

Lijian Wu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4908513/lijian-wu-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107
papers

1,782
citations

22
h-index

40
g-index

124
ext. papers

2,223
ext. citations

3.9
avg, IF

5.21
L-index

#	Paper	IF	Citations
107	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
106	Improving Combined Flow and Thermal Network Accuracy for Radially Air-cooled Generators by Considering the Non-linear Resistance Characteristics of T-junction Flow. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	
105	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
104	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
103	Nonlinear Analytical Model for Predicting Magnet Loss in Surface-Mounted Permanent-Magnet Motors. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	
102	Comparative Study of Biased Flux PM Machines Having Different Stator Core Segments and Armature Winding Configurations. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	0
101	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
100	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	
99	Optimization and Comparison of Dual-Armature Flux-Switching Permanent Magnet Machines With Different Stator Core Shapes. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
98	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	
97	Comparative Study Between Doubly Salient PM Machine With New Stator/Rotor-Pole Number Combination and Biased Flux PM Machine. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 2354-2363	4.3	3
96	Comparative Study of Novel Doubly Fed Doubly Salient PM Machines With Different Stator/Rotor-Pole Number Combinations. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	1
95	Analytical prediction of electromagnetic performance of dual-stator consequent-pole PM machines based on subdomain model accounting for tooth-tips. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2021 , 40, 289-308	0.7	
94	Electromagnetic Performance Comparison of Doubly Salient PM Machines With Different Stator Iron Core Segments. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3699-3709	4.3	
93	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
92	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
91	A Novel Axially Magnetized Vernier Permanent-Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	2

90	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
89	Comparative Analysis of Doubly Fed Flux-Reversal Permanent Magnet Machines With Different PM Arrangements and Consequent-Pole Topologies. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6	2	0
88	Magnetic Circuit Modeling of Dual-Armature Flux-Switching Permanent Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-13	2	2
87	Influence of Start Rotor Position on 3-Phase Short Circuit Current in Dual 3-Phase Surface-Mounted PM Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
86	Winding Configurations and Pole/Tooth Combinations of Doubly-Fed Flux-Switching Permanent Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	5
85	Numerical investigation of the impact of wind turbine rotor on the passive cooler above nacelle. <i>AIP Advances</i> , 2021 , 11, 015248	1.5	
84	Electromagnetic Analysis for Interior Permanent-Magnet Machine using Hybrid Subdomain Model. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
83	. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10409-10419	7.2	2
82	Influence of Dimensional Parameters on Three-Phase Short Circuit and Demagnetization in Surface-Mounted PM Machines. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 2514-2523	5.4	4
81	Modeling of a Novel 12-Stator-Pole/10-Rotor-Tooth Doubly-Fed Flux-Switching Permanent Magnet Machine. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 2206-2216	5.4	6
80	Improved Stator/Rotor-Pole Number Combinations for Torque Ripple Reduction in Doubly Salient PM Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 10601-10611	8.9	5
79	Investigation of Postdemagnetization Unbalanced Magnetic Force in PM Machines Considering Short-Circuit Faults. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 2728-2742	7.6	
78	Improved Primary/Secondary Pole Number Combinations for Dual-Armature Linear Switched Flux Permanent Magnet Machines. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 2589-2599	7.6	1
77	Comparison Between Dual-Armature Linear Switched Flux Permanent Magnet Machine and Linear Surface-Mounted Permanent Magnet Machine Considering Thermal Conditions. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	2
76	Analysis of Dual-Armature Flux Reversal Permanent Magnet Machines with Halbach Array Magnets. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	3
75	Influence of Load Characteristics on Three-Phase Short Circuit and Demagnetization of Surface-Mounted PM Synchronous Motor. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 2427-2440	4.3	5
74	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
73	A Novel Doubly-Fed Flux Reversal Linear Machine With Armature Windings Wound on Both Stator and Mover Teeth. <i>IEEE Access</i> , 2020 , 8, 35563-35571	3.5	1

