Fengge Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2921627/publications.pdf

Version: 2024-02-01

		759233	580821
107	859	12	25
papers	citations	h-index	g-index

108	108	108	572
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Rotor electrical conductivity and eddy current loss analysis of highâ€speed permanent magnet machine with a novel composite rotor. IET Electric Power Applications, 2022, 16, 15-28.	1.8	2
3	Magnetic Properties Analysis of Novel Composite Magnetic Materials for HSPMSMs. IEEE Transactions on Magnetics, 2022, 58, 1-10.	2.1	3
4	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
5	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
6	Electromagnetic and mechanical design of module dual stator brushless doublyâ€fed generator for offshore wind turbine. IET Renewable Power Generation, 2021, 15, 631-640.	3.1	0
7	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
8	Novel rotor design of dualâ€stator brushless doubly fed generator based on surrogate model. IET Renewable Power Generation, 2021, 15, 2033-2041.	3.1	1
9	Research on Optimization Method of High Speed Permanent Magnet Synchronous Motor Based on Surrogate Model. , 2021, , .		0
10	Optimization Analysis of Rotor Structure Parameters on Permanent Magnet Assisted Reluctance Synchronous Motor. , 2021, , .		1
11	Rotor Sleeve Analysis of High-Speed PMSM Consider Eddy Current Loss and Stress. , 2021, , .		0
12	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
13	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
14	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
15	Loss Estimation of Brushless Doubly-Fed Generator With Hybrid Rotor Considering Multiple Influence Factors. IEEE Access, 2020, 8, 60043-60051.	4.2	8
16	Rotor optimisation design and performance comparison of BDFG for wind power generation. IET Electric Power Applications, 2019, 13, 370-378.	1.8	4
17	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
18	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

#	Article	IF	Citations
19	Electromagnetic design and optimization of dualâ€stator brushless doublyâ€fed wind power generator with cageâ€barrier rotor. Wind Energy, 2019, 22, 713-731.	4.2	0
20	A Novel Moving Coil Linear-Rotary Electromagnetic Actuator based on Unipolar Permanent Magnet. , 2019, , .		4
21	Magnetic Circuit Model and Finite Element Analyze of Stator Excitation Transverse Flux High Speed Permanent Magnet Synchronous Machine. , 2019, , .		1
22	Fuzzy Sliding Mode Control of Magnetic Levitation System of Controllable Excitation Linear Synchronous Motor. , 2019, , .		1
23	Electromagnetic Design and Analysis of Single Hybrid Rotor Double Stator Low Speed Motor. , 2019, , .		2
24	Air-Gap Magnetic Field Analysis of Dual-Stator Brushless Doubly-Fed Generator Based on Analytic Method. , 2019, , .		0
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	Electromagnetic Characteristics Analysis of High Speed Generator with Permanent Magnet Layered Bundling Structure. , 2018, , .		1
33	Design of Double Stator Permanent Magnet Synchronous Motor With Low Speed Large Torque. , 2018, , .		7
34	Design of HSIPMM based on multiâ€physics fields. IET Electric Power Applications, 2018, 12, 1098-1103.	1.8	14
35	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
36	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

#	Article	IF	Citations
37	Parameter Calculation and Analysis of a Novel Wind Power Generator. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	9
38	Rotor optimization design of brushless doubly fed generator for offshore wind turbine. , 2017, , .		2
39	Research on harmonic current suppression technology of permanent magnet synchronous motor based on surrogate mode. , 2017, , .		4
40	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
41	The research on temperature field and flow field of brushless doubly-fed generator with cage-barrier rotor. , 2017, , .		1
42	Temperature field calculation and experimental research on brushless doubly fed machine with hybrid rotor. , 2017, , .		3
43	Electromagnetic design of 5MW dual-stator brushless doubly-fed generator with hybrid rotor. , 2016, , .		5
44	Design and analysis of 100kW high speed permanent magnet synchronous motor. , 2016, , .		7
45	Direct power control with common mode voltage elimination for open-winding brushless doubly-fed wind power generators. , 2016, , .		0
46	Performance comparison of direct power control for brushless doubly-fed wind power generator with different control winding structure. , 2016, , .		4
47	Research of a Novel Brushless Doubly-Fed Generator With Hybrid Rotor. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	18
48	Overview of research and development status of brushless doubly-fed machine system. Chinese Journal of Electrical Engineering, 2016, 2, 1-13.	3.4	19
49	Efficiency analysis and heating structure design of high power electromagnetic thermal energy storage system. , 2015, , .		3
50	The research on mechanical properties of direct drive high-speed permanent-magnet machine for compression. , 2015, , .		8
51	Losses calculation and temperature field analysis of electrically excited brushless synchronous motor. , 2015, , .		1
52	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
53	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
54	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

