

Jinghua Ji

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.

91
papers

1,114
citations

18
h-index

29
g-index

109
ext. papers

1,483
ext. citations

4.6
avg, IF

4.91
L-index

#	Paper	IF	Citations
91	Vibration Reduction Design of Consequent Pole PM Machine by Symmetrizing Local and Global Magnetic Field. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
90	A New Partitioned Stator Hybrid Excitation Machine with Internal Magnetic Ring. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	
89	Modulated Vibration Reduction Design for Integral-Slot Interior Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
88	Design and Analysis of a High Torque Density Hybrid Permanent Magnet Excited Vernier Machine. <i>Energies</i> , 2022 , 15, 1723	3.1	
87	Self-Adapted Model Predictive Current Control for Five-Phase Open-End Winding PMSM With Reduced Switching Loss. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	3
86	Direct Torque Control for Dual Three-Phase Permanent Magnet Motor With Improved Torque and Flux. <i>IEEE Transactions on Energy Conversion</i> , 2022 , 1-1	5.4	1
85	Improved Model Predictive Current Control for Linear Vernier Permanent-Magnet Motor With Efficient Voltage Vectors Selection. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
84	Duty Ratio Based Direct Torque Control With Enhanced Harmonic Current Suppression for Dual-Three-Phase Permanent Magnet Motor. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	2
83	Remedial Direct Torque Control for Dual Three-Phase Permanent-Magnet Motor With Harmonic Torque Suppression. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	
82	Simplified Three-Vector-Based Model Predictive Direct Power Control for Dual Three-Phase PMSG. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	4
81	Meshless Generalized Finite Difference Method to Analyze Electromagnetic Performance of SPM Machines With Eccentric Rotor Shape. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	
80	Position Estimation Error Compensation for Sensorless Control of SPMSM Based on Space Vector Signal Injection. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	
79	A Generalized Mesh-Based Thermal Network Model for SPM Machines Combining Coupled Winding Solution. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 116-127	8.9	8
78	Design and Manufacture of a Linear Actuator Based on Magnetic Screw Transmission. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 1095-1107	8.9	5
77	Parametric Equivalent Magnetic Network Modeling Approach for Multiobjective Optimization of PM Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 6619-6629	8.9	8
76	Torque Calculation of Stator Modular PMa-SynRM With Asymmetric Design for Electric Vehicles. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 202-213	7.6	7
75	Vibration Investigation of Spoke-Type PM Machine With Asymmetric Rotor Considering Modulation Effect of Stator Teeth. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 9092-9103	8.9	5

74	Design and Optimization of a Fault Tolerant Modular Permanent Magnet Assisted Synchronous Reluctance Motor With Torque Ripple Minimization. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8519-8530	8.9	6
73	A Novel Parallel Hybrid Excitation Field Modulated Machine With Efficient Utilization of Multiworking Harmonics. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	4
72	Analysis and Reduction of Electromagnetic Vibration in Fractional-Slot Concentrated-Windings PM Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
71	Quantitative Analysis on Maximum Efficiency Point and Specific High-Efficiency Region of Permanent-Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
70	Comparative study of partitioned stator flux-modulation motors with different permanent magnet arrays. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2021 , 1-19	0.4	1
69	Effects of Eccentric Magnet on High-Frequency Vibroacoustic Performance in Integral-Slot SPM Machines. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 2393-2403	5.4	1
68	Investigation of Bread-Loaf Magnet on Vibration Performance in FSCW PMSM Considering Force Modulation Effect. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 1379-1389	7.6	7
67	Phase Shift Technique to Improve Torque of Synchronous Reluctance Machines With Dual M-Phase Windings. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	4
66	Effect of Phase Shift on Inductance and Short-Circuit Current in Dual Three-Phase 48-Slot/22-Pole Permanent-Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
65	A Novel Dual-Permanent-Magnet-Excited Machine With Non-Uniformly Distributed Permanent-Magnets and Flux Modulation Poles on the Stator. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 7104-7115	6.8	16
64	Simplified Three-Vector-Based Model Predictive Thrust Force Control With Cascaded Optimization Process for a Double-Side Linear Vernier Permanent Magnet Motor. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 10681-10689	7.2	12
63	Design and development of a magnetic lead screw propulsion device for general transport system. <i>IET Electric Power Applications</i> , 2020 , 14, 492-499	1.8	0
62	Torque Improvement in Dual M-Phase Permanent-Magnet Machines by Phase Shift for Electric Ship Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 9601-9612	6.8	10
61	Design and analysis of a new partitioned stator flux-modulation motor for direct drive applications. <i>IET Electric Power Applications</i> , 2020 , 14, 184-191	1.8	1
60	Mechanism Investigation of Ring Type Winding in Linear Permanent Magnet Vernier Machine for Improving Force Density. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 2588-2597	6.8	0
59	Sleeve design of permanent-magnet machine for low rotor losses. <i>Chinese Journal of Electrical Engineering</i> , 2020 , 6, 86-96	4	15
58	Analysis of PM Eddy Current Loss in Four-Phase Fault-Tolerant Flux-Switching Permanent-Magnet Machines by Air-Gap Magnetic Field Modulation Theory. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5369-5378	8.9	12
57	Design of a New Fault-Tolerant Linear Permanent-Magnet Vernier Machine. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2020 , 1, 172-181	2.6	4

