

Libing Zhou

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Predictive Current Control of Permanent-Magnet Synchronous Motors With Newly Designed Cost Function. IEEE Transactions on Power Electronics, 2020, 35, 10778-10788.	7.9	68
2	Reduction of Cogging Torque and Torque Ripple in Interior PM Machines With Asymmetrical V-Type Rotor Design. IEEE Transactions on Magnetics, 2016, 52, 1-5.	2.1	66
3	Equivalent Circuit Parameters Calculation of Induction Motor by Finite Element Analysis. IEEE Transactions on Magnetics, 2014, 50, 833-836.	2.1	58
4	Influence of Design Parameters on End Effect in Long Primary Double-Sided Linear Induction Motor. IEEE Transactions on Plasma Science, 2011, 39, 192-197.	1.3	48
5	Flux Weakening Mechanism of Interior Permanent Magnet Synchronous Machines With Segmented Permanent Magnets. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	31
6	Dual-Rotor Multiphase Permanent Magnet Machine With Harmonic Injection to Enhance Torque Density. IEEE Transactions on Applied Superconductivity, 2012, 22, 5202204-5202204.	1.7	22
7	Design And Rotor Geometry Analysis Of Permanent Magnet-Assisted Synchronous Reluctance Machines Using Ferrite Magnet. Journal of Electrical Engineering, 2015, 66, 311-316.	0.7	22
8	A novel driving and control system for direct-wheel-driven electric vehicle. IEEE Transactions on Magnetics, 2005, 41, 497-500.	2.1	21
9	Enhanced Generalized Vector Control Strategy for Torque Ripple Mitigation of IPM-Type Brushless DC Motors. IEEE Transactions on Power Electronics, 2019, 34, 12038-12049.	7.9	19
10	Experimental Investigation of an Active Superconducting Current Controller. IEEE Transactions on Applied Superconductivity, 2011, 21, 1258-1262.	1.7	17
11	Harmonic current effect on torque density of a multiphase permanent magnet machine. , 2011, , .		16
12	Position sensorless control for permanent-magnet brushless DC motor based on ASIC ML4425. , 2009, , .		15
13	Design and analysis of direct-drive fractional slot permanent-magnet generator for wind turbines based on finite-element method. , 2009, , .		15
14	Cogging Torque Reduction by Stepped Slot-Opening Shift for Interior Permanent Magnet Motors. , 2019, , .		15
15	Harmonic winding factors and MMF analysis for five-phase fractional-slot concentrated winding PMSM. , 2013, , .		14
16	Design and performance analysis of magnetic slot wedge application in double-fed asynchronous motor-generator by finite-element method. IET Electric Power Applications, 2018, 12, 1040-1047.	1.8	13
17	Effect of Mg ²⁺ and Mg ²⁺ /Li ⁺ electrolytes on rechargeable magnesium batteries based on an erythrocyte-like CuS cathode. Dalton Transactions, 2020, 49, 15397-15403.	3.3	13
18	Surrogate-Assisted Optimization of a Five-Phase SPM Machine With Quasi-Trapezoidal PMs. IEEE Transactions on Industrial Electronics, 2022, 69, 202-212.	7.9	13

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19	Continuous Control Set Predictive Speed Control of SPMSM Drives With Short Prediction Horizon. IEEE Transactions on Power Electronics, 2022, 37, 10166-10177.	7.9	13
20	Standstill Time-Domain Response Parameter Estimation of the Large Synchronous Condenser in Arbitrary Rotor Position. IEEE Access, 2020, 8, 166047-166059.	4.2	11
21	Modelling and analysis of the UHVDC transmission receiving system considering 300ÂMvar novel synchronous condenser. Journal of Engineering, 2019, 2019, 955-960.	1.1	10
22	Rotor design and optimization of the single-phase line-start synchronous reluctance motor. , 2017, , .		9
23	A novel coast-down no-load characteristic test and curve conversion method for large-scale synchronous condenser. Electric Power Systems Research, 2019, 172, 77-85.	3.6	9
24	A Method of Evaluating the Stator Inter-Turn Short Circuit Fault of Synchronous Condenser. , 2018, , .		8
25	Transfer learning-based surrogate-assisted design optimisation of a five-phase magnet-shaping PMSM. IET Electric Power Applications, 2021, 15, 1281-1299.	1.8	8
26	Research on voltage regulation of a permanent magnet generator. , 2011, , .		7
27	Correction of Field Orientation Inaccuracy Caused by Resolver Periodic Error and Rotor Time Constant Variation for Indirect Field-Oriented Control Induction Motor Drives. IEEE Transactions on Industrial Electronics, 2022, 69, 4440-4450.	7.9	7
28	Finite element analysis of linear induction motor for transportation systems. , 2008, , .		6
29	The Use of Electrical Steels in Single-Phase Induction Machines and the Modified Iron Loss Test Method. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6
30	Analytical Prediction of Operational Inductances in Surface Permanent-Magnet Synchronous Machine. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	6
31	Magnet shape optimization of five-phase surface-mounted permanent magnet machine to improve torque performance based on equivalent permanent magnet method. IEEE Transactions on Electrical and Electronic Engineering, 2015, 10, S133.	1.4	6
32	Two-Level Surrogate-Assisted Transient Parameters Design Optimization of a Wound-Field Synchronous Machine. IEEE Transactions on Energy Conversion, 2022, 37, 737-747.	5.2	6
33	Cogging torque reduction in interior permanent magnet brushless dc motor with flux-concentration type rotor. , 2009, , .		5
34	Finite Element Computation of Transient Parameters of a Salient-Pole Synchronous Machine. Energies, 2017, 10, 1015.	3.1	5
35	Demagnetization Analysis and Magnet Design of Permanent Magnet Synchronous Motor for Electric Power Steering Applications. , 2020, , .		5
36	Performance calculation for a canned solid-rotor induction motor with squirrel-cage. , 2017, , .		4

