

Weiyu Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

809
citations

13
h-index

26
g-index

87
ext. papers

960
ext. citations

3.6
avg, IF

4.81
L-index

#	Paper	IF	Citations
73	Vibration Compensation Control of BPMSM with Dead-Time Effect Based on Adaptive Neural Network Band-Pass Filter. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1
72	Displacement Estimation of Six-Pole Hybrid Magnetic Bearing Using Modified Particle Swarm Optimization Support Vector Machine. <i>Energies</i> , 2022 , 15, 1610	3.1	2
71	Research of a Six-Pole Active Magnetic Bearing System Based on a Fuzzy Active Controller. <i>Electronics (Switzerland)</i> , 2022 , 11, 1723	2.6	1
70	Multi-objective Parameter Optimization Based Design of Six-pole Radial Hybrid Magnetic Bearing. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	1
69	Self-sensing Technology of Rotor Displacement for Six-pole Radial Active Magnetic Bearing Using Improved Quantum Particle Swarm Optimized Cubature Kalman Filter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	1
68	Principle and performance analysis for six-pole hybrid magnetic bearing with a secondary air gap. <i>Electronics Letters</i> , 2021 , 57, 548	1.1	1
67	Multiobjective Optimization Design of Permanent Magnet Assisted Bearingless Synchronous Reluctance Motor Using NSGA-II. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 10477-10487	8.9	11
66	Sensorless Control of Bearingless Permanent Magnet Synchronous Motor Based on LS-SVM Inverse System. <i>Electronics (Switzerland)</i> , 2021 , 10, 265	2.6	2
65	Design and Analysis of Two Permanent-Magnet-Assisted Bearingless Synchronous Reluctance Motors with Different Rotor Structure. <i>Energies</i> , 2021 , 14, 879	3.1	2
64	Dynamic Correction Model Considering Influence of Foundation Motions for a Centripetal Force Type-Magnetic Bearing. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 9811-9821	8.9	3
63	Multiobjective Optimization Design of Outer Rotor Coreless Bearingless Permanent Magnet Synchronous Motor. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 5489-5498	5.6	6
62	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 12482-12492	8.9	3
61	A Novel Vehicle-mounted Magnetic Suspension Flywheel Battery with a Virtual Inertia Spindle. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	4
60	Rotor Displacement Self-Sensing Modeling of Six-Pole Radial Hybrid Magnetic Bearing Using Improved Particle Swarm Optimization Support Vector Machine. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12296-12306	7.2	15
59	Active Disturbance Rejection Decoupling Control for Three-Degree-of-Freedom Six-Pole Active Magnetic Bearing Based on BP Neural Network. <i>IEEE Transactions on Applied Superconductivity</i> , 2020 , 30, 1-5	1.8	7
58	Principle and Performance Analysis for Heterpolar Permanent Magnet Biased Radial Hybrid Magnetic Bearing. <i>IEEE Transactions on Applied Superconductivity</i> , 2020 , 30, 1-4	1.8	1
57	Suspension Force Error Source Analysis and Multidimensional Dynamic Model for a Centripetal Force Type-Magnetic Bearing. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 7617-7628	8.9	11

56	Active disturbance rejection control of 5-degree-of-freedom bearingless permanent magnet synchronous motor based on fuzzy neural network inverse system. <i>ISA Transactions</i> , 2020 , 101, 295-308	5.5	14
55	Decoupling control based on linear/non-linear active disturbance rejection switching for three-degree-of-freedom six-pole active magnetic bearing. <i>IET Electric Power Applications</i> , 2020 , 14, 1818-1827	1.8	3
54	Parameter Design of Six-Pole Hybrid Magnetic Bearing Considering Variable Stiffness. <i>IEEE Transactions on Applied Superconductivity</i> , 2020 , 30, 1-5	1.8	1
53	Rotor radial displacement sensorless control of bearingless permanent magnet synchronous motor based on MRAS and suspension force compensation. <i>ISA Transactions</i> , 2020 , 103, 306-318	5.5	7
52	Backstepping control of three-pole radial hybrid magnetic bearing. <i>IET Electric Power Applications</i> , 2020 , 14, 1405-1411	1.8	4
51	Improved Centripetal Force Type-Magnetic Bearing with Superior Stiffness and Anti-interference Characteristics for Flywheel Battery System. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020 , 7, 713-726	3.8	3
50	Rotor Displacement Self-Sensing Method for Six-Pole Radial Hybrid Magnetic Bearing Using Mixed-Kernel Fuzzy Support Vector Machine. <i>IEEE Transactions on Applied Superconductivity</i> , 2020 , 30, 1-4	1.8	5
49	Modeling Based on Exact Segmentation of Magnetic Field for a Centripetal Force Type-Magnetic Bearing. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 1-1	8.9	11
48	Torque Ripple Minimization for Bearingless Synchronous Reluctance Motor. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	18
47	Soft Sensing Modeling of Magnetic Suspension Rotor Displacements Based on Continuous Hidden Markov Model. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	9
46	Optimization Design of Bearingless Synchronous Reluctance Motor. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	15
45	Direct Control of Bearingless Permanent Magnet Slice Motor Based on Stator Flux Observer 2018 ,		2
44	Speed Control of Bearingless Permanent Magnet Synchronous Motor Based on Flux Strengthening and Voltage Regulation. <i>IEEE Access</i> , 2018 , 6, 72392-72401	3.5	7
43	Design and analysis of a centripetal force type-magnetic bearing for a flywheel battery system. <i>Review of Scientific Instruments</i> , 2018 , 89, 064708	1.7	5
42	Compensation control of suspension force for LS-BLPMMSM. <i>IET Electric Power Applications</i> , 2017 , 11, 622-630	1.8	13
41	Decoupling analysis of a novel bearingless flux-switching permanent magnet motor. <i>AIP Advances</i> , 2017 , 7, 056673	1.5	1
40	Modeling and Decoupling Control for Rotor System in Magnetic Levitation Wind Turbine. <i>IEEE Access</i> , 2017 , 5, 15516-15528	3.5	10
39	Radial position control of a magnetically suspended rotor system in a direct-driven spindle using inverse system scheme. <i>Transactions of the Institute of Measurement and Control</i> , 2016 , 38, 1073-1086	1.8	6

