Power Electronics, 2021, 21, 1804-1811.	0.9	4
40	Joint Scanning Electromagnetic Thermography for Industrial Motor Winding Defect Inspection and Quantitative Evaluation. IEEE Transactions on Industrial Informatics, 2021, 17, 6832-6841.	7.2	6
41	Composite Speed Control of PMSM Drive System Based on Finite Time Sliding Mode Observer. IEEE Access, 2021, 9, 151803-151813.	2.6	9
42	Improved Model Predictive Control Without Using Weighting Factor for Quasi-Z-Source Inverter. , 2021, , .		1
43	DCâ€link voltage control strategy of Zâ€source inverter for highâ€speed permanent magnet motor. IET Electric Power Applications, 2020, 14, 911-920.	1.1	10
44	Robust Speed Sliding Mode Control for PMSM Based on A Novel Reaching Law and High-Order Fast Terminal Sliding-Mode Observer. , 2020, , .		2
45	Torque enhancement of dual threeâ€phase PMSM by harmonic injection. IET Electric Power Applications, 2020, 14, 1735-1744.	1.1	5
46	Characteristic Analysis and Predictive Torque Control of the Modular Three-Phase PMSM for Low-Voltage High Power Application. Energies, 2020, 13, 5606.	1.6	6
47	Multi-Objective Robust Optimization of a Dual-Flux-Modulator Magnetic Geared Machine With Hybrid Uncertainties. IEEE Transactions on Energy Conversion, 2020, 35, 2106-2115.	3.7	7
48	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. IEEE Access, 2020, 8, 87947-87959.	2.6	7
49	Novel Voltage Balancing Control Strategy for Dual-Active-Bridge Input-Series-Output-Parallel DC-DC Converters. IEEE Access, 2020, 8, 103114-103123.	2.6	28
50	Analysis of the Electromagnetic Performance of Homopolar Inductor Machine Through Nonlinear Magnetic Equivalent Circuit and Air-Gap Permeance Function. IEEE Transactions on Industry Applications, 2020, 56, 267-276.	3.3	22
51	Eddy Current Pulsed Thermography for Noncontact Nondestructive Inspection of Motor Winding Defects. IEEE Sensors Journal, 2020, 20, 2625-2634.	2.4	9
52	Characteristics and Current Harmonic Control of N* Three-Phase PMSG for HVDC Transmission Based on MMC. Energies, 2020, 13, 178.	1.6	6
53	Novel Compensation Method of Digital Delay for High-speed Permanent Magnet Synchronous Motor Under Low Carrier Ratio. , 2020, , .		2
54	ALL-DC Offshore Wind Farm With Series-Connected Wind Turbines to Overcome Unequal Wind Speeds. IEEE Transactions on Power Electronics, 2019, 34, 1370-1381.	5.4	40

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55	Seriesâ€connected singleâ€phase MMC for multiâ€phase PMSG with DC grid. IET Power Electronics, 2019, 12, 2179-2188.	1.5	6
56	Robust Nonlinear Predictive Current Control Techniques for PMSM. Energies, 2019, 12, 443.	1.6	18
57	A Reverse Model Predictive Control Strategy for a Modular Multilevel Converter. Energies, 2019, 12, 297.	1.6	5
58	Load Disturbance Observer-Based Complementary Sliding Mode Control for PMSM of the Mine Traction Electric Locomotive. International Journal of Fuzzy Systems, 2019, 21, 1051-1058.	2.3	16
59	A Novel Control Strategy for DC-Link Voltage Balance and Reactive Power Equilibrium of a Single-Phase Cascaded H-Bridge Rectifier. Energies, 2019, 12, 51.	1.6	2
60	Experimental Evaluation of Protecting High-Voltage Electrical Transformers Using Water Mist with and without Additives. Fire Technology, 2019, 55, 1671-1690.	1.5	13
61	Control of Dual Three-Phase Permanent Magnet Synchronous Machine Based on Five-Leg Inverter. IEEE Transactions on Power Electronics, 2019, 34, 11071-11079.	5.4	35
62	A Medium-Voltage Wind Generation System Based on MPMSG and MMC and Its Fault-Tolerant. , 2019, , .		0
63	Design and Parametric Analysis of a Long Stroke Magnetic-geared Flat Linear Machine with Low Material Costs. , 2019, , .		1
64	Optimized Vector Control strategy for Contrarotating Permanent Magnet Synchronous Motor under serious unbalanced load adopting torque compensation. , 2019, , .		2
65	DC-link Voltage Control Method for High Speed Motors powered by Z-source Inverter. , 2019, , .		0
66	Model Predictive Control of Bearingless Motor Model Based on Conditional Trigger. , 2019, , .		2
67	Analysis of Temperature Field For Special Vehicle Drive Motor. , 2019, , .		0
68	Optimal Efficiency Current Trajectory Control of Permanent Magnet Synchronous Motor Considering Cross Coupling and Magnetic Saturation. , 2019, , .		1
