

Fengge Zhang

List of Publications by Year in descending order

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108
all docs

108
docs citations

108
times ranked

572
citing authors

#	ARTICLE	IF	CITATIONS
1	Rotor Retaining Sleeve Design for a 1.12-MW High-Speed PM Machine. IEEE Transactions on Industry Applications, 2015, 51, 3675-3685.	4.9	136
2	Parameter and performance comparison of doubly fed brushless machine with cage and reluctance rotors. IEEE Transactions on Industry Applications, 2002, 38, 1237-1243.	4.9	120
3	Design and Performance Comparisons of Brushless Doubly Fed Generators With Different Rotor Structures. IEEE Transactions on Industrial Electronics, 2019, 66, 631-640.	7.9	59
4	New Modular Structure DC-DC Converter Without Electrolytic Capacitors for Renewable Energy Applications. IEEE Transactions on Sustainable Energy, 2014, 5, 1184-1192.	8.8	42
5	Fuzzy Sliding Mode Control of Magnetic Levitation System of Controllable Excitation Linear Synchronous Motor. IEEE Transactions on Industry Applications, 2020, 56, 5585-5592.	4.9	26
6	Study on Counter-Rotating Dual-Rotor Permanent Magnet Motor for Underwater Vehicle Propulsion. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	25
7	Effects of Design Parameters on Performance of Brushless Electrically Excited Synchronous Reluctance Generator. IEEE Transactions on Industrial Electronics, 2018, 65, 9179-9189.	7.9	24
8	Controller Strategy for Open-Winding Brushless Doubly Fed Wind Power Generator With Common Mode Voltage Elimination. IEEE Transactions on Industrial Electronics, 2019, 66, 1098-1107.	7.9	20
9	Overview of research and development status of brushless doubly-fed machine system. Chinese Journal of Electrical Engineering, 2016, 2, 1-13.	3.4	19
10	Research of a Novel Brushless Doubly-Fed Generator With Hybrid Rotor. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	18
11	Simulation and Experimental Analysis of a Brushless Electrically Excited Synchronous Machine With a Hybrid Rotor. IEEE Transactions on Magnetics, 2015, 51, 1-7.	2.1	15
12	Design of HSIPMM based on multi-physics fields. IET Electric Power Applications, 2018, 12, 1098-1103.	1.8	14
13	Optimized Power Error Comparison Strategy for Direct Power Control of the Open-Winding Brushless Doubly Fed Wind Power Generator. IEEE Transactions on Sustainable Energy, 2019, 10, 2005-2014.	8.8	14
14	Design and Performance Analysis of Dual-Stator Brushless Doubly-Fed Machine With Cage-Barrier Rotor. IEEE Transactions on Energy Conversion, 2019, 34, 1347-1357.	5.2	13
15	Characteristic study on a novel PMSM with opposite-rotation dual rotors. , 2007, , .		13
16	A Novel Thermal Network Model Used for Temperature Calculation and Analysis on Brushless Doubly-Fed Generator With Winding Encapsulating Structure. IEEE Transactions on Industry Applications, 2019, 55, 1473-1483.	4.9	11
17	Electromagnetic and Structural Design of a Novel Low-Speed High-Torque Motor With Dual-Stator and PM-Reluctance Rotor. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	11
18	Design of arc fault detection system based on CAN bus. , 2009, , .		10

#	ARTICLE	IF	CITATIONS
19	Modeling and simulation of variable speed constant frequency wind power generation system with doubly fed brushless machine. , 0, , .		9
20	Analysis of vibration modes for large induction motor. , 2005, , .		9
21	Parameter Calculation and Analysis of a Novel Wind Power Generator. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	9
22	Comprehensive analysis of suspending force for improved bearingless switched reluctance motor with permanent magnets in stator yoke. CES Transactions on Electrical Machines and Systems, 2018, 2, 348-354.	3.5	9
23	Influence of Slot Combination on Performance of Brushless Doubly Fed Generator With Hybrid Rotor. IEEE Transactions on Magnetics, 2019, 55, 1-6.	2.1	9
24	Novel space vector PWM technology with lower commonâ€mode voltage for dual threeâ€phase PMSM. IET Power Electronics, 2020, 13, 1426-1433.	2.1	9
25	A Multi-Pole Low Speed Doubly Fed Brushless Generator for Direct Driven VSCF Wind Power System. , 2006, , .		8
26	Research on Counter-rotating Dual Rotors Permanent-magnet Machine for underwater vehicle. , 2014, , .		8
27	The research on mechanical properties of direct drive high-speed permanent-magnet machine for compression. , 2015, , .		8
28	Loss Estimation of Brushless Doubly-Fed Generator With Hybrid Rotor Considering Multiple Influence Factors. IEEE Access, 2020, 8, 60043-60051.	4.2	8
29	Investigation on structure of stator core and winding for high speed PM machines. , 2005, , .		7
30	Design and finite element analysis on a novel PMSM with anti-rotation dual rotor. , 2009, , .		7
31	Analysis of the 3D steady temperature field of MW high speed permanent magnet motor. , 2013, , .		7
32	Study on electrically excitation system of a novel brushless synchronous machine. , 2014, , .		7
33	Design and analysis of 100kW high speed permanent magnet synchronous motor. , 2016, , .		7
34	Design of Double Stator Permanent Magnet Synchronous Motor With Low Speed Large Torque. , 2018, , .		7
35	Simulation Research on Wind Solar Hybrid Power System Based on Fuzzy-PID Control. , 2007, , .		7
36	Analysis and reduction of cogging torque in directâ€drive externalâ€rotor permanent magnet synchronous motor for belt conveyor application. IET Electric Power Applications, 2021, 15, 668-680.	1.8	6

