

Jibin Zou

List of Publications by Year in descending order

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116
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116
docs citations

116
times ranked

1390
citing authors

#	ARTICLE	IF	CITATIONS
1	Sliding-Mode Sensorless Control of PMSM With Inverter Nonlinearity Compensation. IEEE Transactions on Power Electronics, 2019, 34, 10206-10220.	7.9	106
2	Analysis of Global and Local Force Harmonics and Their Effects on Vibration in Permanent Magnet Synchronous Machines. IEEE Transactions on Energy Conversion, 2017, 32, 1523-1532.	5.2	92
3	Zero Voltage Vector Sampling Method for PMSM Three-Phase Current Reconstruction Using Single Current Sensor. IEEE Transactions on Power Electronics, 2017, 32, 3797-3807.	7.9	89
4	An Improved PMSM Rotor Position Sensor Based on Linear Hall Sensors. IEEE Transactions on Magnetics, 2012, 48, 3591-3594.	2.1	81
5	Current Control of Grid-Connected Inverter With LCL Filter Based on Extended-State Observer Estimations Using Single Sensor and Achieving Improved Robust Observation Dynamics. IEEE Transactions on Industrial Electronics, 2017, 64, 5428-5439.	7.9	81
6	Optimum design of magnet shape in permanent-magnet synchronous motors. IEEE Transactions on Magnetics, 2003, 39, 3523-3526.	2.1	63
7	A Novel Open-Circuit Fault Diagnosis Method for Voltage-Source Inverters With a Single Current Sensor. IEEE Transactions on Power Electronics, 2018, 33, 8775-8786.	7.9	59
8	Current Harmonic Suppression in Dual Three-Phase Permanent Magnet Synchronous Machine With Extended State Observer. IEEE Transactions on Power Electronics, 2020, 35, 12166-12180.	7.9	58
9	Hybrid RPWM Technique Based on Modified SVPWM to Reduce the PWM Acoustic Noise. IEEE Transactions on Power Electronics, 2019, 34, 5667-5674.	7.9	55
10	Development and Analysis of Tubular Transverse Flux Machine With Permanent-Magnet Excitation. IEEE Transactions on Industrial Electronics, 2012, 59, 2198-2207.	7.9	54
11	Effect of Local Tangential Force on Vibration Performance in Fractional-Slot Concentrated Winding Permanent Magnet Synchronous Machines. IEEE Transactions on Energy Conversion, 2019, 34, 1082-1093.	5.2	48
12	Vibration Reduction for Dual-Branch Three-Phase Permanent Magnet Synchronous Motor With Carrier Phase-Shift Technique. IEEE Transactions on Power Electronics, 2020, 35, 607-618.	7.9	44
13	New Three-Phase Current Reconstruction for PMSM Drive With Hybrid Space Vector Pulsewidth Modulation Technique. IEEE Transactions on Power Electronics, 2021, 36, 662-673.	7.9	43
14	PWM Frequency Noise Cancellation in Two-Segment Three-Phase Motor Using Parallel Interleaved Inverters. IEEE Transactions on Power Electronics, 2019, 34, 2515-2525.	7.9	39
15	Design of Deep Sea Oil-Filled Brushless DC Motors Considering the High Pressure Effect. IEEE Transactions on Magnetics, 2012, 48, 4220-4223.	2.1	35
16	PWM Frequency Voltage Noise Cancellation in Three-Phase VSI Using the Novel SVPWM Strategy. IEEE Transactions on Power Electronics, 2018, 33, 8596-8606.	7.9	35
17	Analysis of Triangular Periodic Carrier Frequency Modulation on Reducing Electromagnetic Noise of Permanent Magnet Synchronous Motor. IEEE Transactions on Magnetics, 2012, 48, 4424-4427.	2.1	34
18	ILC-Based Voltage Compensation Method for PMSM Sensorless Control Considering Inverter Nonlinearity and Sampling Current DC Bias. IEEE Transactions on Industrial Electronics, 2020, 67, 5980-5989.	7.9	32