#	Article	IF	Citations
55	Performance analysis of permenant magnet claw pole machine for integrated starter-generator. , 2014, , .		1
56	Magnetic field modulation mechanism and characteristic simulation of electrically excited brushless synchronous machine. , 2014, , .		0
57	Design on controller of claw pole motor with PM outer rotor. , 2014, , .		0
58	Research on Counter-rotating Dual Rotors Permanent-magnet Machine for underwater vehicle. , 2014, , .		8
59	Rotor retaining sleeve design of 1.12MW high-speed PM machine for shipboard power. , 2014, , .		0
60	Research on the open winding strategy of brushless doubly-fed generator. , 2014, , .		1
61	Study on electrically excitation system of a novel brushless synchronous machine. , 2014, , .		7
62	Maximum power point tracking control of brushless doubly-fed wind power generator with open winding fed by dual two-level inverters. , 2014, , .		0
63	Design and performance analysis of segmental rotor type 12/8 switched reluctance motor. , 2014, , .		2
64	New Modular Structure DCâ€“DC Converter Without Electrolytic Capacitors for Renewable Energy Applications. IEEE Transactions on Sustainable Energy, 2014, 5, 1184-1192.	8.8	42
65	An improved capacity ratio design method based on complementary characteristics of wind and solar. , 2013, , .		4
66	Performance of brushless doubly-fed synchronous generator with hybrid rotor. , 2013, , .		0
67	Structure design and dynamics analysis on high speed claw pole machine with outer permanent magnet rotor. , 2013, , .		2
68	Modeling and SVPWM strategy of a novel dual-inverter-fed open-winding brushless doubly-fed generator for wind applications. , 2013, , .		1
69	Research on performance of brushless electric excitation synchronous machine. , 2013, , .		0
70	Design and develop of a MW direct drive high-speed permanent-magnet machine for compression. , 2013, , .		2
71	Analysis of the 3D steady temperature field of MW high speed permanent magnet motor. , 2013, , .		7
72	Electromagnetic design and dynamic performance study of electrically excited brushless synchronous motor. , 2013, , .		0

#	Article	IF	Citations
73	Loss analysis of axial sectional claw pole high speed motor with permanent magnet outer rotor. , 2013, , .		1
74	Efficiency of switched reluctance generator according to current shape below rated speed. , 2013, , .		0
75	Performance analysis on a novel brushless doubly fed machine with hybrid rotor structure. , 2011, , .		4
76	Performance analysis and experimental research on multi-section claw pole machine with outer PM rotor. , 2011, , .		0
77	Study on control technology of double rotor PMSM in underwater vehicle. , 2009, , .		2
78	L<inf>2</inf> robust control for brushless doubly-fed wind power generator. , 2009, , .		0
79	Study on design of Brushless Doubly-Fed Machine with a new type rotor. , 2009, , .		2
80	The design and FEA of brushless doubly-fed machine with hybrid rotor. , 2009, , .		5
81	Study and design of 3-D flux permanent magnet claw-pole motor with SMC stator. , 2009, , .		2
82	Design of arc fault detection system based on CAN bus. , 2009, , .		10
83	Design and finite element analysis on a novel PMSM with anti-rotation dual rotor. , 2009, , .		7
84	Generation matching and economic evaluation of household wind/PV hybrid power system. , 2009, , .		0
85	H<inf>∞</inf> robust control for VSCF brushless doubly-fed wind power generator system. , 2009, , .		2
86	Speed sensorless direct torque control of brushless doubly-fed generator for wind power generation. , 2009, , .		4
87	Design and Realization of Controller in Wind Solar Hybrid Generating System. , 2008, , .		3
88	Study on a New Type of Permanent Magnet Claw Pole Motor with Outer Rotor. , 2008, , .		1
89	Modeling and Simulation of a Novel Disk Brushless Doubly-Fed Machine for Adjusting-Speed Drive. , 2007, , .		5
90	Characteristic Simulation of a Novel PMSM with Opposite-rotation Dual Rotors. , 2007, , .		4

#	Article	IF	Citations
91	Investigation of appropriate pole number combination for disk brushless doubly-fed machine. , 2007, , .		1
92	Simulation Research on Wind Solar Hybrid Power System Based on Fuzzy-PID Control. , 2007, , .		7
93	Characteristic study on a novel PMSM with opposite-rotation dual rotors. , 2007, , .		13
94	Dynamic Simulation of a Novel Adjusting Speed Induction Machine with Inner and Outer Rotors. , 2006, , .		1
95	The Effect of Design Parameters on Coupling Capability of Brushless Doubly Fed Wind Power Generator. , 2006, , .		3
96	Characteristic Simulation of Adjusting Speed System With Doubly-Fed Brushless Machine. , 2006, , .		1
97	A Multi-Pole Low Speed Doubly Fed Brushless Generator for Direct Driven VSCF Wind Power System. , 2006, , .		8
98	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
99	Analysis of vibration modes for large induction motor. , 2005, , .		9
100	Investigation on structure of stator core and winding for high speed PM machines. , 2005, , .		7
101	Study on equivalent circuit of doubly fed brushless reluctance machine based on frequency referring. , 2005, , .		1
102	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
103	Parameter and performance comparison of doubly-fed brushless machine with cage and reluctance rotors. , 0, , .		0
104	Study on cogging torque reduction methods of PM stepping motor. , 0, , .		4
105	Research on active power filter for distributed power system of high speed generator driven by micro-turbine. , 0, , .		4
106	Modeling and simulation of variable speed constant frequency wind power generation system with doubly fed brushless machine. , 0, , .		9
107	Multiâ€objective optimisation of the HSPMM rotor based on the multiâ€physics surrogate model. IET Electric Power Applications, 0, , .	1.8	1