

Xiaoyan Huang

List of Publications by Year in Descending Order

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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.

102
papers

938
citations

15
h-index

26
g-index

144
ext. papers

1,304
ext. citations

3.9
avg, IF

4.65
L-index

#	Paper	IF	Citations
102	Nonlinear Analytical Modelling for Surface-Mounted Permanent Magnet Motors with Magnet Defect Fault. <i>IEEE Transactions on Energy Conversion</i> , 2022 , 1-1	5.4	1
101	Analytical Calculation of Eccentric Surface-Mounted Permanent-Magnet Motor Accounting for Iron Saturation. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	1
100	An Online Groundwall Insulation Monitoring Method Based on Transient Characteristics of Leakage Current for Inverter-Fed Motors. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	0
99	Nonlinear Analytical Model for Predicting Magnet Loss in Surface-Mounted Permanent-Magnet Motors. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	
98	Detection of Stator Winding Faults in PMSMs Based on Second Harmonics of Phase Instantaneous Reactive Powers. <i>Energies</i> , 2022 , 15, 3248	3.1	1
97	RLS-Based Algorithm for Detecting Partial Demagnetization under Both Stationary and Nonstationary Conditions. <i>Energies</i> , 2022 , 15, 3509	3.1	1
96	Investigation of Analytical Models for Surface-Mounted Permanent Magnet Motor Using Voltage Source Inverter. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	
95	An investigation on AC loss reduction for permanent-magnet wind power generator with superconducting windings. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2021 , 1-13	0.4	0
94	Analytical Model of Electromagnetic Performance for Permanent-Magnet Vernier Machines using Nonlinear Exact Conformal Model. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	
93	Nonlinear Analytical Analysis of External Rotor Permanent Magnet Synchronous Motor. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-4	2	1
92	CoboSkin: Soft Robot Skin With Variable Stiffness for Safer HumanRobot Collaboration. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 3303-3314	8.9	23
91	Novel Fault-Tolerant Doubly Fed Flux Reversal Machine With Armature Windings Wound on Both Stator and Rotor Teeth. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 4780-4789	8.9	5
90	Harmonic Torque Suppression Methods for Single-Phase Open-Circuit Fault-Tolerant Operation of PMSM Considering Third Harmonic BEMF. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1116-1129	7.2	6
89	A Novel Axially Magnetized Vernier Permanent-Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	2
88	Analysis of a New Partitioned-Primary Flux-Reversal Hybrid-Excited Linear Motor. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 448-457	4.3	6
87	Research on four-wheel independent steering intelligent control strategy based on minimum load. <i>Concurrency Computation Practice and Experience</i> , 2021 , 33, e6145	1.4	
86	Robust Stator Winding Fault Detection in PMSMs With Respect to Current Controller Bandwidth. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 5032-5042	7.2	6

85	An Improved Hybrid Field Model for Calculating On-Load Performance of Interior Permanent-Magnet Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 9207-9217	8.9	9
84	Design Consideration of Fractional Slot Concentrated Winding Interior Permanent Magnet Synchronous Motor for EV and HEV Applications. <i>IEEE Access</i> , 2021 , 9, 64116-64126	3.5	4
83	Electromagnetic Analysis for Interior Permanent-Magnet Machine using Hybrid Subdomain Model. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
82	. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10409-10419	7.2	2
81	Full Parameters Estimation for Permanent Magnet Synchronous Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	8
80	Teleoperation of Collaborative Robot for Remote Dementia Care in Home Environments. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2020 , 8, 1400510	3	13
79	Adaptive Torque Ripple Suppression Methods of Three-Phase PMSM During Single-Phase Open-Circuit Fault-Tolerant Operation. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 4955-4965	4.3	11
78	DC-Link-Fluctuation-Resistant Predictive Torque Control for Railway Traction Permanent Magnet Synchronous Motor in the Six-Step Operation. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 10982-10993	7.2	10
77	Time-Frequency Characteristics Research of Common Mode Current in PWM Motor System. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 1450-1458	7.2	5
76	IoT-Enabled Dual-Arm Motion Capture and Mapping for Telerobotics in Home Care. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 1541-1549	7.2	17
75	Current Prediction Error Reduction Method of Predictive Current Control for Permanent Magnet Synchronous Motors. <i>IEEE Access</i> , 2020 , 8, 124288-124296	3.5	2
74	. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020 , 2, 670-680	3.1	5
73	Modeling and Design of a 3-DOF Magnetic Bearing With Toroidal Radial Control Coils. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-7	2	2
72	A Novel Structure of Doubly Salient Permanent Magnet Machine in Square Envelope. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	12
71	Influence of Clamping Bolts on Electromagnetic Performance of PMSM Machines and Its Restraining Methods. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 4567-4577	4.3	1
70	Optimal Design of Outer Rotor Interior Permanent Magnet Synchronous Machine With Hybrid Permanent Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	6
69	Flux-Density Harmonics Analysis of Switched-Flux Permanent Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-7	2	6
68	Open-Circuit Field Prediction of Interior Permanent-Magnet Motor Using Hybrid Field Model Accounting for Saturation. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-7	2	10