56	Multiobjective Optimization of a Double-Side Linear Vernier PM Motor Using Response Surface Method and Differential Evolution. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 80-90	8.9	50
55	Sensorless Control of Linear Vernier Permanent-Magnet Motor Based on Improved Mover Flux Observer. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3869-3877	7.2	7
54	Influence of Armature Windings Pole Numbers on Performances of Linear Permanent-Magnet Vernier Machines. <i>IEEE Transactions on Transportation Electrification</i> , 2019 , 5, 385-394	7.6	4
53	Improvement of Power Factor in a Double-Side Linear Flux-Modulation Permanent-Magnet Motor for Long Stroke Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 3391-3400	8.9	14
52	A Generalized Equivalent Magnetic Network Modeling Method for Vehicular Dual-Permanent-Magnet Vernier Machines. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 1950-1962	5.4	26
51	Influence of magnet shape on the cogging torque of a surface-mounted permanent magnet motor. <i>Chinese Journal of Electrical Engineering</i> , 2019 , 5, 40-50	4	23
50	Robustness Improvement of Two-Vector-Based Model Predictive Current Control for Permanent Magnet Synchronous Motor 2019 ,		2
49	Investigation of SlotPole Combination of Dual-Permanent-Magnet-Excited Vernier Machines by Using Air-Gap Field Modulation Theory. <i>IEEE Transactions on Transportation Electrification</i> , 2019 , 5, 1360-1369	7.6	11
48	Modified Flux Linkage Observer for Sensorless Direct Thrust Force Control of Linear Vernier Permanent Magnet Motor. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 7800-7811	7.2	16
47	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 9113-9123	8.9	18
46	Star and Delta Hybrid Connection of a FSCW PM Machine for Low Space Harmonics. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 9266-9279	8.9	35
45	Design and Analysis of Dual-Stator PM Vernier Linear Machine With PMs Surface-Mounted on the Mover. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	5
44	Design to Reduce Rotor Losses in Fault-Tolerant Permanent-Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8476-8487	8.9	22
43	Design Optimization and Test of a Radially Magnetized Magnetic Screw With Discretized PMs. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7536-7547	8.9	20
42	Permanent Magnet Shape Using Analytical Feedback Function for Torque Improvement. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 4619-4630	8.9	13
41	Improvement of Reluctance Torque in Fault-Tolerant Permanent-Magnet Machines With Fractional-Slot Concentrated-Windings. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	9
40	Sensorless Control of a Linear Permanent-Magnet Motor Based on an Improved Disturbance Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 9291-9300	8.9	36
39	Low-noise design of fault-tolerant flux-switching permanent-magnet machines. <i>IET Electric Power Applications</i> , 2018 , 12, 747-756	1.8	2