69	Parameters Optimization of the Permanent Magnet Linear Synchronous Machine Using Kriging-based Genetic Algorithm. , 2019, , .		0
70	Low-speed Sensorless MTPA Control of Interior Permanent Magnet Synchronous Motor Based on Parameter Self-learning. , 2019, , .		1
71	A Novel Three-level Submodule for Modular Multilevel Converter with DC Fault Blocking Capability. , 2019, , .		0
72	Multi-objective optimization of the motor with the novel Halbach permanent magnet array. , 2019, , .		4

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73	Research on simulation technology of megawatt wind turbine based on three-phase asynchronous motor. , 2019, , .		2
74	DC-link Voltage Sliding Mode Control of Z-source Inverter for High Speed Permanent Magnet Motors. , 2019, , .		1
75	Comparison Between High Frequency Sinusoidal Pulsating Voltage and Minimum-Voltage Vector Injection for Sensorless Control of PMSM Drives. , 2019, , .		3
76	A Robust Modified Model Predictive Control Algorithm for Quasi-Z Source Inverters. , 2019, , .		1
77	Inductance Parameter Identification Method of Permanent Magnet Synchronous Motor Based on the HF Rotating Square Wave Voltage Injection. , 2019, , .		10
78	Control Strategy of Modularized Ultra-capacitor Energy Storage System for Regenerative Braking Energy in Metro-Transit Systems. , 2019, , .		1
79	Improved-Reduced Order Generalized Integrator Based Sliding-Mode Observer for Interior Permanent Magnet Synchronous Motor Sensorless Control. , 2019, , .		3
80	A New Model Predictive Control Strategy for Quasi-Z-Source Inverters. , 2019, , .		1
81	Torque Feedforward Control based on sudden load change of double PWM permanent magnet electric drive system. , 2019, , .		1
82	Modified MMC and its capacitor voltage ripple suppression method employed in mediumâ€voltage wind generator system. IET Power Electronics, 2019, 12, 3185-3196.	1.5	7
83	A Genetic-Taguchi Global Design Optimization Strategy for Surface-Mounted PM Machine. , 2019, , .		1
84	A Generalized Design Framework for Neutral Point Voltage Balance of Three-Phase Vienna Rectifiers. IEEE Transactions on Power Electronics, 2019, 34, 10221-10232.	5.4	18
85	Multi-Objective Robust Optimization for a Dual-Flux-Modulator Coaxial Magnetic Gear. IEEE Transactions on Magnetics, 2019, 55, 1-8.	1.2	9
86	Novel Predictive Stator Flux Control Techniques for PMSM Drives. IEEE Transactions on Power Electronics, 2019, 34, 8916-8929.	5.4	33
87	Multiâ€objective optimisation of hydroelectric PMSG considering waterâ€level variation. Journal of Engineering, 2019, 2019, 5234-5239.	0.6	0
88	Noncontact Electromagnetic Induction Excited Infrared Thermography for Photovoltaic Cells and Modules Inspection. IEEE Transactions on Industrial Informatics, 2018, 14, 5585-5593.	7.2	45
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92	Simplified Junction Temperature Estimation using Integrated NTC Sensor for SiC Modules. , 2018, , .		14
93	HVDC Transmission Technology of Wind Power System with Multi-Phase PMSG. Energies, 2018, 11, 3294.	1.6	4
94	Research on Characteristics of Superconducting Magnetic Shield Repair Technology. , 2018, , .		0
95	Research on Magnetic Shielding Effectiveness of Different Materials Hollow Cylinder with Slits. , 2018, , .		1
96	Direct-Drive Conical-Rotor Permanent Magnet Synchronous Generator for Turbo-Expander, Accounting for Adaptive Equilibrium of Axial Force. IEEE Access, 2018, 6, 72889-72899.	2.6	2
97	Stabilization and Speed Control of a Permanent Magnet Synchronous Motor with Dual-Rotating Rotors. Energies, 2018, 11, 2786.	1.6	7
98	Fault Diagnosis Based on an Approach Combining a Spectrogram and a Convolutional Neural Network with Application to a Wind Turbine System. Energies, 2018, 11, 2561.	1.6	14
99	Research of Cryogenic Permanent Magnet Synchronous Motor for Submerged Liquefied Natural Gas Pump. IEEE Transactions on Energy Conversion, 2018, 33, 2030-2039.	3.7	14
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101	Induction Infrared Thermography and Thermal-Wave-Radar Analysis for Imaging Inspection and Diagnosis of Blade Composites. IEEE Transactions on Industrial Informatics, 2018, 14, 5637-5647.	7.2	69
