Lijian Wu

List of Publications by Citations

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	An Accurate Subdomain Model for Magnetic Field Computation in Slotted Surface-Mounted Permanent-Magnet Machines. *IEEE Transactions on Magnetics*, **2010**, 46, 1100-1115	2	280
106	An Improved Subdomain Model for Predicting Magnetic Field of Surface-Mounted Permanent Magnet Machines Accounting for Tooth-Tips. *IEEE Transactions on Magnetics*, **2011**, 47, 1693-1704	2	135
105	. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 2414-2425	8.9	111
104	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
103	Analytical On-Load Subdomain Field Model of Permanent-Magnet Vernier Machines. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 4105-4117	8.9	83
102	Influence of Slot and Pole Number Combinations on Unbalanced Magnetic Force in PM Machines With Diametrically Asymmetric Windings. *IEEE Transactions on Industry Applications*, **2013**, 49, 19-30	4.3	69
101	Subdomain Model for Predicting Armature Reaction Field of Surface-Mounted Permanent-Magnet Machines Accounting for Tooth-Tips. *IEEE Transactions on Magnetics*, **2011**, 47, 812-822	2	63
100	An Analytical Model of Unbalanced Magnetic Force in Fractional-Slot Surface-Mounted Permanent Magnet Machines. *IEEE Transactions on Magnetics*, **2010**, 46, 2686-2700	2	60
99	Analytical Model of Eddy Current Loss in Windings of Permanent-Magnet Machines Accounting for Load. *IEEE Transactions on Magnetics*, **2012**, 48, 2138-2151	2	58
98	Optimal Split Ratio in Fractional-Slot Interior Permanent-Magnet Machines With Non-Overlapping Windings. *IEEE Transactions on Magnetics*, **2010**, 46, 1235-1242	2	57
97	Analytical Model for Predicting Magnet Loss of Surface-Mounted Permanent Magnet Machines Accounting for Slotting Effect and Load. *IEEE Transactions on Magnetics*, **2012**, 48, 107-117	2	56
96	Influence of Stator Asymmetry on Cogging Torque of Permanent Magnet Brushless Machines. *IEEE Transactions on Magnetics*, **2008**, 44, 3851-3854	2	46
95	On-Load Field Prediction in SPM Machines by a Subdomain and Magnetic Circuit Hybrid Model. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 7190-7201	8.9	44
94	Analytical Modeling and Analysis of Open-Circuit Magnet Loss in Surface-Mounted Permanent-Magnet Machines. *IEEE Transactions on Magnetics*, **2012**, 48, 1234-1247	2	37
93	A Nonlinear Subdomain and Magnetic Circuit Hybrid Model for Open-Circuit Field Prediction in Surface-Mounted PM Machines. *IEEE Transactions on Energy Conversion*, **2019**, 34, 1485-1495	5.4	34
92	Distortion of Back-EMF and Torque of PM Brushless Machines Due to Eccentricity. *IEEE Transactions on Magnetics*, **2013**, 49, 4927-4936	2	33
91	Analytical Modeling of Surface-Mounted PM Machines Accounting for Magnet Shaping and Varied Magnet Property Distribution. *IEEE Transactions on Magnetics*, **2014**, 50, 1-11	2	30

