

Xiuhe Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Cogging Torque Minimization and Torque Ripple Suppression in Surface-Mounted Permanent Magnet Synchronous Machines Using Different Magnet Widths. IEEE Transactions on Magnetics, 2013, 49, 2295-2298.	2.1	111
2	The optimization of pole arc coefficient to reduce cogging torque in surface-mounted permanent magnet motors. IEEE Transactions on Magnetics, 2006, 42, 1135-1138.	2.1	110
3	Reduction on Cogging Torque in Flux-Switching Permanent Magnet Machine by Teeth Notching Schemes. IEEE Transactions on Magnetics, 2012, 48, 4228-4231.	2.1	95
4	Design and Analysis of Different Line-Start PM Synchronous Motors for Oil-Pump Applications. IEEE Transactions on Magnetics, 2009, 45, 1816-1819.	2.1	94
5	Design, Optimization, and Prototyping of Segmental-Type Linear Switched-Reluctance Motor With a Toroidally Wound Mover for Vertical Propulsion Application. IEEE Transactions on Industrial Electronics, 2018, 65, 1865-1874.	7.9	57
6	Integrated Optimization of Two Design Techniques for Cogging Torque Reduction Combined With Analytical Method by a Simple Gradient Descent Method. IEEE Transactions on Magnetics, 2012, 48, 2265-2276.	2.1	54
7	Design and Analysis of a Novel PM-Assisted Synchronous Reluctance Machine With Axially Integrated Magnets by the Finite-Element Method. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	50
8	A Novel Line-Start Permanent Magnet Synchronous Motor With 6/8 Pole Changing Stator Winding. IEEE Transactions on Energy Conversion, 2018, 33, 1164-1174.	5.2	34
9	Starting Performance Improvement of Line-Start Permanent-Magnet Synchronous Motor Using Composite Solid Rotor. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	33
10	Study of a Novel Energy Efficient Single-Phase Induction Motor With Three Series-Connected Windings and Two Capacitors. IEEE Transactions on Energy Conversion, 2010, 25, 433-440.	5.2	31
11	A New Hybrid Permanent Magnet Synchronous Reluctance Machine With Axially Sandwiched Magnets for Performance Improvement. IEEE Transactions on Energy Conversion, 2018, 33, 2018-2029.	5.2	31
12	Unitized Design Methodology of Linear Switched Reluctance Motor With Segmental Secondary for Long Rail Propulsion Application. IEEE Transactions on Industrial Electronics, 2018, 65, 9884-9894.	7.9	28
13	Design and Comparison of a High Force Density Dual Side Linear Switched Reluctance Motor for Long rail propulsion Application. IEEE Transactions on Magnetics, 2017, , 1-1.	2.1	27
14	Performance analysis of single-phase induction motor based on voltage source complex finite-element analysis. IEEE Transactions on Magnetics, 2006, 42, 587-590.	2.1	26
15	A New Hybrid Excitation Permanent Magnet Machine With an Independent AC Excitation Port. IEEE Transactions on Industrial Electronics, 2019, 66, 5872-5882.	7.9	24
16	Design of a Large Capacity Line-Start Permanent Magnet Synchronous Motor Equipped With Hybrid Salient Rotor. IEEE Transactions on Industrial Electronics, 2021, 68, 6662-6671.	7.9	23
17	Analytical Electromagnetic Performance Calculation of Vernier Hybrid Permanent Magnet Machine. IEEE Transactions on Magnetics, 2018, 54, 1-12.	2.1	20
18	Analysis on a Novel Flux Adjustable Permanent Magnet Coupler With a Double-Layer Permanent Magnet Rotor. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	20