67	On-Load Field Prediction of Surface-Mounted PM Machines Considering Nonlinearity Based on Hybrid Field Model. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-11	2	18
66	A Hybrid Interior Permanent Magnet Variable Flux Memory Machine Using Two-Part Rotor. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-8	2	9
65	Comparison of Electromagnetic Performance of SCPM Wind Power Generators With Different Topologies. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	9
64	A Simple and Practical Duty Cycle Modulated Direct Torque Control for Permanent Magnet Synchronous Motors. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 1572-1579	7.2	24
63	Design Optimization and Performance Investigation of Novel Linear Induction Motors With Two Kinds of Secondaries. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 5830-5842	4.3	6
62	Stator Design Aspects for Permanent Magnet Superconducting Wind Power Generators. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	4
61	A Virtual Signal Injection Based MTPV Control for IPMSM 2019 ,		2
60	An Adaptive Torque Ripple Suppression Method of Three-Phase PMSM During Single-Phase Open-Circuit Fault-Tolerant Operation 2019 ,		1
59	Flexible Insole Sensors with Stably Connected Electrodes for Gait Phase Detection. <i>Sensors</i> , 2019 , 19,	3.8	15
58	Dynamic Modeling of Surface-Mounted Permanent Magnet Motors Considering Saturation 2019 ,		1
57	Compensation of DC-Link Voltage Fluctuation for Railway Traction PMSM in Multiple Low-Switching-Frequency Synchronous Space Vector Modulation Modes. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 235-250	6.8	15
56	An Accurate Virtual Signal Injection Control of MTPA for an IPMSM With Fast Dynamic Response. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 7916-7926	7.2	23
55	Improved Flux-Weakening Control of IPMSMs Based on Torque Feedforward Technique. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 10970-10978	7.2	19
54	Analysis of a Novel Double-Sided Yokeless Multitooth Linear Switched-Flux PM Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 1837-1845	8.9	35
53	A Hybrid Field Model for Open-Circuit Field Prediction in Surface-Mounted PM Machines Considering Saturation. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-12	2	27
52	Prediction Error Analysis of Finite-Control-Set Model Predictive Current Control for IPMSMs. <i>Energies</i> , 2018 , 11, 2051	3.1	6
51	Influence of Clamping Bolts on Electromagnetic Performance of PMSM Machines and its Restraining Methods 2018 ,		1
50	Comparison of Electromagnetic Performance of Superconducting Permanent Magnet Wind Power Generator with Different Topologies 2018 ,		2

49	Comparison of PMSMs with Different Rotor Structures for EV Application 2018 ,		2
48	A Novel Structure of Doubly Salient Permanent Magnet Machine 2018 ,		2
47	Investigation of cross-coupling effect and its restraining methods of a 3-DOF hybrid magnetic bearing. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2018 , 37, 2195-2210	0.7	3
46	Dynamic Reluctance Mesh Modeling and Losses Evaluation of Permanent Magnet Traction Motor. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	7
45	Fast Calculation of Detent Force in PM Linear Synchronous Machines With Considering Magnetic Saturation. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	5
44	Analytical Modeling of a Novel Vernier Pseudo-Direct-Drive Permanent-Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	10
43	Design of a Dual-Stator Superconducting Permanent Magnet Wind Power Generator With Different Rotor Configuration. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	10
42	Analysis of a Novel Linear Doubly Salient Slot Permanent Magnet Motor. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	12
41	Deep flux weakening control with six-step overmodulation for a segmented interior permanent magnet synchronous motor 2017 ,		5
40	An Improved Magnetic Circuit Model of a 3-DOF Magnetic Bearing Considering Leakage and Cross-Coupling Effects. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6	2	10
39	Design and Performance Investigation of Novel Linear Switched Flux PM Machines. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 4590-4602	4.3	14
38	Optimal charging method for mismatched transceiver coils in wireless power transfer 2017 ,		1
37	Optimal power transfer with aluminum shielding for wireless power transfer systems 2017 ,		1
36	Investigation of cross-coupling effect of a 3-DOF magnetic bearing using magnetic circuit method 2017 ,		4
35	Optimization and performance of linear PM-assisted reluctance synchronous machine for wave energy generation 2017 ,		1
34	A comparative study on two outer rotor PMSMs for in-wheel direct drive under short-circuit faults 2017 ,		3
33	Comparison of direct-drive permanent-magnet synchronous motor and permanent-magnet flux-modulated motor for electric vehicles 2017 ,		5
32	Predicting Iron Losses in Soft Magnetic Materials Under DC Bias Conditions Based on Steinmetz Premagnetization Graph. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	8