72	Comparative Study of Novel Doubly-Fed Linear Switched Flux Permanent Magnet Machines With Different Primary Structures. <i>IEEE Access</i> , 2020 , 8, 69401-69412	3.5	4
71	Influence of Design Parameters on Output Torque of Novel Doubly-Fed Flux-Switching Permanent Magnet Machines 2020 ,		1
70	Predicting Airflow Distribution in A Radially Air-Cooled Generator by Flow Network Method 2020 ,		1
69	A Novel Doubly-Fed Flux-Switching Permanent Magnet Machine With Armature Windings Wound on Both Stator Poles and Rotor Teeth. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 10223-10232	8.9	23
68	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
67	Harmonic Analysis of Airgap Magnetic Fields in Doubly-Fed Flux Reversal Permanent Magnet Machines. <i>IEEE Access</i> , 2020 , 8, 134856-134867	3.5	1
66	Single- and Two-Phase Open-Circuit Fault Tolerant Control for Dual Three-Phase PM Motor Without Phase Shifting. <i>IEEE Access</i> , 2020 , 8, 171945-171955	3.5	3
65	On-Load Field Prediction in SPM Machines by a Subdomain and Magnetic Circuit Hybrid Model. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 7190-7201	8.9	44
64	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
63	A Novel Structure of Doubly Salient Permanent Magnet Machine in Square Envelope. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	12
62	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
61	Magnetic Field Prediction in Surface-Mounted PM Machines with Parallel Slot Based on a Nonlinear Subdomain and Magnetic Circuit Hybrid Model 2019 ,		3
60	Influence of Load Characteristics on Three-Phase Short Circuit and Demagnetization of Surface-Mounted PM Synchronous Motor 2019 ,		1
59	Comparative Study Between Doubly Salient PM Machine with New Stator/Rotor-Pole Number Combination and Biased Flux PM Machine 2019 ,		2
58	A Subdomain Model for Open-Circuit Field Prediction in Dual-Stator Consequent-Pole Permanent Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-12	2	9
57	A Nonlinear Subdomain and Magnetic Circuit Hybrid Model for Open-Circuit Field Prediction in Surface-Mounted PM Machines. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 1485-1495	5.4	34
56	. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-8	2	9
55	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

54	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
53	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
52	Design and Analysis of Outer Rotor Permanent-Magnet Vernier Machines with Overhang Structure for In-Wheel Direct-Drive Application. <i>Energies</i> , 2019 , 12, 1238	3.1	5
51	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
50	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
49	Improved Stator/Rotor-Pole Number Combinations for Torque Ripple Reduction in Doubly Salient PM Machines 2019 ,		2
48	Stator Design Aspects for Permanent Magnet Superconducting Wind Power Generators. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	4
47	Electromagnetic Performance Comparison of Doubly Salient PM Machines with Different Stator Iron Core Segments 2019 ,		1
46	An Adaptive Torque Ripple Suppression Method of Three-Phase PMSM During Single-Phase Open-Circuit Fault-Tolerant Operation 2019 ,		1
45	Dynamic Modeling of Surface-Mounted Permanent Magnet Motors Considering Saturation 2019 ,		1
44	Design Optimization and Performance Investigation of Linear Doubly Salient Slot Permanent Magnet Machines. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 1524-1535	4.3	9
43	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
42	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
41	Prediction Error Analysis of Finite-Control-Set Model Predictive Current Control for IPMSMs. <i>Energies</i> , 2018 , 11, 2051	3.1	6
40	Influence of Clamping Bolts on Electromagnetic Performance of PMSM Machines and its Restraining Methods 2018 ,		1
39	Comparison of Electromagnetic Performance of Superconducting Permanent Magnet Wind Power Generator with Different Topologies 2018 ,		2
38	Power Perturbation Based Virtual Signal Injection Control of MTPA for IPMSM Drive System 2018 ,		3
37	Comparison of PMSMs with Different Rotor Structures for EV Application 2018 ,		2