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37	Design and Analysis of a Direct-Drive Permanent Magnet Vernier Motor for Electric Drilling Applications. , 2018, , .		4
38	Modeling and simulation of a permanent magnet brushless DC motor fed by PWM Z-source inverter. , 2007, , .		4
39	Parameters and performance calculation of induction motor by nonlinear circuit-coupled finite element analysis. , 2009, , .		3
40	Analysis and simulation of high power multi-phase BLDC motor. , 2011, , .		3
41	FEM simulation and harmonic torque analysis of six-phase BLDC motor. , 2011, , .		3
42	Influence of parameters on field weakening performance of induction motor. , 2011, , .		3
43	Analysis of Flux-Weakening Performances of Dual Three-Phase PM Brushless AC Motors with Alternate Winding Connections. , 2012, , .		3
44	An optimal current reference generation method for IPM brushless machines with non-sinusoidal back-EMF. , 2016, , .		3
45	A Novel Dual-Stator Permanent Magnet Vernier Machine with Magnets in Rotor and Both Stators. , 2018, , .		3
46	Multi-objective Optimization Design of PMASynRM Based on RBF Neural Network. Journal of Physics: Conference Series, 2022, 2183, 012013.	0.4	3
47	Analytical calculation of damper winding losses in large hydrogenerators. , 2014, , .		2
48	Investigation of multiphase modular stator SPM with fault tolerance. , 2014, , .		2
49	Simplified Predictive Torque Control of Five Phase Permanent Magnet Motor with Non-Sinusoidal Back-EMF. , 2018, , .		2
50	Design and Optimization of Water Cooling System for High Power Density Permanent Magnet Motor Based on Multi-physics Field Simulation. , 2018, , .		2
51	Simulation Study on Commutation Leading Angle Control of Static Frequency Converter for the Startup of Large-scale Synchronous Condenser. , 2018, , .		2
52	Dynamic Startup Characteristics Analysis of Single-winding Pole Changing Line-start Canned Solid-Rotor Induction Motor with Squirrel-cage. , 2019, , .		2
53	A Review of Integrated Modular Motor Drive for Medium-Voltage Motors. , 2021, , .		2
54	Study on Control Strategy for PMSM Fed by Differential Boost Inverter. , 2021, , .		2

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55	Theoretical analysis and numerical calculation for stability of synchronous generator-rectification system. , 2011, , .		1
56	Study on energy saving for nodding donkey oil pump. , 2011, , .		1
57	Transient parameters calculation of salient-pole synchronous machine by finite element analysis. , 2016, , .		1
58	Accurate Equivalent Circuit Modeling and Identification of Solid rotor Synchronous Machine. , 2018, , .		1
59	A Neural Network and NSGA-II Based Multi-objective Optimization Design Method for Permanent Magnet Synchronous Machine. , 2019, , .		1
60	Design and Analysis of Permanent Magnet Vernier Motors for Downhole Applications. , 2020, , .		1
61	Design of Consequent Pole Permanent Magnet Vernier Motor for Downhole Electric Drilling System. , 2021, , .		1
62	Notice of Retraction Study of a soft starter of six-phase Brushless DC motor. , 2011, , .		0
63	Analytical calculation of inductance parameter of tangentially magnetized PM motor based on basic air-gap magnetic field. , 2011, , .		0
64	Study of multiphase modular stator SPM based on phase variable model. , 2014, , .		0
65	Five-phase modular stator surface-mounted permanent magnet machine with reduced space sub-harmonics. IEEJ Transactions on Electrical and Electronic Engineering, 2015, 10, S116.	1.4	0
66	Design and analysis of a novel two-speed line-start permanent magnet motor. , 2017, , .		0
67	Predictive Current Control of Five Phase Permanent Magnet Motor with Non-sinusoidal Back-EMF. , 2018, , .		0
68	An Improved Phase Angle Prediction Method for Quasi-synchronous Grid Connection of Large-scale Synchronous Condenser. , 2018, , .		0
69	A New Parameters Identification Method for Novel Synchronous Condenser Based on Particle Swarm Algorithm and Wavelet Transform. , 2018, , .		0
70	Electrical Characteristics Analysis of LSCs Under Composite Fault. , 2021, , .		0
71	Active Disturbance Rejection Current Control for Synchronous Reluctance Motor. , 2021, , .		0
72	On-line Suppression of Harmonic Currents Caused by Inverter Non-linearity for Sensorless Control of PMSMs. , 2021, , .		0