38	Nonlinear Model Analysis and Switching Model of ACDC Three-Degree-of-Freedom Hybrid Magnetic Bearing. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 1102-1115	5.5	29
37	Nonlinear flux linkage modeling of a bearingless permanent magnet synchronous motor based on AW-LSSVM regression algorithm. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2016 , 51, 151-159	0.4	29
36	Optimization Design of Bearingless Permanent-Magnet Slice Motor. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-4	1.8	6
35	Design and Optimization of Bearingless Permanent Magnetic Synchronous Motors. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 1-1	1.8	2
34	High-Performance Control for a Bearingless Permanent-Magnet Synchronous Motor Using Neural Network Inverse Scheme Plus Internal Model Controllers. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 3479-3488	8.9	167
33	Design of Bearingless Flux-Switching Permanent-Magnet Motor. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	22
32	State Estimation of Permanent Magnet Synchronous Motor Using Improved Square Root UKF. <i>Energies</i> , 2016 , 9, 489	3.1	8
31	Modeling for Three-Pole Radial Hybrid Magnetic Bearing Considering Edge Effect. <i>Energies</i> , 2016 , 9, 3453	3.1	9
30	A Novel Single Winding Structure and Closed Loop Control of the Suspension Force Vector of Bearingless Permanent Magnet Synchronous Motors. <i>Energies</i> , 2016 , 9, 377	3.1	0
29	Analytical Model of a Dual Rotor Radial Flux Wind Generator Using Ferrite Magnets. <i>Energies</i> , 2016 , 9, 672	3.1	2
28	Research on Operation Principle and Control of Novel Hybrid Excitation Bearingless Permanent Magnet Generator. <i>Energies</i> , 2016 , 9, 673	3.1	3
27	Radial Force-Current Characteristics Analysis of Three-Pole Radial-Axial Hybrid Magnetic Bearings and Their Structure Improvement. <i>Energies</i> , 2016 , 9, 706	3.1	4
26	Basic Characteristics and Design of a Novel Hybrid Magnetic Bearing for Wind Turbines. <i>Energies</i> , 2016 , 9, 905	3.1	3
25	Radial Force-Current Characteristic Analysis of Three-Pole Radial-Axial HMB 2016 ,		6
24	Suspension force control of bearingless permanent magnet slice motor based on flux linkage identification. <i>ISA Transactions</i> , 2015 , 57, 322-8	5.5	5
23	Control System Design for a Five-Degree-of-Freedom Electrospindle Supported With AC Hybrid Magnetic Bearings. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 2525-2537	5.5	24
22	Rotor Mass Eccentricity Vibration Compensation Control in Bearingless Induction Motor. <i>Advances in Mechanical Engineering</i> , 2015 , 7, 168428	1.2	9
21	Magnetic Field Equivalent Current Analysis-Based Radial Force Control for Bearingless Permanent Magnet Synchronous Motors. <i>Energies</i> , 2015 , 8, 4920-4942	3.1	7

20	Bearingless motor's radial suspension force control based on virtual winding current analysis 2014,		1
19	Analysis of inductance characteristics for a bearingless permanent magnet synchronous motor. <i>Electrical Engineering</i> , 2013 , 95, 277-286	1.5	9
18	Speed-Sensorless Vector Control of a Bearingless Induction Motor With Artificial Neural Network Inverse Speed Observer. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 1357-1366	5.5	190
17	Precision Modeling Method Specifically for AC Magnetic Bearings. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 5543-5553	2	15
16	Improved Model and Experiment for AC-DC Three-Degree-of-Freedom Hybrid Magnetic Bearing. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 5554-5565	2	14
15	Direct suspension force control of bearingless permanent magnet synchronous motor 2012,		2
14	Direct control of rotor eccentric displacement for bearingless Permanent Magnet-type slice motor 2012,		1
13	Decoupling control of AC Hybrid Magnetic Bearing based on active disturbance rejection 2011,		2
12	State feedback decoupling control of AC 5 degrees of freedom hybrid magnetic bearings 2011,		1
11	Decoupling control of bearingless synchronous reluctance motor based on inverse system method 2010,		4
10	Decoupling control of AC-DC-3DOF-HMB based on inverse system method 2010,		2
9	Mathematical model and control technology of bearingless PMSM 2010,		1
8	Direct torque and direct suspension force control of bearingless permanent magnet synchronous motor 2010,		3
7	Fiber optic gyro signal random drift testing and noise error analysis 2010,		1
6	Structure and performance analysis for AC-DC three degrees of freedom active magnetic bearings 2009,		5
5	Bearingless motor's radial suspension force control based on flux equivalent with virtual winding current analysis method. <i>Science Bulletin</i> , 2009 , 54, 1590-1598	10.6	1
4	Modeling of bearingless permanent magnet synchronous motor based on mechanical to electrical coordinates transformation. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 3736-3744		8
3	Sliding mode variable structure control for radial suspension forces of bearingless permanent magnet synchronous motor based on inverse system method 2009,		1

2	Rotor Suspension Principle and Decoupling Control for Self-bearing Induction Motors 2006,	1
1	Design and simulation of control system for bearingless synchronous reluctance motor 2005,	3