

Huimin Wang

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Control Set-Model Predictive Control for Field-Oriented Control of VSI-PMSM. IEEE Transactions on Energy Conversion, 2016, 31, 1622-1633.	5.2	66
2	Cogging Torque Modeling and Analyzing for Surface-Mounted Permanent Magnet Machines With Auxiliary Slots. IEEE Transactions on Magnetics, 2013, 49, 5112-5123.	2.1	55
3	Modeling and Analyzing of Magnetic Field of Segmented Halbach Array Permanent Magnet Machine Considering Gap Between Segments. IEEE Transactions on Magnetics, 2014, 50, 1-9.	2.1	34
4	Analytical Field Calculation and Analysis of Surface Inset Permanent Magnet Machines With High Saliency Ratio. IEEE Transactions on Magnetics, 2016, 52, 1-12.	2.1	29
5	Optimal Designing of Permanent Magnet Cavity to Reduce Iron Loss of Interior Permanent Magnet Machine. IEEE Transactions on Magnetics, 2015, 51, 1-9.	2.1	28
6	Accurate Analytical Method for Magnetic Field Calculation of Interior PM Motors. IEEE Transactions on Energy Conversion, 2021, 36, 325-337.	5.2	22
7	Improved equivalent magnetic network modeling for analyzing working points of PMs in interior permanent magnet machine. Journal of Magnetism and Magnetic Materials, 2018, 454, 39-50.	2.3	21
8	Maximum Torque Per Ampere (MTPA) Control of IPMSM Systems Based on Controller Parameters Self-Modification. IEEE Transactions on Vehicular Technology, 2020, 69, 2613-2620.	6.3	20
9	Analysis and Design of Dual Three-Phase Fractional-Slot Permanent Magnet Motor With Low Space Harmonic. IEEE Transactions on Magnetics, 2022, 58, 1-12.	2.1	19
10	Parameter tuning of particle swarm optimization by using Taguchi method and its application to motor design. , 2014, , .		18
11	Oil Injection Cooling Design for the IPMSM Applied in Electric Vehicles. IEEE Transactions on Transportation Electrification, 2022, 8, 3427-3440.	7.8	13
12	Design and Analysis for Torque Ripple Reduction in Synchronous Reluctance Machine. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	12
13	Inductance Calculation of Interior Permanent Magnet Machines Considering Asymmetrical Saturation of the Bridge. IEEE Transactions on Magnetics, 2019, 55, 1-11.	2.1	12
14	Sensorless Control Method for Dual Permanent Magnet Synchronous Motors Driven by Five-Leg Voltage Source Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 260-272.	5.4	12
15	Deadbeat predictive current control of permanent magnet synchronous motor based on variable step-size adaptive neural network parameter identification. IET Electric Power Applications, 2020, 14, 2007-2015.	1.8	12
16	Sensorless-MTPA Control of Permanent Magnet Synchronous Motor Based on an Adaptive Sliding Mode Observer. Energies, 2019, 12, 3773.	3.1	11
17	Optimal Design of Permanent Magnet Structure to Reduce Unbalanced Magnetic Pull in Surface-Mounted Permanent-Magnet Motors. IEEE Access, 2020, 8, 77811-77819.	4.2	11
18	Initial Rotor Position Detection for Permanent Magnet Synchronous Motor Based on High-Frequency Voltage Injection without Filter. World Electric Vehicle Journal, 2020, 11, 71.	3.0	9

#	ARTICLE	IF	CITATIONS
19	The Torque Ripple Reduction in PMAREL Machine Using Time-Space Harmonics Analysis of Air-Gap Flux Density. IEEE Transactions on Industrial Electronics, 2022, 69, 2390-2401.	7.9	5
20	An Improved Electronic Line Shafting Control for Multimotor Drive System Based on Sliding Mode Observer. Mathematical Problems in Engineering, 2019, 2019, 1-13.	1.1	4
21	Analytical Calculation for Magnetic Field in Spoke-Type Permanent Magnet Machines Based on a Rotor Magnetic Potential Model. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	4
22	Optimal design of rotor geometry in interior permanent magnet machine. International Journal of Applied Electromagnetics and Mechanics, 2019, 60, 337-353.	0.6	3
23	Modeling and Analyzing for Magnetic Field of Segmented Surface-Mounted PM Motors with Skewed Poles. Journal of Electrical Engineering and Technology, 0, , 1.	2.0	3
24	Finite controlâ€set model predictive direct speed control of a PMSM drive based on the Taylor series model. IET Electric Power Applications, 2021, 15, 1452-1465.	1.8	2
25	Optimization Design of Unequal Amplitude Modulated Poles for the Bearingless PMSM. Energies, 2022, 15, 3097.	3.1	2
26	Analytical modelling for magnetic field of interior permanent magnet synchronous motors accounting for bridge saturation. IET Electric Power Applications, 2022, 16, 844-855.	1.8	2
27	An Improved Rotor Cooling Structure of IPMSM. , 2019, , .		1
28	Voltage feedback based flux-weakening control of IPMSMs with fuzzy-PI controller. International Journal of Applied Electromagnetics and Mechanics, 2020, 62, 31-43.	0.6	1
29	Design and Analysis of Modulated Magnetic Pole for Dual Three-Phase Surface-Mounted Permanent Magnet Synchronous Motor. Energies, 2022, 15, 4597.	3.1	1
30	Optimal design of hybrid consequent-pole permanent magnet motor to reduce torque ripple. International Journal of Applied Electromagnetics and Mechanics, 2022, , 1-26.	0.6	0