

Zaixin Song

List of Publications by Citations

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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.

42 papers	269 citations	9 h-index	13 g-index
50 ext. papers	423 ext. citations	5.2 avg, IF	4.26 L-index

#	Paper	IF	Citations
42	A Critical Review of Advanced Electric Machines and Control Strategies for Electric Vehicles. <i>Proceedings of the IEEE</i> , 2021 , 109, 1004-1028	14.3	40
41	Investigation on Magnetic Force of a Flux-Modulated Double-Rotor Permanent Magnet Synchronous Machine for Hybrid Electric Vehicle. <i>IEEE Transactions on Transportation Electrification</i> , 2019 , 5, 1383-1394	7.6	19
40	A Consequent-Pole PM Magnetic-Geared Double-Rotor Machine With Flux-Weakening Ability for Hybrid Electric Vehicle Application. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-7	2	18
39	Field Prediction and Validation of a Slotless Segmented-Halbach Permanent Magnet Synchronous Machine for More Electric Aircraft. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 1577-1591	7.6	17
38	Analysis of Vibrations in Interior Permanent Magnet Synchronous Motors Considering Air-Gap Deformation. <i>Energies</i> , 2017 , 10, 1259	3.1	17
37	Suppression of Dual Harmonic Components for Five-Phase Series-Winding PMSM. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	11
36	Analytical Modeling and Comparison of Two Consequent-Pole Magnetic-Geared Machines for Hybrid Electric Vehicles. <i>Energies</i> , 2019 , 12, 1888	3.1	10
35	Candidate Modulation Patterns Solution for Five-Phase PMSM Drive System. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	10
34	. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	9
33	Active Harmonic Suppression of Low-Reactance Multi-phase Slotless Permanent Magnet Synchronous Machines. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	9
32	Quantitative Comparison of Distinct Dual-Stator Permanent Magnet Vernier Machines for Direct-Drive Applications. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-6	2	8
31	Analytical Modeling of a Double-Rotor Multiwinding Machine for Hybrid Aircraft Propulsion. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 1537-1550	7.6	7
30	Modular Design of an Efficient Permanent Magnet Vernier Machine. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-6	2	7
29	Hour-Ahead Energy Trading Management with Demand Forecasting in Microgrid Considering Power Flow Constraints. <i>Energies</i> , 2019 , 12, 3494	3.1	7
28	Permeance and Inductance Modeling of a Double-Stator Hybrid-Excited Flux-Switching Permanent-Magnet Machine. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 1134-1145	7.6	6
27	Design and Analysis of a Novel Axial-Radial Flux Permanent Magnet Machine with Halbach-Array Permanent Magnets. <i>Energies</i> , 2021 , 14, 3639	3.1	6
26	Deadbeat Predictive Current Control for Series-Winding PMSM Drive with Half-Bridge Power Module-Based Inverter. <i>Energies</i> , 2021 , 14, 4620	3.1	6

25	A Fast Optimization Scheme of Coaxial Magnetic Gears Based on Exact Analytical Model Considering Magnetic Saturation. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 437-447	4.3	5
24	Composite differential evolution algorithm for SHM with low carrier ratio. <i>IET Power Electronics</i> , 2018 , 11, 1101-1109	2.2	5
23	A Dual-Modulator Magnetic-Geared Machine for Tidal-Power Generation. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-7	2	4
22	Analytical model for magnetic-geared double-rotor machines and its d \bar{q} -axis determination. <i>IET Electric Power Applications</i> , 2020 , 14, 175-183	1.8	4
21	Exact Modeling and Multiobjective Optimization of Vernier Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 11740-11751	8.9	4
20	Design of an Effective Double-Rotor Machine With Robust Mechanical Structure. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-7	2	3
19	Induced Voltage Optimization of a Direct-Drive Multi-Phase Permanent Magnet Vernier Generator for Tidal Energy Conversion 2019 ,		3
18	Current Harmonic Suppression for Permanent-Magnet Synchronous Motor Based on Chebyshev Filter and PI Controller. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6	2	3
17	Analysis of Vibration in Modular Fault-tolerant PMSM under One-phase Open-circuit Fault 2018 ,		3
16	Exact Multiphysics Modeling and Experimental Validation of Spoke-Type Permanent Magnet Brushless Machines. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 11658-11671	7.2	3
15	Decoupled Modulation Scheme for Harmonic Current Suppression in Five-Phase PMSM. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	3
14	Improved Multi-Stage Decoupling Space Vector Modulation for Asymmetrical Multi-Phase PMSM with Series Winding Connection. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	3
13	Exact Analytical Solution for Two Types of Magnetic Gear and Their Control 2019 ,		2
12	Air-gap Permeance and Reluctance Network Models for Analyzing Vibrational Exciting Force of In-wheel PMSM. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	2
11	Improved Deadbeat-Direct Torque and Flux Control for PMSM with Less Computation and Enhanced Robustness. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	2
10	Overview of Axial-Flux Machines and Modeling Methods. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	1
9	A Novel Quasi-3D Analytical Model for Axial Flux Motors Considering Magnetic Saturation. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
8	Overview of Propulsion Systems for Unmanned Aerial Vehicles. <i>Energies</i> , 2022 , 15, 455	3.1	1

7	Effect of rotor deformation on magnetic radial force in interior permanent magnet synchronous motors with V-shaped rotor structures 2016 ,		1
6	Design and Control of A New Compound Double-Rotor Electric Machine for Hybrid Propulsion System. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	1
5	A New Cascaded Adaptive Deadbeat Control Method for PMSM Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
4	Harmonic Current Suppression for Dual Three-Phase PMSM Based on Deadbeat Control and Disturbance Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
3	An Improved Dual Iterative Transient Thermal Network Model for PMSM with Natural Air Cooling. <i>IEEE Transactions on Energy Conversion</i> , 2022 , 1-1	5.4	1
2	Nonlinear Force and Vibration Analysis of an Interior Permanent Magnet Synchronous Generator With Eccentricity Detection. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-11	5.5	0
1	Analysis and Design Considerations of a Dual-Rotor Multiple-Winding Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0