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103	Dynamic Scanning Electromagnetic Infrared Thermographic Analysis Based on Blind Source Separation for Industrial Metallic Damage Evaluation. IEEE Transactions on Industrial Informatics, 2018, 14, 5610-5619.	7.2	39
104	Electrical safety of suppressing wildfires near high-voltage transmission lines using water mist. Journal of Fire Sciences, 2018, 36, 295-314.	0.9	9
105	Disturbance Observer-Based Backstepping Control of PMSM for the Mine Traction Electric Locomotive. Mathematical Problems in Engineering, 2018, 2018, 1-10.	0.6	6
106	Design of Cryogenic Permanent Magnet Synchronous Motor for Submerged Liquefied Natural Gas Pump. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	4
107	Electromagnetic Torque Analysis for All-Harmonic-Torque Permanent Magnet Synchronous Motor. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	15
108	Magnetic Field and Thrust Analysis of the U-Channel Air-Core Permanent Magnet Linear Synchronous Motor. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	19

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109	Torque ripple minimisation of permanent magnet synchronous motor using a new proportional resonant controller. IET Power Electronics, 2017, 10, 208-214.	1.5	54
110	Rideâ€tthrough strategy of quasiâ€Zâ€source wind power generation system under the asymmetrical grid voltage fault. IET Electric Power Applications, 2017, 11, 504-511.	1.1	6
111	Common-mode voltage supression of dual Y shift 30Â° six-phase electric machine. , 2017, , .		2
112	Overview of condition monitoring and operation control of electric power conversion systems in direct-drive wind turbines under faults. Frontiers of Mechanical Engineering, 2017, 12, 281-302.	2.5	15
113	Design of Position Estimation Strategy of Sensorless Interior PMSM at Standstill Using Minimum Voltage Vector Injection Method. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	10
114	Modulation Methods for Indirect Matrix Converter Extending the Input Reactive Power Range. IEEE Transactions on Power Electronics, 2017, 32, 4852-4863.	5.4	21
115	A Novel Grid-Connected PV System Based on MMC to Get the Maximum Power Under Partial Shading Conditions. IEEE Transactions on Power Electronics, 2017, 32, 4320-4333.	5.4	101
116	Axial magnetic force analysis of the direct-drive radial axial flow turbine with conical-rotor PM generator. , 2017, , .		0
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118	Characteristic analysis of the cryogenic permanent magnet synchronous motor for the submerged LNG pump. , 2017, , .		0
119	A Novel Optimal Current Trajectory Control Strategy of IPMSM Considering the Cross Saturation Effects. Energies, 2017, 10, 1460.	1.6	4
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123	Frequency splitting suppression method for fourâ€coil wireless power transfer system. IET Power Electronics, 2016, 9, 2859-2864.	1.5	26
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128	Control strategy for permanent magnet synchronous motor with contraâ€rotating rotors under unbalanced loads condition. IET Electric Power Applications, 2015, 9, 71-79.	1.1	30
129	An enhanced reliability method of initial angle detection on surface mounted permanent magnet synchronous motor. , 2014, , .		1
130	Grid-connected control of high-speed permanent magnetic generator based on Z-source inverter. , 2014, , .		0
131	A simplified method for controlling the Modular Multi-level Converter energy based on modified Carrier Phase-Shift Modulation. , 2014, , .		0
132	Independent torque control of two rotors of an axial-flux PMSM with contra-rotating rotors using a single inverter. , 2014, , .		2
133	The control method of modular multi-level converter based on low and high frequency circulating current. , 2014, , .		0
134	A Comparative Study Between Novel and Conventional Four-Resonator Coil Structures in Wireless Power Transfer. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	8
135	Research on optimal design of permanent magnet synchronous motors based on field-circuit coupled method. , 2014, , .		1
136	Cogging Torque Reduction by Slot-Opening Shift for Permanent Magnet Machines. IEEE Transactions on Magnetics, 2013, 49, 4028-4031.	1.2	61