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37	The structure and adjusting speed characteristics of new type of doubly-fed brushless machine with ALA rotor. European Transactions on Electrical Power, 2006, 16, 409-421.	1.0	5
38	Modeling and Simulation of a Novel Disk Brushless Doubly-Fed Machine for Adjusting-Speed Drive. , 2007, , .		5
39	The design and FEA of brushless doubly-fed machine with hybrid rotor. , 2009, , .		5
40	Electromagnetic design of 5MW dual-stator brushless doubly-fed generator with hybrid rotor. , 2016, , .		5
41	An efficient multidisciplinary design research for the integrated low speed permanent magnet motor system based on analytical and numerical hybrid analysis. Energy Reports, 2022, 8, 199-208.	5.1	5
42	Study on cogging torque reduction methods of PM stepping motor. , 0, , .		4
43	Research on active power filter for distributed power system of high speed generator driven by micro-turbine. , 0, , .		4
44	Characteristic Simulation of a Novel PMSM with Opposite-rotation Dual Rotors. , 2007, , .		4
45	Speed sensorless direct torque control of brushless doubly-fed generator for wind power generation. , 2009, , .		4
46	Performance analysis on a novel brushless doubly fed machine with hybrid rotor structure. , 2011, , .		4
47	An improved capacity ratio design method based on complementary characteristics of wind and solar. , 2013, , .		4
48	Performance comparison of direct power control for brushless doubly-fed wind power generator with different control winding structure. , 2016, , .		4
49	Research on harmonic current suppression technology of permanent magnet synchronous motor based on surrogate mode. , 2017, , .		4
50	Improved E&S Model for Core Loss Calculation of Brushless Doubly Fed Machine With Hybrid Rotor. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	4
51	Rotor optimisation design and performance comparison of BDFC for wind power generation. IET Electric Power Applications, 2019, 13, 370-378.	1.8	4
52	A Novel Moving Coil Linear-Rotary Electromagnetic Actuator based on Unipolar Permanent Magnet. , 2019, , .		4
53	Effect of Multi-Size Magnetic Powder Gradation on Magnetic Properties of Novel Composite Magnetic Materials for HSPMSM. IEEE Transactions on Transportation Electrification, 2022, 8, 3594-3605.	7.8	4
54	The Effect of Design Parameters on Coupling Capability of Brushless Doubly Fed Wind Power Generator. , 2006, , .		3

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55	Design and Realization of Controller in Wind Solar Hybrid Generating System. , 2008, , .		3
56	Efficiency analysis and heating structure design of high power electromagnetic thermal energy storage system. , 2015, , .		3
57	Temperature field calculation and experimental research on brushless doubly fed machine with hybrid rotor. , 2017, , .		3
58	Magnetic Properties Analysis of Novel Composite Magnetic Materials for HSPMSMs. IEEE Transactions on Magnetics, 2022, 58, 1-10.	2.1	3
59	Study on control technology of double rotor PMSM in underwater vehicle. , 2009, , .		2
60	Study on design of Brushless Doubly-Fed Machine with a new type rotor. , 2009, , .		2
61	Study and design of 3-D flux permanent magnet claw-pole motor with SMC stator. , 2009, , .		2
62	H<inf>∞</inf> robust control for VSCF brushless doubly-fed wind power generator system. , 2009, , .		2
63	Structure design and dynamics analysis on high speed claw pole machine with outer permanent magnet rotor. , 2013, , .		2
64	Design and develop of a MW direct drive high-speed permanent-magnet machine for compression. , 2013, , .		2
65	Design and performance analysis of segmental rotor type 12/8 switched reluctance motor. , 2014, , .		2
66	Rotor optimization design of brushless doubly fed generator for offshore wind turbine. , 2017, , .		2
67	Equivalent circuit and characteristic simulation of a brushless electrically excited synchronous wind power generator. Frontiers of Mechanical Engineering, 2017, 12, 420-426.	4.3	2
68	Electromagnetic Design and Analysis of Single Hybrid Rotor Double Stator Low Speed Motor. , 2019, , .		2
69	Rotor electrical conductivity and eddy current loss analysis of high-speed permanent magnet machine with a novel composite rotor. IET Electric Power Applications, 2022, 16, 15-28.	1.8	2
70	Study on equivalent circuit of doubly fed brushless reluctance machine based on frequency referring. , 2005, , .		1
71	Dynamic Simulation of a Novel Adjusting Speed Induction Machine with Inner and Outer Rotors. , 2006, , .		1
72	Characteristic Simulation of Adjusting Speed System With Doubly-Fed Brushless Machine. , 2006, , .		1