38	Eddy current loss analysis of open-slot fault-tolerant permanent-magnet machines based on conformal mapping method. <i>AIP Advances</i> , 2017 , 7, 056646	1.5	1
37	Design and analysis of a field modulated magnetic screw for artificial heart. <i>AIP Advances</i> , 2017 , 7, 0567175	1.7	4
36	Remedial phase-angle control of a five-phase fault-tolerant permanent-magnet vernier machine with short-circuit fault. <i>CES Transactions on Electrical Machines and Systems</i> , 2017 , 1, 83-88	2.3	9
35	Effect of circumferential segmentation of permanent magnets on rotor loss in fractional-slot concentrated-winding machines. <i>IET Electric Power Applications</i> , 2017 , 11, 1151-1159	1.8	16
34	Vibration prediction in fault-tolerant flux-switching permanent-magnet machine under healthy and faulty conditions. <i>IET Electric Power Applications</i> , 2017 , 11, 19-28	1.8	7
33	Design and analysis of a novel modular six-phase linear permanent-magnet vernier machine 2017 ,		2
32	Analysis of Half Halbach Array Configurations in Linear Permanent-Magnet Vernier Machine. <i>Journal of Magnetism</i> , 2017 , 22, 414-422	1.9	3
31	New direct torque control of five-phase fault-tolerant flux-switching permanent-magnet motor drives 2016 ,		2
30	Comparison of coaxial magnetic gears with parallel and series magnetic circuits 2016 ,		2
29	Design and Analysis of New Vernier Permanent-Magnet Machine With Improved Torque Capability. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	26
28	High-Performance Fault Tolerant Halbach Permanent Magnet Vernier Machines for Safety-Critical Applications. <i>IEEE Transactions on Magnetism</i> , 2016 , 52, 1-4	2	18
27	Analysis and Control of Double-Stator Tubular Permanent-Magnet Motor With Series Magnetic Circuit. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	1
26	A Novel Flux Focusing Magnetically Geared Machine with Reduced Eddy Current Loss. <i>Energies</i> , 2016 , 9, 904	3.1	2
25	HYBRID EXCITED VERNIER MACHINES WITH ALL EXCITATION SOURCES ON THE STATOR FOR ELECTRIC VEHICLES. <i>Progress in Electromagnetics Research M</i> , 2016 , 46, 113-123	0.6	6
24	Electromagnetic Performance of Double-Stator Flux-Modulation Permanent-Magnet Motor. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	3
23	Quantitative Comparison of Integral and Fractional Slot Permanent Magnet Vernier Motors. <i>IEEE Transactions on Energy Conversion</i> , 2015 , 30, 1483-1495	5.4	46
22	A Novel Linear Permanent-Magnet Vernier Machine With Improved Force Performance. <i>IEEE Transactions on Magnetism</i> , 2015 , 51, 1-10	2	6
21	Design and Analysis of a New Linear Wound-Field Flux Reversal Machine Based on Magnetic Gear Effect. <i>IEEE Transactions on Magnetism</i> , 2015 , 51, 1-4	2	10

20	Design and Analysis of a Halbach Magnetized Magnetic Screw for Artificial Heart. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	30
19	Design and Analysis of Coaxial Magnetic Gears Considering Rotor Losses. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	5
18	Thermal prediction of a fault tolerant permanent magnet vernier machine 2015 ,		1
17	Analysis of New Modular Linear Flux Reversal Permanent Magnet Motors. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	12
16	A Novel Double-Stator Tubular Vernier Permanent-Magnet Motor With High Thrust Density and Low Cogging Force. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-7	2	2
15	Design and Analysis of a New Modular Linear Flux-Reversal Permanent-Magnet Motor. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	21
14	Design and Analysis of a New Fault-Tolerant Magnetic-Geared Permanent-Magnet Motor. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	2
13	New High Force Density Tubular Permanent-Magnet Motor. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	13
12	Design and analysis of linear fault-tolerant permanent-magnet vernier machines. <i>Scientific World Journal, The</i> , 2014 , 2014, 483080	2.2	3
11	Design and Analysis of a New Linear Hybrid Excited Flux Reversal Motor With Inset Permanent Magnets. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	31
10	Minimization of Cogging Force in a Novel Linear Permanent-Magnet Motor for Artificial Hearts. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3901-3904	2	40
9	Remedial Injected-Harmonic-Current Operation of Redundant Flux-Switching Permanent-Magnet Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 151-159	8.9	95
8	Optimal design and remedial control of fault-tolerant permanent magnet motors. <i>International Journal of Vehicle Autonomous Systems</i> , 2013 , 11, 126	0.4	1
7	Design and Analysis of a New Fault-Tolerant Linear Permanent-Magnet Motor for Maglev Transportation Applications. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 5200204-5200204 ^{1.8}		20
6	High reliability linear drive device for artificial hearts. <i>Journal of Applied Physics</i> , 2012 , 111, 07E729	2.5	10
5	A new tubular fault-tolerant permanent-magnet motor for active vehicle suspension 2012 ,		5
4	Design and Analysis of a New Fault-Tolerant Permanent-Magnet Vernier Machine for Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4176-4179	2	84
3	Stator-Flux-Oriented Fault-Tolerant Control of Flux-Switching Permanent-Magnet Motors. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4191-4194	2	46

2	A new modular flux-switching permanent-magnet machine using fault-tolerant teeth 2010 ,	2
1	Remedial Brushless AC Operation of Fault-Tolerant Doubly Salient Permanent-Magnet Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 2134-2141	8,9 62