

# Jikai Si

## 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.

63

papers

382

citations

11

h-index

18

g-index

72

ext. papers

566

ext. citations

3.4

avg, IF

4.08

L-index

#	Paper	IF	Citations
63	Modeling Large-Size Round Steel Plates With Surface PEEC Method for Lightning Transient Analysis. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2022</b> , 1-11	2	
62	Detent Force Minimization of Double-Sided Permanent Magnet Linear Synchronous Machine with 120°Phase Belt Toroidal Windings by Slot-Shift Structure. <i>Energies</i> , <b>2022</b> , 15, 943	3.1	
61	Flexible Behavioral Decision-Making of Mobile Robot in Dynamic Environment. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , <b>2022</b> , 1-1	3	
60	Comparative Study of Dual-Rotor Slotless Axial-Flux Permanent Magnet Machines with Equidirectional Toroidal and Conventional Concentrated Windings. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	0
59	Comparative Analysis of Tubular Permanent Magnet Linear Generator with Equidirectional Toroidal Windings and Conventional Toroidal Windings. <i>IEEE Transactions on Industry Applications</i> , <b>2022</b> , 1-1	4.3	1
58	Distributed Event-triggered Secondary Control for Average Bus Voltage Regulation and Proportional Load Sharing of DC Microgrid. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2022</b> , 10, 678-688	4	0
57	Distributed Event-triggered Hierarchical Control of PV Inverters to Provide Multi-time Scale Frequency Response for AC Microgrid. <i>IEEE Transactions on Power Systems</i> , <b>2022</b> , 1-1	7	1
56	A Novel Method for Diagnosing Demagnetization-Fault in PMSM Using Toroidal-Yoke-Type Search Coil. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	3
55	An Axial-Flux Dual-Rotor Slotless Permanent Magnet Motor with Novel Equidirectional Toroidal Winding. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 1-1	5.4	0
54	Analysis of a direct-drive permanent magnet synchronous generator with novel toroidal winding. <i>IET Renewable Power Generation</i> , <b>2021</b> , 15, 2237-2245	2.9	0
53	Feasibility analysis and optimization design of PMSM with 120°phase belts toroidal windings for electric vehicles. <i>IET Electric Power Applications</i> , <b>2021</b> , 15, 1161-1173	1.8	
52	Multi-Objective Optimization Design and Analysis on 2DoF Direct Drive Induction Motor Rotary Part. <i>IEEE Transactions on Electrical and Electronic Engineering</i> , <b>2021</b> , 16, 1279-1285	1	
51	Adaptive Power Point Tracking Control of PV System for Primary Frequency Regulation of AC Microgrid With High PV Integration. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 36, 3129-3141	7	5
50	. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 671-681	5.4	2
49	. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 874-882	5.4	1
48	A Position Sensorless Torque Control Strategy for Switched Reluctance Machines With Fewer Current Sensors. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 26, 1118-1128	5.5	13
47	Research on Inter-turn Short Circuit Fault Indicators for Direct-drive Permanent Magnet Synchronous Motor. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	1

46	Multi-objective design optimization of a Tubular Permanent Magnet Linear Generator with 120° Phase Belt Toroidal Windings. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	2
45	Virtual Synchronous Generator and SMC Based Cascaded Control for Voltage-Source Grid-Supporting Inverters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	5
44	Analysis and Suppression Techniques of Helical Motion Coupling Effect for the 2DoF Direct Drive Induction Machine. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
43	Influence Analysis of Structural Parameters on the Performance of 120°Phase Belts Toroidal Winding Solid Rotor Induction Motor. <i>Energies</i> , <b>2020</b> , 13, 5387	3.1	2
42	Online Calibration of Sensorless Position Estimation for Switched Reluctance Motors With Parametric Uncertainties. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 12307-12320	7.2	18
41	Novel modelling method based on winding sub-element of direct-drive permanent magnet synchronous motor. <i>IET Electric Power Applications</i> , <b>2020</b> , 14, 1078-1088	1.8	2
40	Design and characteristic analysis of a six-phase direct-drive permanent magnet synchronous motor with 60°phase-belt toroidal winding configuration for electric vehicle. <i>IET Electric Power Applications</i> , <b>2020</b> , 14, 2659-2666	1.8	5
39	Comparison of the Electromagnetic Characteristics of a Novel Gramme Winding and a Concentrated Winding Tubular Permanent-Magnet Linear Generator. <i>Energies</i> , <b>2020</b> , 13, 5943	3.1	2
38	Optimal Scheduling Strategy of Building Integrated Photovoltaic Microgrid Considering Virtual Energy Storage. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6176	2.6	3
37	Fault coil location of inter-turn short-circuit for direct-drive permanent magnet synchronous motor using knowledge graph. <i>IET Electric Power Applications</i> , <b>2020</b> , 14, 1712-1721	1.8	5
36	Characteristics Analysis of the Motions of the Two-Degree-of-Freedom Direct Drive Induction Motor. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 931-941	8.9	5
35	Analysis of Stator Slots and Rotor Pole Pairs Combinations of Rotor-Permanent Magnet Flux-Switching Machines. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 906-918	8.9	11
34	Distributed Event-Triggered Secondary Control for Economic Dispatch and Frequency Restoration Control of Droop-Controlled AC Microgrids. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 1938-1950	8.2	4 <sup>1</sup>
33	Method for Determining Starting Point of Rolling Bearing Life Prediction Based on Linear Regression. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 923	2.6	3
32	Mode Recognition and Fault Positioning of Permanent Magnet Demagnetization for PMSM. <i>Energies</i> , <b>2019</b> , 12, 1644	3.1	8
31	Equivalent Circuit Parameter Calculations and Characteristics Analysis of 2-DoF Direct Drive Induction Motor with a Slotted Solid Rotor. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2191	2.6	1
30	Rotor Eddy Current Loss Calculation of a 2DoF Direct-Drive Induction Motor. <i>Energies</i> , <b>2019</b> , 12, 1134	3.1	4
29	Helical Motion Analysis of the 2-Degree-of-Freedom Split-Stator Induction Motor. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-5	2	2