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73	Study on a New Type of Permanent Magnet Claw Pole Motor with Outer Rotor. , 2008, , .		1
74	Modeling and SVPWM strategy of a novel dual-inverter-fed open-winding brushless doubly-fed generator for wind applications. , 2013, , .		1
75	Loss analysis of axial sectional claw pole high speed motor with permanent magnet outer rotor. , 2013, , .		1
76	Performance analysis of permanent magnet claw pole machine for integrated starter-generator. , 2014, , .		1
77	Research on the open winding strategy of brushless doubly-fed generator. , 2014, , .		1
78	Losses calculation and temperature field analysis of electrically excited brushless synchronous motor. , 2015, , .		1
79	The research on temperature field and flow field of brushless doubly-fed generator with cage-barrier rotor. , 2017, , .		1
80	Electromagnetic Characteristics Analysis of High Speed Generator with Permanent Magnet Layered Bundling Structure. , 2018, , .		1
81	Study on Different Connection Modes of Dual-Stator Brushless Doubly-Fed Machine Based on Field-Circuit Method. Journal of Electrical Engineering and Technology, 2019, 14, 311-321.	2.0	1
82	Magnetic Circuit Model and Finite Element Analyze of Stator Excitation Transverse Flux High Speed Permanent Magnet Synchronous Machine. , 2019, , .		1
83	Fuzzy Sliding Mode Control of Magnetic Levitation System of Controllable Excitation Linear Synchronous Motor. , 2019, , .		1
84	Novel rotor design of dual-stator brushless doubly fed generator based on surrogate model. IET Renewable Power Generation, 2021, 15, 2033-2041.	3.1	1
85	Multi-objective optimisation of the HSPMM rotor based on the multi-physics surrogate model. IET Electric Power Applications, 0, , .	1.8	1
86	Investigation of appropriate pole number combination for disk brushless doubly-fed machine. , 2007, , .		1
87	Optimization Analysis of Rotor Structure Parameters on Permanent Magnet Assisted Reluctance Synchronous Motor. , 2021, , .		1
88	Parameter and performance comparison of doubly-fed brushless machine with cage and reluctance rotors. , 0, , .		0
89	L<inf>2</inf> robust control for brushless doubly-fed wind power generator. , 2009, , .		0
90	Generation matching and economic evaluation of household wind/PV hybrid power system. , 2009, , .		0

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91	Performance analysis and experimental research on multi-section claw pole machine with outer PM rotor. , 2011, , .		0
92	Performance of brushless doubly-fed synchronous generator with hybrid rotor. , 2013, , .		0
93	Research on performance of brushless electric excitation synchronous machine. , 2013, , .		0
94	Electromagnetic design and dynamic performance study of electrically excited brushless synchronous motor. , 2013, , .		0
95	Efficiency of switched reluctance generator according to current shape below rated speed. , 2013, , .		0
96	Magnetic field modulation mechanism and characteristic simulation of electrically excited brushless synchronous machine. , 2014, , .		0
97	Design on controller of claw pole motor with PM outer rotor. , 2014, , .		0
98	Rotor retaining sleeve design of 1.12MW high-speed PM machine for shipboard power. , 2014, , .		0
99	Maximum power point tracking control of brushless doubly-fed wind power generator with open winding fed by dual two-level inverters. , 2014, , .		0
100	An Improved Optimal Capacity Ratio Design Method for WSB/HPS System Based on Complementary Characteristics of Wind and Solar. Mathematical Problems in Engineering, 2015, 2015, 1-8.	1.1	0
101	Direct power control with common mode voltage elimination for open-winding brushless doubly-fed wind power generators. , 2016, , .		0
102	Electromagnetic design and optimization of dual-stator brushless doubly-fed wind power generator with cage-carrier rotor. Wind Energy, 2019, 22, 713-731.	4.2	0
103	Air-Gap Magnetic Field Analysis of Dual-Stator Brushless Doubly-Fed Generator Based on Analytic Method. , 2019, , .		0
104	Electromagnetic and mechanical design of module dual stator brushless doubly-fed generator for offshore wind turbine. IET Renewable Power Generation, 2021, 15, 631-640.	3.1	0
105	Fault-tolerant control of an open-winding brushless doubly-fed wind power generator system with dual three-level converter. Frontiers in Energy, 2023, 17, 149-164.	2.3	0
106	Research on Optimization Method of High Speed Permanent Magnet Synchronous Motor Based on Surrogate Model. , 2021, , .		0
107	Rotor Sleeve Analysis of High-Speed PMSM Consider Eddy Current Loss and Stress. , 2021, , .		0