137	Research and development of honeycomb ceramics' on-line automatic checkout system based on machine vision. , 2013, , .		0
138	Design and test for permanent magnet wind power generators based on converter controlling modeling. , 2013, , .		1
139	DCâ€bus voltage control of gridâ€connected voltage source converter by using space vector modulated direct power control under unbalanced network conditions. IET Power Electronics, 2013, 6, 925-934.	1.5	38
140	An attempt to improve the braking capacities of eddy current retarder with double-rotor excitation structure. , 2013, , .		0
141	Sliding mode based on active-disturbance rejection controller for pulse width modulation rectifier under asymmetrical input voltages. , 2013, , .		3
142	Direct torque control for PMSM based on model reference adaptive system. , 2013, , .		4
143	Optimal design of the rotor structure for interior permanent magnet synchronous motor. , 2011, , .		6
144	A novel SVM-DPC control method for grid connected AC-DC converters under asymmetrical fault. , 2011, , .		5

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145	IPMSM sensorless control based on fuzzy active-disturbance rejection controller for electric vehicle. , 2011, , .		3
146	Sensorless control of direct-driven permanent magnet wind power generation system based on improved MRAS. , 2011, , .		4
147	Air-gap flux oriented vector control for the sensorless bearingless permanent magnetic motor. , 2011, , .		2
148	Sensorless control for direct-drive PMSG wind turbines based on sliding mode observer. , 2011, , .		3
149	Curve analog control of maximum torque per ampere for permanent magnet synchronous motor used in electric vehicles. , 2011, , .		0
150	Direct torque control for permanent synchronous motor based on sliding observer. , 2011, , .		1
151	Effect of the number of slots per pole on performance of permanent magnet generator direct-driven by wind turbine. , 2011, , .		8
152	Optimal design of the direct-driven high power permanent magnet generator turbine by wind. , 2011, , .		2
153	Sliding mode SVM-DPC for grid-side converter of D-PMSG under asymmetrical faults. , 2011, , .		7
154	A novel position controller for PMSM servo system based on variable structure active disturbance rejection controller. , 2011, , .		3
155	Improved method on flux-weakening control of permanent magnet synchronous motor in electric vehicles. , 2011, , .		4
156	Optimization design of permanent magnet synchronous servo motor with new high dynamic performance. , 2011, , .		2
157	Simulation study of the fuzzy-PID control system for brushless DC motors. , 2011, , .		0
158	Optimization the Electromagnetic Torque Ripple of Permanent Magnet Synchronous Motor. , 2010, , .		14
159	Optimum Design of Permanent Magnet Synchronous Motor Based on Gene Handling Genetic Algorithms. , 2010, , .		4
160	Maximum torque per ampere and flux-weakening control for PMSM based on curve fitting. , 2010, , .		16
161	Wind Prediction Based on Improved BP Artificial Neural Network in Wind Farm. , 2010, , .		6
162	Research of PWM rectifier under unbalanced input voltages control method. , 2010, , .		0

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163	Comparison of control performance of PMSM of different rotor structure. , 2010, , .		0
164	Application of a novel soft phase-locked loop in directly-driven permanent magnet wind power generation system. , 2009, , .		0
165	Method for optimize the air gap flux density of permanent magnet synchronous motor. , 2009, , .		3
166	Some Practical Consideration of a 2MW Direct-Drive Permanent-Magnet Wind-Power Generation System. , 2009, , .		5
167	Experimental evaluation of sensorless control for doubly-fed induction wind power generator. , 2009, , .		3
168	Winding layers and slot/pole combination in fractional slot/pole PMSM—Effects on motor performance. , 2009, , .		11
169	A Novel Variable Step Hill-Climb Search Algorithm Used for Direct Driven PMSG. , 2009, , .		5
170	Study and design of the hybrid excitation synchronous generator operating constant voltage over a wide range of speeds. , 2008, , .		1
171	Study of neural network application on direct torque control of induction machine. , 0, , .		1