

Wenliang Zhao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Optimal Design of a Novel V-Type Interior Permanent Magnet Motor with Assisted Barriers for the Improvement of Torque Characteristics. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	97
2	Material-Efficient Permanent-Magnet Shape for Torque Pulsation Minimization in SPM Motors for Automotive Applications. IEEE Transactions on Industrial Electronics, 2014, 61, 5779-5787.	7.9	82
3	Comparative Study on Novel Dual Stator Radial Flux and Axial Flux Permanent Magnet Motors With Ferrite Magnets for Traction Application. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	79
4	Torque Pulsation Minimization in Spoke-type Interior Permanent Magnet Motors With Skewing and Sinusoidal Permanent Magnet Configurations. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	58
5	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
6	A Novel Dual-Rotor, Axial Field, Fault-Tolerant Flux-Switching Permanent Magnet Machine With High-Torque Performance. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	48
7	Performance Improvement of Ferrite-Assisted Synchronous Reluctance Machines Using Asymmetrical Rotor Configurations. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	43
8	Dual Airgap Stator- and Rotor-Permanent Magnet Machines With Spoke-Type Configurations Using Phase-Group Concentrated Coil Windings. IEEE Transactions on Industry Applications, 2017, 53, 3327-3335.	4.9	36
9	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
10	Performance Comparison of Dual Airgap and Single Airgap Spoke-Type Permanent-Magnet Vernier Machines. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	32
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	Design and optimisation of a novel asymmetric rotor structure for a PM-assisted synchronous reluctance machine. IET Electric Power Applications, 2019, 13, 573-580.	1.8	26
13	Optimal Design of a Novel Asymmetrical Rotor Structure to Obtain Torque and Efficiency Improvement in Surface Inset PM Motors. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	24
14	Optimal Design of Wound Field Synchronous Reluctance Machines to Improve Torque by Increasing the Saliency Ratio. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	24
15	A Novel Technique for Two-Phase BLDC Motor to Avoid Demagnetization. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	23
16	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
17	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
18	Flux-Switching Permanent Magnet Machine with Phase-Group Concentrated-Coil Windings and Cogging Torque Reduction Technique. Energies, 2018, 11, 2758.	3.1	18

#	ARTICLE	IF	CITATIONS
19	Reduction of Radial Electromagnetic Force Waves Based on PM Segmentation in SPMSMs. IEEE Transactions on Magnetics, 2020, 56, 1-7.	2.1	17
20	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
21	Cogging torque reduction based on segmented skewing magnetic poles with different combinations of pole-arc coefficients in surface-mounted permanent magnet synchronous motors. IET Electric Power Applications, 2021, 15, 200-213.	1.8	17
22	Design of Ultrahigh Speed Axial-Flux Permanent Magnet Machine With Sinusoidal Back EMF for Energy Storage Application. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	16
23	Dual-Stator Two-Phase Permanent Magnet Machines With Phase-Group Concentrated-Coil Windings for Torque Enhancement. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	16
24	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
25	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
26	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
27	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
28	Analysis and experiment of transformer vibration and noise considering electrical steel sheet magnetostriction. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 1477-1484.	0.6	11
29	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
30	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
31	Design and analysis of a novel dual stator axial flux spoke-type ferrite permanent magnet machine. , 2013, , .		8
32	Cost-effective permanent magnet shape for reducing cogging torque and torque ripple in surface-mounted permanent magnet machines. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 817-825.	0.6	7
33	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
34	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
35	Dual-stator, spoke-type ferrite permanent magnet motor with phase-group concentrated-coil windings using auxiliary inner stator. , 2016, , .		5
36	A Novel Dual-Rotor Permanent Magnet Synchronous Reluctance Machine with High Electromagnetic Performance. , 2019, , .		5

