Hang Zhao

List of Publications by Year in Descending Order

37 papers	209 citations	8 h-index	12 g-index
40 ext. papers	313 ext. citations	4.8 avg, IF	4 L-index

#	Paper	IF	Citations
37	Overview of Axial-Flux Machines and Modeling Methods. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	1
36	Improved Flux Weakening Control Strategy for Five-phase PMSM Considering Harmonic Voltage Vectors. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	3
35	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
34	Design and Optimization of a Magnetic-Geared Direct-Drive Machine with V-shaped Permanent Magnets for Ship Propulsion. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	0
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	Design and Analysis of a Novel Axial-Radial Flux Permanent Magnet Machine with Halbach-Array Permanent Magnets. *Energies*, **2021**, 14, 3639	3.1	6
30	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
29	Model Predictive Two-Target Current Control for OW-PMSM. *IEEE Transactions on Power Electronics* , **2021**, 36, 3224-3235	7.2	9
28	Model Predictive Torque Control for Dual Three-Phase PMSMs with Simplified Deadbeat Solution and Discrete Space-Vector Modulation. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	10
27	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
26	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
25	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
24	Comparative Study of Double-Stator Interior-PM Vernier Machines Based on Electromagnetic-Structural Coupling Analysis. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 10510-10520	8.9	1
23	Exact Modeling and Multiobjective Optimization of Vernier Machines. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 11740-11751	8.9	4
22	Analysis and Design Considerations of a Dual-Rotor Multiple-Winding Machine. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	0
21	Analytical Modeling of a Double-Rotor Multiwinding Machine for Hybrid Aircraft Propulsion. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1537-1550	7.6	7

20	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
19	A Dual-Modulator Magnetic-Geared Machine for Tidal-Power Generation. *IEEE Transactions on Magnetics*, **2020**, 56, 1-7	2	4
18	Analytical model for magnetic-geared double-rotor machines and its dq-axis determination. *IET Electric Power Applications*, **2020**, 14, 175-183	1.8	4
17	Modular Design of an Efficient Permanent Magnet Vernier Machine. *IEEE Transactions on Magnetics*, **2020**, 56, 1-6	2	7
16	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
15	Design of an Effective Double-Rotor Machine With Robust Mechanical Structure. *IEEE Transactions on Magnetics*, **2020**, 56, 1-7	2	3
14	Design and Multi-Mode Operation of Double-Stator Toroidal-Winding PM Vernier Machine for Wind-Photovoltaic Hybrid Generation System. *IEEE Transactions on Magnetics*, **2019**, 55, 1-7	2	9
13	Analytical Modeling and Comparison of Two Consequent-Pole Magnetic-Geared Machines for Hybrid Electric Vehicles. *Energies*, **2019**, 12, 1888	3.1	10
12	Quantitative Comparison of Distinct Dual-Stator Permanent Magnet Vernier Machines for Direct-Drive Applications. *IEEE Transactions on Magnetics*, **2019**, 55, 1-6	2	8
11	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
10	Design and Optimization Procedure of a Mechanical-Offset Complementary-Stator Flux-Reversal Permanent-Magnet Machine. *IEEE Transactions on Magnetics*, **2019**, 55, 1-7	2	7
9	Enhanced Summation Impedance Relay for EHV Transmission Lines. *IEEE Transactions on Power Delivery*, **2019**, 34, 807-818	4.3	4
8	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
7	Exact Analytical Solution for Two Types of Magnetic Gear and Their Control **2019**,		2
6	Special protection system to cope with the unavailability of sampling values from an entire substation. *International Journal of Electrical Power and Energy Systems*, **2018**, 102, 265-271	5.1	1
5	Similarity Comparison Based High-Speed Pilot Protection for Transmission Line. *IEEE Transactions on Power Delivery*, **2018**, 33, 938-948	4.3	25
4	Design of an Effective Double-Rotor Machine with Robust Mechanical Structure **2018**,		1
3	Forecast of electric vehicle charging demand based on traffic flow model and optimal path planning **2017**,		6

2	An Elastic Charging Service Fee-Based Load Guiding Strategy for Fast Charging Stations. *Energies*, **2017**, 10, 672	3.1	1
1	A novel robust magnetizing inrush fast identification criterion based on partial hausdorff distance **2017**,		1