90	Simplified Analytical Model and Investigation of Open-Circuit AC Winding Loss of Permanent-Magnet Machines. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 4990-4999	8.9	28
89	A Hybrid Field Model for Open-Circuit Field Prediction in Surface-Mounted PM Machines Considering Saturation. *IEEE Transactions on Magnetics*, **2018**, 54, 1-12	2	27
88	A Simple and Practical Duty Cycle Modulated Direct Torque Control for Permanent Magnet Synchronous Motors. *IEEE Transactions on Power Electronics*, **2019**, 34, 1572-1579	7.2	24
87	A Novel Doubly-Fed Flux-Switching Permanent Magnet Machine With Armature Windings Wound on Both Stator Poles and Rotor Teeth. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 10223-10232	8.9	23
86	Comparison of analytical models for predicting cogging torque in surface-mounted PM machines **2010**,		22
85	Comparison of radial vibration forces in 10-pole/12-slot fractional slot surface-mounted and interior PM brushless AC machines **2010**,		21
84	Improved Flux-Weakening Control of IPMSMs Based on Torque Feedforward Technique. *IEEE Transactions on Power Electronics*, **2018**, 33, 10970-10978	7.2	19
83	On-Load Field Prediction of Surface-Mounted PM Machines Considering Nonlinearity Based on Hybrid Field Model. *IEEE Transactions on Magnetics*, **2019**, 55, 1-11	2	18
82	Analytical Synthesis of Air-Gap Field Distribution in Permanent Magnet Machines With Rotor Eccentricity by Superposition Method. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	16
81	A Novel Structure of Doubly Salient Permanent Magnet Machine in Square Envelope. *IEEE Transactions on Magnetics*, **2019**, 55, 1-5	2	12
80	Analytical investigation of open-circuit eddy current loss in windings of PM machines **2012**,		12
79	Adaptive Torque Ripple Suppression Methods of Three-Phase PMSM During Single-Phase Open-Circuit Fault-Tolerant Operation. *IEEE Transactions on Industry Applications*, **2020**, 56, 4955-4965	4.3	11
78	Design of a Dual-Stator Superconducting Permanent Magnet Wind Power Generator With Different Rotor Configuration. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	10
77	Open-Circuit Field Prediction of Interior Permanent-Magnet Motor Using Hybrid Field Model Accounting for Saturation. *IEEE Transactions on Magnetics*, **2019**, 55, 1-7	2	10
76	An Improved Magnetic Circuit Model of a 3-DOF Magnetic Bearing Considering Leakage and Cross-Coupling Effects. *IEEE Transactions on Magnetics*, **2017**, 53, 1-6	2	10
75	A Subdomain Model for Open-Circuit Field Prediction in Dual-Stator Consequent-Pole Permanent Magnet Machines. *IEEE Transactions on Magnetics*, **2019**, 55, 1-12	2	9
74	. *IEEE Transactions on Magnetics*, **2019**, 55, 1-8	2	9
73	A Hybrid Interior Permanent Magnet Variable Flux Memory Machine Using Two-Part Rotor. *IEEE Transactions on Magnetics*, **2019**, 55, 1-8	2	9

72	Comparison of Electromagnetic Performance of SCPM Wind Power Generators With Different Topologies. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-5	1.8	9
71	Analytical modeling of eddy current loss in retaining sleeve of surface-mounted PM machines accounting for influence of slot opening **2012**,		9
70	Analytical cogging torque prediction for surface-mounted PM machines accounting for different slot sizes and uneven positions **2011**,		9
69	Design Optimization and Performance Investigation of Linear Doubly Salient Slot Permanent Magnet Machines. *IEEE Transactions on Industry Applications*, **2019**, 55, 1524-1535	4.3	9
68	An Improved Hybrid Field Model for Calculating On-Load Performance of Interior Permanent-Magnet Motors. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 9207-9217	8.9	9
67	Influence of pole and slot number combinations on cogging torque in permanent magnet machines with static and rotating eccentricities **2013**,		7
66	Prediction Error Analysis of Finite-Control-Set Model Predictive Current Control for IPMSMs. *Energies*, **2018**, 11, 2051	3.1	6
65	Design and Analysis of a Switched Reluctance Motor with Superconducting Windings and Tapering Poles. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-4	1.8	6
64	Harmonic Torque Suppression Methods for Single-Phase Open-Circuit Fault-Tolerant Operation of PMSM Considering Third Harmonic BEMF. *IEEE Transactions on Power Electronics*, **2021**, 36, 1116-1129	7.2	6
63	Modeling of a Novel 12-Stator-Pole/10-Rotor-Tooth Doubly-Fed Flux-Switching Permanent Magnet Machine. *IEEE Transactions on Energy Conversion*, **2021**, 36, 2206-2216	5.4	6
62	Design and Analysis of Outer Rotor Permanent-Magnet Vernier Machines with Overhang Structure for In-Wheel Direct-Drive Application. *Energies*, **2019**, 12, 1238	3.1	5
61	Influence of Load Characteristics on Three-Phase Short Circuit and Demagnetization of Surface-Mounted PM Synchronous Motor. *IEEE Transactions on Industry Applications*, **2020**, 56, 2427-2440	4.3	5
60	Unbalanced magnetic force in permanent magnet machines having asymmetric windings and static/ rotating eccentricities **2013**,		5
59	Comparison of analytical models for predicting electromagnetic performance in surface-mounted permanent magnet machines **2010**,		5
58	Optimal split ratio in fractional-slot interior permanent magnet machines with non-overlapping windings **2009**,		5
57	Novel Fault-Tolerant Doubly Fed Flux Reversal Machine With Armature Windings Wound on Both Stator and Rotor Teeth. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 4780-4789	8.9	5
56	Winding Configurations and Pole/Tooth Combinations of Doubly-Fed Flux-Switching Permanent Magnet Machines. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	5
55	Improved Stator/Rotor-Pole Number Combinations for Torque Ripple Reduction in Doubly Salient PM Machines. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 10601-10611	8.9	5