36	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
35	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
34	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
33	Effect of magnet thickness on electromagnetic performance of high speed permanent magnet machines 2017 ,		4
32	Design and performance investigation of doubly salient slot permanent magnet linear machines 2017 ,		1
31	Investigation of cross-coupling effect of a 3-DOF magnetic bearing using magnetic circuit method 2017 ,		4
30	Analytical On-Load Subdomain Field Model of Permanent-Magnet Vernier Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4105-4117	8.9	83
29	Influence of Magnet Height on Unbalanced Magnetic Force of Surface-Mounted Permanent Magnet Machines 2016 ,		1
28	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
27	Analytical Synthesis of Air-Gap Field Distribution in Permanent Magnet Machines With Rotor Eccentricity by Superposition Method. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	16
26	Analytical Modeling of Surface-Mounted PM Machines Accounting for Magnet Shaping and Varied Magnet Property Distribution. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-11	2	30
25	Simplified Analytical Model and Investigation of Open-Circuit AC Winding Loss of Permanent-Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4990-4999	8.9	28
24	Distortion of Back-EMF and Torque of PM Brushless Machines Due to Eccentricity. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 4927-4936	2	33
23	Electromagnetic performance of interior permanent magnet machines with eccentricity 2013 ,		3
22	Influence of Slot and Pole Number Combinations on Unbalanced Magnetic Force in PM Machines With Diametrically Asymmetric Windings. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 19-30	4.3	69
21	Influence of pole and slot number combinations on cogging torque in permanent magnet machines with static and rotating eccentricities 2013 ,		7
20	Unbalanced magnetic force in permanent magnet machines having asymmetric windings and static/rotating eccentricities 2013 ,		5
19	Analytical Modeling and Analysis of Open-Circuit Magnet Loss in Surface-Mounted Permanent-Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 1234-1247	2	37

18	Analytical Model for Predicting Magnet Loss of Surface-Mounted Permanent Magnet Machines Accounting for Slotting Effect and Load. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 107-117	2	56
17	Analytical Model of Eddy Current Loss in Windings of Permanent-Magnet Machines Accounting for Load. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2138-2151	2	58
16	. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2414-2425	8.9	111
15	Analytical investigation of open-circuit eddy current loss in windings of PM machines 2012 ,		12
14	Analytical modeling of eddy current loss in retaining sleeve of surface-mounted PM machines accounting for influence of slot opening 2012 ,		9
13	Analytical determination of optimal split ratio for overlapping and non-overlapping winding external rotor PM brushless machines 2011 ,		3
12	Analytical cogging torque prediction for surface-mounted PM machines accounting for different slot sizes and uneven positions 2011 ,		9
11	An Improved Subdomain Model for Predicting Magnetic Field of Surface-Mounted Permanent Magnet Machines Accounting for Tooth-Tips. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 1693-1704	2	135
10	Subdomain Model for Predicting Armature Reaction Field of Surface-Mounted Permanent-Magnet Machines Accounting for Tooth-Tips. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 812-822	2	63
9	Comparison of radial vibration forces in 10-pole/12-slot fractional slot surface-mounted and interior PM brushless AC machines 2010 ,		21
8	Comparison of analytical models for predicting cogging torque in surface-mounted PM machines 2010 ,		22
7	Comparison of analytical models for predicting electromagnetic performance in surface-mounted permanent magnet machines 2010 ,		5
6	An Accurate Subdomain Model for Magnetic Field Computation in Slotted Surface-Mounted Permanent-Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1100-1115	2	280
5	Optimal Split Ratio in Fractional-Slot Interior Permanent-Magnet Machines With Non-Overlapping Windings. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1235-1242	2	57
4	An Analytical Model of Unbalanced Magnetic Force in Fractional-Slot Surface-Mounted Permanent Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 2686-2700	2	60
3	Influence of slot and pole number combination on radial force and vibration modes in fractional slot PM brushless machines having single- and double-layer windings 2009 ,		86
2	Optimal split ratio in fractional-slot interior permanent magnet machines with non-overlapping windings 2009 ,		5
1	Influence of Stator Asymmetry on Cogging Torque of Permanent Magnet Brushless Machines. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3851-3854	2	46