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37	Dual airgap stator- and rotor- permanent magnet machines with spoke-type configurations using phase-group concentrated-coil windings. , 2015, , .		4
38	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
39	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
40	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
41	Research on shaft voltage in permanent magnet synchronous machine with sectionalized stators. , 2017, , .		3
42	Design and Analysis of a High-Performance Outer Rotor Brushless DC Motor Using Loading Distribution Method for Range Hood Applications. , 2018, , .		3
43	Design and Analysis of Low-Speed High-Torque Permanent Magnet Synchronous Machines for Industrial Agitators. , 2021, , .		3
44	Optimal design of a spoke-type permanent magnet motor with phase-group concentrated-coil windings to minimize torque pulsations. , 2016, , .		2
45	Development and test of a dual-stator, spoke-type ferrite permanent magnet motor with high torque performance for direct-drive applications. , 2016, , .		2
46	Calculation of Stator Natural Frequencies of Permanent Magnet Synchronous Motors Considering Complex Boundary Conditions. , 2021, , .		2
47	Magnetic Field Calculation of the Eccentric Surface-mounted Permanent Magnet Machine. , 2021, , .		2
48	Design and Optimization of a Novel Dual-Stator Flux-Switching Permanent Magnet Machine. , 2020, , .		2
49	Design and Optimization of Hybrid Excitation Synchronous Machine Based on Multi-objective Genetic Algorithm. , 2020, , .		2
50	Development of flux switching PM machines with phase-group concentrated-coil windings for robot applications. , 2016, , .		1
51	Design of a novel energy-saving contactor using two-phase magnetic material. International Journal of Applied Electromagnetics and Mechanics, 2017, 56, 141-149.	0.6	1
52	The Analysis and Calculation of Load Radial Electromagnetic Force of the Interior Permanent Magnet Synchronous Machine. , 2019, , .		1
53	Design and Analysis of a High-Performance Dual-Stator Spoke-Type Linear Machine Using Phase-Group Concentrated-Coil Windings. , 2019, , .		1
54	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

#	ARTICLE	IF	CITATIONS
55	Operating Principle and Cogging Normal Force Analysis of a Novel Double-Sided Permanent Magnet Linear Synchronous Motor. , 2021, , .		1
56	Multi-physics Analysis of Surface Inset Permanent Magnet Motors with Different Slot-Pole Combinations. , 2020, , .		1
57	Design and Optimization of a Novel Dual-Rotors Flux-Switching Permanent-Magnet Machine. , 2020, , .		1
58	Optimization of PM-Assisted Synchronous Reluctance Motor with Asymmetric Rotor. , 2020, , .		1
59	Design and Simulation of a Model Predictive Control System for a Novel Dual-Rotor Flux-Switching Permanent Magnet Motor. , 2021, , .		1
60	Optimal design of a cost-effective SPM motor to suppress torque pulsations using multi-grade permanent magnets. , 2016, , .		0
61	Design and analysis of a novel PM-assisted synchronous reluctance machine with axially integrated magnets by finite element method. , 2016, , .		0
62	Research on Weakening Measures of Electromagnetic Force Waves of SPMSM. , 2018, , .		0
63	Performance Analysis on a Surface-mounted Permanent Magnet Synchronous Generator with Hybrid Excitation based on Equivalent Magnetic Circuit. , 2019, , .		0
64	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
65	Design and Analysis of a Novel Dual-Stator Tubular Linear Machine with Split Teeth Structure. , 2021, , .		0
66	Study on the Protection and Energy Transmission Modes of One Phase Short Circuit to Ground in Inverters. , 2019, , .		0
67	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
68	Analysis of a Novel Hybrid Excitation Synchronous Motor with Asymmetric Rotor. , 2020, , .		0
69	Optimal design of a surface-mounted permanent magnet motor with multi-grade ferrite magnets to reduce torque pulsations. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 79-89.	0.6	0
70	Optimization Analysis of Inherent Shaft Voltage in Line-Start Permanent Magnet Synchronous Motor. , 2020, , .		0
71	Performance Improvement of Spoke-Type Interior Permanent Magnet Motors with Asymmetric Rotor Structures. , 2021, , .		0