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19	Analytical calculation of magnetic field and electromagnetic performance of flux reversal machines. IET Electric Power Applications, 2014, 8, 178-188.	1.8	19
20	Optimal Design of a Spoke-type Permanent Magnet Motor with Phase-group Concentrated-coil Windings to Minimize Torque Pulsations. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	18
21	Performance Characteristics and Preliminary Analysis of Low Cost Tubular Linear Switch Reluctance Generator for Direct Drive WEC. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	17
22	Reduction of Radial Electromagnetic Force Waves Based on PM Segmentation in SPMSMs. IEEE Transactions on Magnetics, 2020, 56, 1-7.	2.1	17
23	Calculation Method for Natural Frequencies of Stator of Permanent Magnet Synchronous Motors Based on Three-Dimensional Elastic Theory. IEEE Transactions on Energy Conversion, 2021, 36, 755-766.	5.2	17
24	Cogging torque reduction based on segmented skewing magnetic poles with different combinations of pole-pair coefficients in surface-mounted permanent magnet synchronous motors. IET Electric Power Applications, 2021, 15, 200-213.	1.8	17
25	Design and Performance Evaluation of a Tubular Linear Switched Reluctance Generator with Low Cost and High Thrust Density. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	16
26	Research on weakening measure of radial electromagnetic force waves in permanent magnet synchronous motors by inserting auxiliary slots. IET Electric Power Applications, 2020, 14, 1381-1395.	1.8	16
27	Research of cogging torque reduction by different slot width pairing permanent magnet motors. , 2005, , .		15
28	Novel Rotor Design for Single-Phase Flux Switching Motor. IEEE Transactions on Energy Conversion, 2018, 33, 354-361.	5.2	15
29	Performance Analysis and Design Optimization of an Annular Winding Bilateral Linear Switch Reluctance Machine for Low Cost Linear Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	14
30	Comparative Parameters Investigation of Composite Solid Rotor Applied to Line-Start Permanent-Magnet Synchronous Motors. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	14
31	The modal analysis of the stator of the interior permanent magnet synchronous motor. , 2017, , .		13
32	Magnetic Field Prediction of the Saturated Surface-Mounted Permanent Magnet Synchronous Machine With Rotor Eccentricity. IEEE Transactions on Industrial Electronics, 2022, 69, 7756-7766.	7.9	13
33	Thermal Identification, Model, and Experimental Validation of a Toroidally Wound Mover Linear-Switched Reluctance Machine. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	12
34	Study on Shaft Voltage in Fractional Slot Permanent Magnet Machine With Different Pole and Slot Number Combinations. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	12
35	Analysis of a Novel Surface-Mounted Permanent Magnet Motor With Hybrid Magnets for Low Cost and Low Torque Pulsation. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	12
36	Optimal Design and Experimental Test of a SPM Motor With Cost-Effective Magnet Utilization to Suppress Torque Pulsations. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	11

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37	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
38	Electromagnetic force density calculation in surface-mounted PM synchronous machine with rotor eccentricity by an equivalent transformation method. IET Electric Power Applications, 2020, 14, 192-203.	1.8	11
39	Demagnetization analysis of line-start permanent magnet synchronous motor with composite rotor under abnormal conditions. , 2017, , .		9
40	The modal analysis of the stator of the interior permanent magnet machine. , 2017, , .		8
41	Analytical magnetic field prediction of flux switching machine with segmental rotor. IET Electric Power Applications, 2019, 13, 91-100.	1.8	8
42	Comparative Analysis of Different Topologies of Linear Switched Reluctance Motor With Segmented Secondary for Vertical Actuation Systems. IEEE Transactions on Energy Conversion, 2021, 36, 2634-2645.	5.2	8
43	Matlab/Simulink-Based Simulation of Line-start PMSM Used in Pump Jacks. , 2007, , .		7
44	Demagnetization study of line-start permanent magnet synchronous motor under out-of-step and supersynchronous faults. , 2016, , .		7
45	The Method for Reducing Intrinsic Shaft Voltage by Suitable Selection of Pole-Arc Coefficient in Fractional-Slot Permanent-Magnet Synchronous Machines. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	7
46	On-line broken-bar fault diagnosis system of induction motor. Transactions of Tianjin University, 2008, 14, 144-147.	6.4	6
47	Modeling and Analysis on Flux Switching Motor Based on Time Stepping Finite Element. , 2010, , .		6
48	Optimization design of the sleeve for high speed permanent magnet machine. , 2016, , .		6
49	Performance Assessment and Comparative Study of a Permanent Magnet Machine With Axial Flux Regulator. IEEE Transactions on Energy Conversion, 2019, 34, 1522-1531.	5.2	6
50	Analysis of the Synchronization Process and the Synchronization Capability for a Novel 6/8-Pole Changing LSPMSM. IEEE Transactions on Magnetics, 2020, 56, 1-6.	2.1	6
51	Torque Ripple and Electromagnetic Vibration Suppression in Permanent Magnet Synchronous Motor Using Segmented Rotor With Different Pole Widths. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	6
52	The electromagnetic performance calculation and comparison of flux reversal machine with different winding topologies. , 2014, , .		5
53	A novel rotor structure design of single-phase flux switching motor. , 2014, , .		5
54	Analytical Performance Calculation of Vernier Hybrid Machine with Subdomain Method. Electric Power Components and Systems, 2018, 46, 1883-1895.	1.8	5

