Hang Zhao

List of Publications by Year
in descending order

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40	614	567144 15	642610 23
papers	citations	h-index	g-index

40	40	40	312
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	5.3	51
2	Improved Flux Weakening Control Strategy for Five-Phase PMSM Considering Harmonic Voltage Vectors. IEEE Transactions on Power Electronics, 2022, 37, 10967-10980.	5.4	45
3	Similarity Comparison Based High-Speed Pilot Protection for Transmission Line. IEEE Transactions on Power Delivery, 2018, 33, 938-948.	2.9	43
4	Model Predictive Two-Target Current Control for OW-PMSM. IEEE Transactions on Power Electronics, 2021, 36, 3224-3235.	5.4	40
5	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.	5.3	29
6	Design and Analysis of a Novel Axial-Radial Flux Permanent Magnet Machine with Halbach-Array Permanent Magnets. Energies, 2021, 14, 3639.	1.6	29
7	Model Predictive Torque Control for Dual Three-Phase PMSMs with Simplified Deadbeat Solution and Discrete Space-Vector Modulation. IEEE Transactions on Energy Conversion, 2021, 36, 1491-1499.	3.7	28
8	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.	1.2	24
9	Analytical Modeling of a Double-Rotor Multiwinding Machine for Hybrid Aircraft Propulsion. IEEE Transactions on Transportation Electrification, 2020, 6, 1537-1550.	5.3	24
10	Design and Optimization of a Magnetic-Geared Direct-Drive Machine With V-Shaped Permanent Magnets for Ship Propulsion. IEEE Transactions on Transportation Electrification, 2022, 8, 1619-1633.	5.3	23
11	Modular Design of an Efficient Permanent Magnet Vernier Machine. IEEE Transactions on Magnetics, 2020, 56, 1-6.	1.2	19
12	Overview of Axial-Flux Machines and Modeling Methods. IEEE Transactions on Transportation Electrification, 2022, 8, 2118-2132.	5.3	18
13	Quantitative Comparison of Distinct Dual-Stator Permanent Magnet Vernier Machines for Direct-Drive Applications. IEEE Transactions on Magnetics, 2019, 55, 1-6.	1.2	17
14	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.	3.3	17
15	Exact Modeling and Multiobjective Optimization of Vernier Machines. IEEE Transactions on Industrial Electronics, 2021, 68, 11740-11751.	5.2	17
16	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.	1.2	15
17	Current Harmonic Suppression for Permanent-Magnet Synchronous Motor Based on Chebyshev Filter and PI Controller. IEEE Transactions on Magnetics, 2021, 57, 1-6.	1.2	15
18	A Novel Quasi-3D Analytical Model for Axial Flux Motors Considering Magnetic Saturation. IEEE Transactions on Energy Conversion, 2022, 37, 1358-1368.	3.7	14

#	Article	IF	Citations
19	Permeance and Inductance Modeling of a Double-Stator Hybrid-Excited Flux-Switching Permanent-Magnet Machine. IEEE Transactions on Transportation Electrification, 2020, 6, 1134-1145.	5.3	12
20	Exact Multiphysics Modeling and Experimental Validation of Spoke-Type Permanent Magnet Brushless Machines. IEEE Transactions on Power Electronics, 2021, 36, 11658-11671.	5.4	12
21	Analytical Modeling and Comparison of Two Consequent-Pole Magnetic-Geared Machines for Hybrid Electric Vehicles. Energies, 2019, 12, 1888.	1.6	11
22	Design and Control of a New Compound Double-Rotor Electric Machine for Hybrid Propulsion System. IEEE Transactions on Power Electronics, 2022, 37, 3283-3296.	5.4	11
23	Forecast of electric vehicle charging demand based on traffic flow model and optimal path planning. , 2017, , .		10
24	Design and Optimization Procedure of a Mechanical-Offset Complementary-Stator Flux-Reversal Permanent-Magnet Machine. IEEE Transactions on Magnetics, 2019, 55, 1-7.	1.2	10
25	Nonlinear Force and Vibration Analysis of an Interior Permanent Magnet Synchronous Generator With Eccentricity Detection. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2545-2555.	3.7	10
26	Comparative Study of Double-Stator Interior-PM Vernier Machines Based on Electromagnetic-Structural Coupling Analysis. IEEE Transactions on Industrial Electronics, 2021, 68, 10510-10520.	5.2	9
27	Analysis and Design Considerations of a Dual-Rotor Multiple-Winding Machine. IEEE Transactions on Industrial Electronics, 2022, 69, 8727-8738.	5.2	9
28	Improved Deadbeat-Direct Torque and Flux Control for PMSM With Less Computation and Enhanced Robustness. IEEE Transactions on Industrial Electronics, 2023, 70, 2254-2263.	5.2	8
29	Enhanced Summation Impedance Relay for EHV Transmission Lines. IEEE Transactions on Power Delivery, 2019, 34, 807-818.	2.9	7
30	Comparative Analysis of Slotless and Coreless Permanent Magnet Synchronous Machines for Electric Aircraft Propulsion. , 2019, , .		7
31	A Dual-Modulator Magnetic-Geared Machine for Tidal-Power Generation. IEEE Transactions on Magnetics, 2020, 56, 1-7.	1.2	7
32	Design of an Effective Double-Rotor Machine With Robust Mechanical Structure. IEEE Transactions on Magnetics, 2020, 56, 1-7.	1.2	6
33	Analytical model for magneticâ€geared doubleâ€rotor machines and its dâ€“q â€axis determination. IET Electric Power Applications, 2020, 14, 175-183.	1.1	6
34	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.	3.3	3
35	Exact Analytical Solution for Two Types of Magnetic Gear and Their Control. , 2019, , .		3
36	An Elastic Charging Service Fee-Based Load Guiding Strategy for Fast Charging Stations. Energies, 2017, 10, 672.	1.6	2

#	Article	IF	Citations
37	A novel robust magnetizing inrush fast identification criterion based on partial hausdorff distance. , 2017, , .		1
38	Design of an Effective Double-Rotor Machine with Robust Mechanical Structure. , 2018, , .		1
39	Improved Torque Density of a Permanent Magnet Brushless AC Motor with Novel Pulse Width Modulation Magnet for Electrified Application. , 2020, , .		1
40	Modular Design of an Efficent Permanent Magnet Vernier Machine. , 2018, , .		0