54	Comparative Study of Novel Doubly-Fed Linear Switched Flux Permanent Magnet Machines With Different Primary Structures. *IEEE Access*, **2020**, 8, 69401-69412	3.5	4
53	Effect of magnet thickness on electromagnetic performance of high speed permanent magnet machines **2017**,		4
52	Investigation of cross-coupling effect of a 3-DOF magnetic bearing using magnetic circuit method **2017**,		4
51	Stator Design Aspects for Permanent Magnet Superconducting Wind Power Generators. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-5	1.8	4
50	Influence of Dimensional Parameters on Three-Phase Short Circuit and Demagnetization in Surface-Mounted PM Machines. *IEEE Transactions on Energy Conversion*, **2021**, 36, 2514-2523	5.4	4
49	Magnetic Field Prediction in Surface-Mounted PM Machines with Parallel Slot Based on a Nonlinear Subdomain and Magnetic Circuit Hybrid Model **2019**,		3
48	Electromagnetic performance of interior permanent magnet machines with eccentricity **2013**,		3
47	Analytical determination of optimal split ratio for overlapping and non-overlapping winding external rotor PM brushless machines **2011**,		3
46	Single- and Two-Phase Open-Circuit Fault Tolerant Control for Dual Three-Phase PM Motor Without Phase Shifting. *IEEE Access*, **2020**, 8, 171945-171955	3.5	3
45	Comparative Study Between Doubly Salient PM Machine With New Stator/Rotor-Pole Number Combination and Biased Flux PM Machine. *IEEE Transactions on Industry Applications*, **2021**, 57, 2354-2365	4.3	3
44	Power Perturbation Based Virtual Signal Injection Control of MTPA for IPMSM Drive System **2018**,		3
43	Investigation of cross-coupling effect and its restraining methods of a 3-DOF hybrid magnetic bearing. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2018**, 37, 2195-2210	0.7	3
42	Analysis of Dual-Armature Flux Reversal Permanent Magnet Machines with Halbach Array Magnets. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	3
41	Modeling and Design of a 3-DOF Magnetic Bearing With Toroidal Radial Control Coils. *IEEE Transactions on Magnetics*, **2019**, 55, 1-7	2	2
40	Comparative Study Between Doubly Salient PM Machine with New Stator/Rotor-Pole Number Combination and Biased Flux PM Machine **2019**,		2
39	Improved Stator/Rotor-Pole Number Combinations for Torque Ripple Reduction in Doubly Salient PM Machines **2019**,		2
38	Optimization and Comparison of Dual-Armature Flux-Switching Permanent Magnet Machines With Different Stator Core Shapes. *IEEE Transactions on Industry Applications*, **2021**, 1-1	4.3	2
37	Current Prediction Error Reduction Method of Predictive Current Control for Permanent Magnet Synchronous Motors. *IEEE Access*, **2020**, 8, 124288-124296	3.5	2