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55	Electromagnetic Performance Analysis of Hybrid Excited Segmental Rotor Flux Switching Machine. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	5
56	A Novel Dual-Rotor Permanent Magnet Synchronous Reluctance Machine with High Electromagnetic Performance. , 2019, , .		5
57	Study of Magnet Shifting for Reduction of Cogging Torque in Permanent Magnet Motors. , 0, , .		4
58	Optimization of the Different Pole Arc Combination to Reduce the Cogging Torque in PMDC Motors. , 0, , .		4
59	Performance analysis of a high power density tubular linear switch reluctance generator for direct drive marine wave energy conversion. , 2014, , .		4
60	Topology analysis and performance evaluation of a high thrust force density linear switched reluctance machine for low cost conveyor applications. , 2014, , .		4
61	Calculation of magnets' average operating point during the starting process of line-start permanent magnet synchronous motor. , 2014, , .		4
62	Investigation of flux regulation performance of an improved hybrid excitation brushless claw-pole alternator. , 2015, , .		4
63	The starting performance research on the novel single-phase induction motor. , 2016, , .		4
64	Investigation of a novel hybrid radial and axial magnetic circuit permanent magnet motor with flux weakening capability for EVs. , 2017, , .		4
65	Critical speed calculation and modal analysis of rotor for high-speed machine. , 2017, , .		4
66	Parameters determination and dynamic modelling of line-start permanent magnet synchronous motor with a composite solid rotor. IET Electric Power Applications, 2019, 13, 17-23.	1.8	4
67	Design and analysis of a novel hybrid-excited wound-rotor synchronous machine with high electromagnetic performance. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 745-753.	0.6	4
68	A semi-numerical method to assess start and synchronization performance of a line-start permanent magnet synchronous motor equipped with hybrid rotor. IET Electric Power Applications, 2021, 15, 487-500.	1.8	4
69	Analysis and Reduction of Electromagnetic Force Waves of Permanent Magnet Synchronous Motors Considering Rotor Eccentricity. Journal of Electrical Engineering and Technology, 2021, 16, 3047-3059.	2.0	4
70	Analysis and Research on No-Load Air Gap Magnetic Field and System Multiobjective Optimization of Interior PM Motor. IEEE Transactions on Industrial Electronics, 2022, 69, 10915-10925.	7.9	4
71	Optimization of Stator Slot Parameters for Electromagnetic Vibration Reduction of Permanent Magnet Synchronous Motors. IEEE Transactions on Transportation Electrification, 2022, 8, 4337-4347.	7.8	4
72	Steady-State Performance Analysis of Three-Phase Induction Motor with SEMIHEX Connection. , 2007, , .		3

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73	Suppression of sub-synchronous oscillation caused by HVDC using supplementary excitation damping controller. , 2014, , .		3
74	Analytical Prediction of Electromagnetic Performance of Vernier Machine with Rotor Eccentricity. Electric Power Components and Systems, 2016, 44, 1693-1706.	1.8	3
75	Analysis of cogging torque and flux weakening capability of a novel multi-stator hybrid excitation permanent magnet synchronous motor. , 2017, , .		3
76	Research on shaft voltage in permanent magnet synchronous machine with sectionalized stators. , 2017, , .		3
77	Analysis of Natural Frequency of the Stator of Interior Permanent Magnet Synchronous Motor. , 2019, , .		3
78	Comparative Analysis of Electromagnetic Force Inverter Fed PMSM Drive Using Field Oriented Control (FOC) and Direct Torque Control (DTC). , 2019, , .		3
79	Design Optimization of Linear Switched Reluctance Motor with Segmental Mover. , 2021, , .		3
80	Multiple-phase Excitation Control of Linear Switched Reluctance Motor with Segmented Secondary Driving System. , 2021, , .		3
81	Design of a 35kW Permanent Magnet Synchronous Motor for Electric Vehicle Equipped with Nonuniform Airgap Rotor. , 2020, , .		3
82	Design and Analysis of Low-Speed High-Torque Permanent Magnet Synchronous Machines for Industrial Agitators. , 2021, , .		3
83	Thermal and Stress Analysis for a High-speed Permanent Magnet Motor with Solid Rotor. , 2021, , .		3
84	Analysis of Permanent Magnet-assisted Synchronous Reluctance Motor Based on Equivalent Reluctance Network Model. CES Transactions on Electrical Machines and Systems, 2022, 6, 135-144.	3.5	3
85	Online monitoring system for motor vibration using fiber Bragg grating sensing technology. , 2011, , .		2
86	Research of the demagnetization mechanism of line-start permanent magnet synchronous motor under operating condition of sudden reversal. , 2014, , .		2
87	Force ripple reduction of a linear flux switching motor with segmented secondary. , 2017, , .		2
88	Time-variant PM flux linkages and magnetising inductances of a line-start PM synchronous motor with composite solid rotor. IET Electric Power Applications, 2019, 13, 1392-1401.	1.8	2
89	Calculation of Stator Natural Frequencies of Permanent Magnet Synchronous Motors Considering Complex Boundary Conditions. , 2021, , .		2
90	Magnetic Field Calculation of the Eccentric Surface-mounted Permanent Magnet Machine. , 2021, , .		2