31	Simulation of an Electromagnetic Launcher With a Superconducting Inductive Pulsed Power Supply. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	3
30	Design optimization and performance investigation of novel linear switched flux PM machines 2016 ,		2
29	Influence of Magnet Height on Unbalanced Magnetic Force of Surface-Mounted Permanent Magnet Machines 2016 ,		1
28	Performance of partitioned primary linear switched flux PM machines 2016 ,		4
27	Automatic Frequency Tuning with Power-Level Tracking System for Wireless Charging of Electric Vehicles 2016 ,		2
26	Voltage transfer ratio analysis for multi-receiver resonant power transfer systems. <i>IET Power Electronics</i> , 2016 , 9, 2795-2802	2.2	5
25	Design and analysis of a outer-rotor permanent-magnet flux-modulated motor for electric vehicles 2016 ,		1
24	Magnetic field design for optimal wireless power transfer to multiple receivers. <i>IET Power Electronics</i> , 2016 , 9, 1885-1893	2.2	12
23	Design and Analysis of a Switched Reluctance Motor with Superconducting Windings and Tapering Poles. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-4	1.8	6
22	Evaluation of Applying Retaining Shield Rotor for High-Speed Interior Permanent Magnet Motors. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	4
21	Investigation of PMLM with different type winding for ropeless elevator 2015 ,		2
20	Control Integrated Studies on High Speed Permanent Magnetic Generators System. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	2
19	Performance and control method of PMSMs traction system in high speed train under passing neutral section condition 2015 ,		1
18	Analysis of thrust ripple of permanent magnet linear synchronous motor with skewed PMs 2015 ,		3
17	Performance investigation of a novel multi-tooth switched-flux linear motor 2015 ,		2
16	Investigation of double-sided multi-tooth switched-flux linear motor 2015 ,		6
15	Predicting Iron Losses in Laminated Steel with Given Non-Sinusoidal Waveforms of Flux Density. <i>Energies</i> , 2015 , 8, 13726-13740	3.1	11
14	Modeling and Investigation of Thermal Characteristics of a Water-Cooled Permanent-Magnet Linear Motor. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 2086-2096	4.3	57

13	Electromagnetic and thermal coupling analysis of a water-cooled double-sided permanent magnet linear synchronous motor 2015,		1
12	Comparison of synchronization control techniques for traction motors of high-speed trains 2014,		8
11	Thermal analysis of a brushless DC motor for aerospace application using thermal network models 2013,		1
10	Design of in-wheel permanent magnet synchronous motor with concentrated fractional-slot winding and winding switching technology 2013,		1
9	Design of a Five-Phase Brushless DC Motor for a Safety Critical Aerospace Application. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 3532-3541	8.9	65
8	Thrust Ripple of a Permanent Magnet LSM With Step Skewed Magnets. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4666-4669	2	26
7	A Single Sided Matrix Converter Drive for a Brushless DC Motor in Aerospace Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 3542-3552	8.9	63
6	A Brushless DC motor design for an aircraft electro-hydraulic actuation system 2011,		5
5	Assessment of iec 60034-2-1 in determining induction machine efficiency. <i>European Transactions on Electrical Power</i> , 2011 , 21, 188-195		
4	Multiphase Power Converter Drive for Fault-Tolerant Machine Development in Aerospace Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 575-583	8.9	127
3	Simulation of a site-specific doubly-fed induction generator (DFIG) for wind turbine applications 2008,		1
2	Fault- Tolerance Analysis of Multi-Phase Single Sided Matrix Converter for Brushless DC Drives 2007,		4
1	Fault-Tolerant Brushless DC Motor Drive For Electro-Hydrostatic Actuation System In Aerospace Application. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006,		9