28	Improved Fuzzy-Based Taguchi Method for Multi-Objective Optimization of Direct-Drive Permanent Magnet Synchronous Motors. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-4	2	19
27	Overview of 2-Degree-of-Freedom Rotary-Linear Motors Focusing on Coupling Effect. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-11	2	12
26	Distributed Economic Power Dispatch and Bus Voltage Control for Droop-Controlled DC Microgrids. <i>Energies</i> , <b>2019</b> , 12, 1400	3.1	8
25	Cascaded Multiport Converter for SRM-Based Hybrid Electrical Vehicle Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 11940-11951	7.2	21
24	Equivalent Circuit Model of Novel Solid Rotor Induction Motor with Toroidal Winding Applying Composite Multilayer Theory. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3288	2.6	1
23	Dynamic magnetic-coupling effect of two-degrees-of-freedom direct drive induction motor. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , <b>2019</b> , 14, 1872-1878	1	
22	A Novel Analytical Method of Inductance Identification for Direct Drive PMSM with a Stator Winding Fault Considering Spatial Position of the Shorted Turns. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3599	2.6	1
21	A Physical Faulty Model Based on Coil Sub-Element for Direct-Drive Permanent Magnet Synchronous Motor With Stator Winding Short-Circuit Faults. <i>IEEE Access</i> , <b>2019</b> , 7, 151307-151319	3.5	4
20	A Novel Direct-Drive Permanent Magnet Synchronous Motor with Toroidal Windings. <i>Energies</i> , <b>2019</b> , 12, 432	3.1	7
19	Research on Fault Characteristics of Direct-drive Permanent Synchronous Motor with Stator Winding Inter-turn Short Circuit Fault <b>2019</b> ,		2
18	Research on power-angle characteristics of permanent magnet linear synchronous motor. <i>IET Electric Power Applications</i> , <b>2019</b> , 13, 1177-1183	1.8	0
17	Cogging Torque Minimization in Novel Direct-Drive PMSM with Toroidal Windings <b>2019</b> ,		1
16	Investigation on the multi-DoF 3-D model and levitation behaviour of radial-type superconducting magnetic bearing. <i>IET Electric Power Applications</i> , <b>2019</b> , 13, 1849-1856	1.8	1
15	Analysis of a Six-Phase Direct-Drive Permanent Magnet Synchronous Motor with Novel Toroidal Windings <b>2019</b> ,		5
14	Research on Virtual Inductive Control Strategy for Direct Current Microgrid with Constant Power Loads. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4449	2.6	2
13	Effect of Slot Opening Width on the Air-Gap Magnetic Field of a Direct Drive Permanent Magnet Motor. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4649	2.6	2
12	Multi-objective optimization of surface-mounted and interior permanent magnet synchronous motor based on Taguchi method and response surface method. <i>Chinese Journal of Electrical Engineering</i> , <b>2018</b> , 4, 67-73	4	16
11	Analysis of magnetic-coupling effect on the performances of 2DoF direct-drive induction motors. <i>IET Electric Power Applications</i> , <b>2018</b> , 12, 946-952	1.8	0

10	Modular Multi-Port Ultra-High Power Level Power Converter Integrated with Energy Storage for High Voltage Direct Current (HVDC) Transmission. <i>Energies</i> , <b>2018</b> , 11, 2711	3.1	3
9	Mover design and characteristics analysis of 2DoFDDIM. <i>IET Electric Power Applications</i> , <b>2018</b> , 12, 373-378	1.8	1
8	Static coupling effect of a two-degree-of-freedom direct drive induction motor. <i>IET Electric Power Applications</i> , <b>2017</b> , 11, 532-539	1.8	9
7	Performance analysis of the 2DoF direct drive induction motor applying composite multilayer method. <i>IET Electric Power Applications</i> , <b>2017</b> , 11, 524-531	1.8	7
6	Mathematical Model of Two-Degree-of-Freedom Direct Drive Induction Motor Considering Coupling Effect. <i>Journal of Electrical Engineering and Technology</i> , <b>2017</b> , 12, 1227-1234	1.4	5
5	Modeling and Simulation for a Quadrotor Vehicle with Adaptive Wing. <i>Proceedings of International Conference on Artificial Life and Robotics</i> , <b>2017</b> , 22, 384-387	0	
4	Fault diagnosis scheme for open-circuit faults in switched reluctance motor drives using fast Fourier transform algorithm with bus current detection. <i>IET Power Electronics</i> , <b>2016</b> , 9, 20-30	2.2	49
3	OCTSF for torque ripple minimisation in SRMs. <i>IET Power Electronics</i> , <b>2016</b> , 9, 2741-2750	2.2	21
2	. <i>IEEE Transactions on Energy Conversion</i> , <b>2015</b> , 30, 1200-1208	5.4	25
1	Design and analysis of tubular permanent magnet linear wave generator. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 258109	2.2	11