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91	Design and Optimization of Hybrid Excitation Synchronous Machine Based on Multi-objective Genetic Algorithm. , 2020, , .		2
92	Application of PMSM Sensorless Control System on Lower Limb Rehabilitation Robot. , 2020, , .		2
93	Analysis of supply voltage sensitivity for the performance of the permanent magnet synchronous motors. , 2005, , .		1
94	Study on starting and braking characteristics of permanent magnet synchronous traction motor. , 2011, , .		1
95	Modeling and simulation of a novel high efficiency single-phase motor. , 2011, , .		1
96	Analysis and design of a novel single-phase permanent magnet synchronous motor with three-winding. , 2011, , .		1
97	Finite element analysis of transient behavior of permanent magnet synchronous motor. , 2011, , .		1
98	Design and research of 5 MW Permanent Magnet Synchronous Generators for wind turbines. , 2014, , .		1
99	The analysis of the influences of switching opportunity for a novel 6/8 pole changing line-start permanent magnet synchronous motor. , 2017, , .		1
100	Research on fast and accurate calculation method of cogging torque. , 2017, , .		1
101	Performance Analysis of Novel Single-Phase Parallel Hybrid-Excited Flux-Switching Machine. IEEE Transactions on Magnetics, 2018, 54, 1-13.	2.1	1
102	The Analysis and Calculation of Load Radial Electromagnetic Force of the Interior Permanent Magnet Synchronous Machine. , 2019, , .		1
103	Design and Analysis of a High-Performance Dual-Stator Spoke-Type Linear Machine Using Phase-Group Concentrated-Coil Windings. , 2019, , .		1
104	Design and analysis of a high-performance dual-rotor PM synchronous reluctance machine with toroidal windings. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 855-864.	0.6	1
105	Operating Principle and Cogging Normal Force Analysis of a Novel Double-Sided Permanent Magnet Linear Synchronous Motor. , 2021, , .		1
106	Study of Vernier permanent magnet machine with the dual rotor, toroidal winding and ferrite magnet on both sides of stator and rotor. IET Electric Power Applications, 2020, 14, 2675-2686.	1.8	1
107	Multi-physics Analysis of Surface Inset Permanent Magnet Motors with Different Slot-Pole Combinations. , 2020, , .		1
108	A New On-board Charging-Driving Integrated Topology for V2G Technology. World Electric Vehicle Journal, 2021, 12, 231.	3.0	1

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109	Investigation and Experimental Validation of Sideband Harmonic Vibration of IPMSM with and without Skewed Slots for EVs. World Electric Vehicle Journal, 2021, 12, 223.	3.0	1
110	Design and Optimization of a Novel Dual-Rotors Flux-Switching Permanent-Magnet Machine. , 2020, , .		1
111	Optimization of PM-Assisted Synchronous Reluctance Motor with Asymmetric Rotor. , 2020, , .		1
112	Design and Simulation of a Model Predictive Control System for a Novel Dual-Rotor Flux-Switching Permanent Magnet Motor. , 2021, , .		1
113	MATLAB-based time domain analysis of power network current deformation. , 2005, , .		0
114	A New Type Single-phase Induction Motor with Negative Sequence Compensatory Winding. , 2007, , .		0
115	Analysis and design of flux switching machine driver with APC control based on PIC18F2331. , 2011, , .		0
116	Simulation for operating conditions transition of asynchronous machine in blower driving system of chemical industry for flue gas recovery. , 2014, , .		0
117	The calculation of radial force wave weakened percentage for doubly salient motor based on improved magnetic field division method. , 2014, , .		0
118	Magnetic modeling of a linear motor using lumped approach. , 2014, , .		0
119	Performance analysis of a dual stator linear switch reluctance machine with rectangular segments considering force ripples for long stroke conveyor applications. , 2015, , .		0
120	Design and test for high speed permanent magnet wind generator and research on rotor protection measures. , 2016, , .		0
121	Research on Weakening Measures of Electromagnetic Force Waves of SPMSM. , 2018, , .		0
122	Performance Analysis on a Surface-mounted Permanent Magnet Synchronous Generator with Hybrid Excitation based on Equivalent Magnetic Circuit. , 2019, , .		0
123	Performance Comparison of Vernier Hybrid Machine with Different PM Distributions. , 2019, , .		0
124	Torsional vibration analysis of the surface-mounted permanent magnet synchronous machine using analytical model considering flux harmonics. IET Electric Power Applications, 2021, 15, 501-511.	1.8	0
125	Comparative Study for High-Speed Permanent Magnet Motors with Solid and Ring Type Rotors. , 2021, , .		0
126	Design and Analysis of a Novel Dual-Stator Tubular Linear Machine with Split Teeth Structure. , 2021, , .		0

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127	Design and analysis of a high-performance surface inset permanent magnet motor with asymmetrical rotor. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 211-220.	0.6	0
128	Optimization Analysis of Inherent Shaft Voltage in Line-Start Permanent Magnet Synchronous Motor. , 2020, , .		0