Zaixin Song

List of Publications by Year in Descending Order

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	Overview of Axial-Flux Machines and Modeling Methods. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	1
41	Overview of Propulsion Systems for Unmanned Aerial Vehicles. *Energies*, **2022**, 15, 455	3.1	1
40	Decoupled Modulation Scheme for Harmonic Current Suppression in Five-Phase PMSM. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	3
39	Air-gap Permeance and Reluctance Network Models for Analyzing Vibrational Exciting Force of In-wheel PMSM. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	2
38	Improved Multi-Stage Decoupling Space Vector Modulation for Asymmetrical Multi-Phase PMSM with Series Winding Connection. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	3
37	Improved Deadbeat-Direct Torque and Flux Control for PMSM with Less Computation and Enhanced Robustness. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	2
36	A New Cascaded Adaptive Deadbeat Control Method for PMSM Drive. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	1
35	Harmonic Current Suppression for Dual Three-Phase PMSM Based on Deadbeat Control and Disturbance Observer. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	1
34	An Improved Dual Iterative Transient Thermal Network Model for PMSM with Natural Air Cooling. *IEEE Transactions on Energy Conversion*, **2022**, 1-1	5.4	1
33	A Novel Quasi-3D Analytical Model for Axial Flux Motors Considering Magnetic Saturation. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	1
32	Nonlinear Force and Vibration Analysis of an Interior Permanent Magnet Synchronous Generator With Eccentricity Detection. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-11	5.5	0
31	A Critical Review of Advanced Electric Machines and Control Strategies for Electric Vehicles. *Proceedings of the IEEE*, **2021**, 109, 1004-1028	14.3	40
30	Design and Analysis of a Novel Axial-Radial Flux Permanent Magnet Machine with Halbach-Array Permanent Magnets. *Energies*, **2021**, 14, 3639	3.1	6
29	Current Harmonic Suppression for Permanent-Magnet Synchronous Motor Based on Chebyshev Filter and PI Controller. *IEEE Transactions on Magnetics*, **2021**, 57, 1-6	2	3
28	Design and Control of A New Compound Double-Rotor Electric Machine for Hybrid Propulsion System. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	1
27	A Fast Optimization Scheme of Coaxial Magnetic Gears Based on Exact Analytical Model Considering Magnetic Saturation. *IEEE Transactions on Industry Applications*, **2021**, 57, 437-447	4.3	5
26	Suppression of Dual Harmonic Components for Five-Phase Series-Winding PMSM. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	11

25	Candidate Modulation Patterns Solution for Five-Phase PMSM Drive System. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	10
24	Active Harmonic Suppression of Low-Reactance Multi-phase Slotless Permanent Magnet Synchronous Machines. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	9
23	Deadbeat Predictive Current Control for Series-Winding PMSM Drive with Half-Bridge Power Module-Based Inverter. *Energies*, **2021**, 14, 4620	3.1	6
22	Exact Multiphysics Modeling and Experimental Validation of Spoke-Type Permanent Magnet Brushless Machines. *IEEE Transactions on Power Electronics*, **2021**, 36, 11658-11671	7.2	3
21	Exact Modeling and Multiobjective Optimization of Vernier Machines. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 11740-11751	8.9	4
20	Analysis and Design Considerations of a Dual-Rotor Multiple-Winding Machine. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	0
19	Analytical Modeling of a Double-Rotor Multiwinding Machine for Hybrid Aircraft Propulsion. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1537-1550	7.6	7
18	Permeance and Inductance Modeling of a Double-Stator Hybrid-Excited Flux-Switching Permanent-Magnet Machine. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1134-1145	7.6	6
17	A Dual-Modulator Magnetic-Geared Machine for Tidal-Power Generation. *IEEE Transactions on Magnetics*, **2020**, 56, 1-7	2	4
16	Analytical model for magnetic-geared double-rotor machines and its dq-axis determination. *IET Electric Power Applications*, **2020**, 14, 175-183	1.8	4
15	Modular Design of an Efficient Permanent Magnet Vernier Machine. *IEEE Transactions on Magnetics*, **2020**, 56, 1-6	2	7
14	Field Prediction and Validation of a Slotless Segmented-Halbach Permanent Magnet Synchronous Machine for More Electric Aircraft. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1577-1591	7.6	17
13	Design of an Effective Double-Rotor Machine With Robust Mechanical Structure. *IEEE Transactions on Magnetics*, **2020**, 56, 1-7	2	3
12	Analytical Modeling and Comparison of Two Consequent-Pole Magnetic-Geared Machines for Hybrid Electric Vehicles. *Energies*, **2019**, 12, 1888	3.1	10
11	Quantitative Comparison of Distinct Dual-Stator Permanent Magnet Vernier Machines for Direct-Drive Applications. *IEEE Transactions on Magnetics*, **2019**, 55, 1-6	2	8
10	A Consequent-Pole PM Magnetic-Geared Double-Rotor Machine With Flux-Weakening Ability for Hybrid Electric Vehicle Application. *IEEE Transactions on Magnetics*, **2019**, 55, 1-7	2	18
9	Investigation on Magnetic Force of a Flux-Modulated Double-Rotor Permanent Magnet Synchronous Machine for Hybrid Electric Vehicle. *IEEE Transactions on Transportation Electrification*, **2019**, 5, 1383-1394	7.6	19
8	Induced Voltage Optimization of a Direct-Drive Multi-Phase Permanent Magnet Vernier Generator for Tidal Energy Conversion **2019**,		3

7	Hour-Ahead Energy Trading Management with Demand Forecasting in Microgrid Considering Power Flow Constraints. *Energies*, **2019**, 12, 3494	3.1	7
6	Exact Analytical Solution for Two Types of Magnetic Gear and Their Control **2019**,		2
5	. *IEEE Transactions on Magnetics*, **2018**, 54, 1-5	2	9
4	Analysis of Vibration in Modular Fault-tolerant PMSM under One-phase Open-circuit Fault **2018**,		3
3	Composite differential evolution algorithm for SHM with low carrier ratio. *IET Power Electronics*, **2018**, 11, 1101-1109	2.2	5
2	Analysis of Vibrations in Interior Permanent Magnet Synchronous Motors Considering Air-Gap Deformation. *Energies*, **2017**, 10, 1259	3.1	17
1	Effect of rotor deformation on magnetic radial force in interior permanent magnet synchronous motors with V-shaped rotor structures **2016**,		1