36	A Novel Axially Magnetized Vernier Permanent-Magnet Machine. *IEEE Transactions on Magnetics*, **2021**, 57, 1-5	2	2
35	Magnetic Circuit Modeling of Dual-Armature Flux-Switching Permanent Magnet Machine. *IEEE Transactions on Magnetics*, **2021**, 57, 1-13	2	2
34	Comparison of Electromagnetic Performance of Superconducting Permanent Magnet Wind Power Generator with Different Topologies **2018**,		2
33	Comparison of PMSMs with Different Rotor Structures for EV Application **2018**,		2
32	. *IEEE Transactions on Power Electronics*, **2021**, 36, 10409-10419	7.2	2
31	Comparison Between Dual-Armature Linear Switched Flux Permanent Magnet Machine and Linear Surface-Mounted Permanent Magnet Machine Considering Thermal Conditions. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	2
30	Influence of Clamping Bolts on Electromagnetic Performance of PMSM Machines and Its Restraining Methods. *IEEE Transactions on Industry Applications*, **2019**, 55, 4567-4577	4.3	1
29	Influence of Load Characteristics on Three-Phase Short Circuit and Demagnetization of Surface-Mounted PM Synchronous Motor **2019**,		1
28	A Novel Doubly-Fed Flux Reversal Linear Machine With Armature Windings Wound on Both Stator and Mover Teeth. *IEEE Access*, **2020**, 8, 35563-35571	3.5	1
27	Design and performance investigation of doubly salient slot permanent magnet linear machines **2017**,		1
26	Nonlinear Analytical Modelling for Surface-Mounted Permanent Magnet Motors with Magnet Defect Fault. *IEEE Transactions on Energy Conversion*, **2022**, 1-1	5.4	1
25	Influence of Design Parameters on Output Torque of Novel Doubly-Fed Flux-Switching Permanent Magnet Machines **2020**,		1
24	Predicting Airflow Distribution in A Radially Air-Cooled Generator by Flow Network Method **2020**,		1
23	Harmonic Analysis of Airgap Magnetic Fields in Doubly-Fed Flux Reversal Permanent Magnet Machines. *IEEE Access*, **2020**, 8, 134856-134867	3.5	1
22	Comparative Study of Novel Doubly Fed Doubly Salient PM Machines With Different Stator/Rotor-Pole Number Combinations. *IEEE Transactions on Magnetics*, **2021**, 57, 1-5	2	1
21	Influence of Magnet Height on Unbalanced Magnetic Force of Surface-Mounted Permanent Magnet Machines **2016**,		1
20	Electromagnetic Performance Comparison of Doubly Salient PM Machines with Different Stator Iron Core Segments **2019**,		1
19	An Adaptive Torque Ripple Suppression Method of Three-Phase PMSM During Single-Phase Open-Circuit Fault-Tolerant Operation **2019**,		1

18	Dynamic Modeling of Surface-Mounted Permanent Magnet Motors Considering Saturation **2019**,		1
17	Electromagnetic Analysis for Interior Permanent-Magnet Machine using Hybrid Subdomain Model. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	1
16	Influence of Clamping Bolts on Electromagnetic Performance of PMSM Machines and its Restraining Methods **2018**,		1
15	Improved Primary/Secondary Pole Number Combinations for Dual-Armature Linear Switched Flux Permanent Magnet Machines. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2589-2599	7.6	1
14	Analytical Calculation of Eccentric Surface-Mounted Permanent-Magnet Motor Accounting for Iron Saturation. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	1
13	Detection of Stator Winding Faults in PMSMs Based on Second Harmonics of Phase Instantaneous Reactive Powers. *Energies*, **2022**, 15, 3248	3.1	1
12	Comparative Analysis of Doubly Fed Flux-Reversal Permanent Magnet Machines With Different PM Arrangements and Consequent-Pole Topologies. *IEEE Transactions on Magnetics*, **2021**, 57, 1-6	2	0
11	Influence of Start Rotor Position on 3-Phase Short Circuit Current in Dual 3-Phase Surface-Mounted PM Machines. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	0
10	An Online Groundwall Insulation Monitoring Method Based on Transient Characteristics of Leakage Current for Inverter-Fed Motors. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	0
9	Comparative Study of Biased Flux PM Machines Having Different Stator Core Segments and Armature Winding Configurations. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	0
8	Improving Combined Flow and Thermal Network Accuracy for Radially Air-cooled Generators by Considering the Non-linear Resistance Characteristics of T-junction Flow. *IEEE Transactions on Industry Applications*, **2022**, 1-1	4.3	
7	Analytical Model of Electromagnetic Performance for Permanent-Magnet Vernier Machines using Nonlinear Exact Conformal Model. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	
6	Analytical prediction of electromagnetic performance of dual-stator consequent-pole PM machines based on subdomain model accounting for tooth-tips. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2021**, 40, 289-308	0.7	
5	Electromagnetic Performance Comparison of Doubly Salient PM Machines With Different Stator Iron Core Segments. *IEEE Transactions on Industry Applications*, **2021**, 57, 3699-3709	4.3	
4	Numerical investigation of the impact of wind turbine rotor on the passive cooler above nacelle. *AIP Advances*, **2021**, 11, 015248	1.5	
3	Investigation of Postdemagnetization Unbalanced Magnetic Force in PM Machines Considering Short-Circuit Faults. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2728-2742	7.6	
2	Nonlinear Analytical Model for Predicting Magnet Loss in Surface-Mounted Permanent-Magnet Motors. *IEEE Transactions on Magnetics*, **2022**, 1-1	2	
1	Investigation of Analytical Models for Surface-Mounted Permanent Magnet Motor Using Voltage Source Inverter. *IEEE Transactions on Industry Applications*, **2022**, 1-1	4.3	