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19	Integral Sliding Mode Control Based Deadbeat Predictive Current Control for PMSM Drives With Disturbance Rejection. IEEE Transactions on Power Electronics, 2022, 37, 2845-2856.	7.9	31
20	Influence of the Permanent Magnet Magnetization Length on the Performance of a Tubular Transverse Flux Permanent Magnet Linear Machine Used for Electromagnetic Launch. IEEE Transactions on Plasma Science, 2011, 39, 241-246.	1.3	29
21	A Novel Inverter Topology for Brushless DC Motor Drive to Shorten Commutation Time. IEEE Transactions on Industrial Electronics, 2016, 63, 796-807.	7.9	26
22	A New End Windings Transposition to Reduce Windings Eddy Loss for 2 MW Direct Drive Multi-Unit PMSM. IEEE Transactions on Magnetics, 2012, 48, 3323-3326.	2.1	24
23	Numerical Analysis and Design Optimization of a Homopolar Inductor Machine Used for Flywheel Energy Storage. IEEE Transactions on Plasma Science, 2013, 41, 1290-1294.	1.3	24
24	Sliding mode observer for sensorless control of surface permanent magnet synchronous motor equipped with LC filter. IET Power Electronics, 2019, 12, 686-692.	2.1	24
25	Reduction of high-frequency vibration noise for dual-branch three-phase permanent magnet synchronous motors. Chinese Journal of Electrical Engineering, 2020, 6, 42-51.	3.4	22
26	Analysis and Computer-Aided Simulation of Cogging Force Characteristic of a Linear Electromagnetic Launcher With Tubular Transverse Flux Machine. IEEE Transactions on Plasma Science, 2011, 39, 157-161.	1.3	21
27	Optimal Design of Tubular Transverse Flux Motors With Low Cogging Forces for Direct Drive Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	18
28	Torque Performance Improvement for Slotted Limited-Angle Torque Motors by Combined SMA Application and GA Optimization. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	17
29	Analytical Modeling of 3-D Magnetic Field and Performance in Magnetic Lead Screws Accounting for Magnetization Pattern. IEEE Transactions on Industrial Electronics, 2020, 67, 4785-4796.	7.9	16
30	Modified Single-Edge SVPWM Technique to Reduce the Switching Losses and Increase PWM Harmonics Frequency for Three-Phase VSIs. IEEE Transactions on Power Electronics, 2020, 35, 10643-10653.	7.9	16
31	Enhancement of a Thrust Force of a Tubular Electromagnetic Launcher With Transverse Flux Configuration by Leakage Flux Suppression. IEEE Transactions on Plasma Science, 2013, 41, 1150-1155.	1.3	15
32	Design and pressure control of high-pressure differential magnetic fluid seals. IEEE Transactions on Magnetics, 2003, 39, 2651-2653.	2.1	14
33	An Indirect Testing Method for the Mechanical Characteristic of Multiunit Permanent-Magnet Synchronous Machines With Concentrated Windings. IEEE Transactions on Industrial Electronics, 2015, 62, 7402-7411.	7.9	14
34	Online Multiparameter Identification Method for Sensorless Control of SPMSM. IEEE Transactions on Power Electronics, 2020, 35, 10601-10613.	7.9	14
35	A Phase Current Reconstruction Approach for Three-Phase Permanent-Magnet Synchronous Motor Drive. Energies, 2016, 9, 853.	3.1	13
36	Performance Evaluation of Magnetic Lead Screws Equipped With Skewed Arc Magnets Instead of Helical Ones. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	13

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37	A Modified C-Dump Converter for BLDC Machine Used in a Flywheel Energy Storage System. IEEE Transactions on Magnetics, 2011, 47, 4175-4178.	2.1	12
38	Influence of Orifice Distribution on the Characteristics of Elastic Ring-Squeeze Film Dampers for Flywheel Energy-Storage System. IEEE Transactions on Plasma Science, 2013, 41, 1272-1279.	1.3	12
39	Analysis and Reduction of Magnet Loss by Deepening Magnets in Interior Permanent-Magnet Machines With a Pole/Slot Ratio of 2/3. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	12
40	Design Considerations of Tubular Transverse Flux Linear Machines for Electromagnetic Launch Applications. IEEE Transactions on Plasma Science, 2015, 43, 1248-1253.	1.3	12
41	Analysis and Restraining of Eddy Current Damping Effects in Rotary Voice Coil Actuators. IEEE Transactions on Energy Conversion, 2017, 32, 309-317.	5.2	12
42	Active Disturbances Rejection Controller for Position Servo Control of PMSM. , 2019, , .		12
43	Synchronous random switching frequency modulation technique based on the carrier phase shift to reduce the PWM noise. IET Power Electronics, 2020, 13, 892-897.	2.1	12
44	Hybrid periodic carrier frequency modulation technique based on modified SVPWM to reduce the PWM noise. IET Power Electronics, 2019, 12, 515-520.	2.1	11
45	An optimized I-F startup method for BEMF-based sensorless control of SPMSM. , 2017, , .		10
46	Investigation of Unbalanced Magnetic Force in Permanent Magnet Synchronous Machines With Asymmetric Design. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	10
47	A Fault-Tolerant Control Strategy for Six-Phase Transverse Flux Tubular PMLM Based on Synthetic Vector Method. IEEE Transactions on Plasma Science, 2015, 43, 1332-1338.	1.3	9
48	Nonlinear EMC Modeling and Analysis of Permanent-Magnet Slotted Limited-Angle Torque Motor. IEEE Transactions on Industrial Electronics, 2021, 68, 8507-8518.	7.9	9
49	Development of a Radial-Flux Slotted Limited-Angle Torque Motor With Asymmetrical Teeth for Torque Performance Improvement. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	8
50	An Indirect Testing Method for the Torque Ripple of Multiunit Permanent Magnet Synchronous Machines. IEEE Transactions on Industrial Electronics, 2020, 67, 2734-2743.	7.9	8
51	Flexible virtual fixture enhanced by vision and haptics for unstructured environment teleoperation. , 2013, , .		7
52	Comparative investigation of permanent magnet linear oscillatory actuators used in orbital friction vibration machine. International Journal of Applied Electromagnetics and Mechanics, 2014, 45, 581-588.	0.6	7
53	Analytic investigation on commutation angle of brushless DC motors with 120° voltage source inverter. International Journal of Applied Electromagnetics and Mechanics, 2014, 45, 219-225.	0.6	7
54	Minimization of Cogging Force in Fractional-Slot Permanent Magnet Linear Motors with Double-Layer Concentrated Windings. Energies, 2016, 9, 918.	3.1	7

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55	Core Loss Analysis of Transverse Flux Tubular Motor in Different Motion Modes. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	7
56	Time-Delay Compensation Method in PMSM Servo System based on Predictive Current Control with Sensitivity Analysis. , 2019, , .		7
57	Sensorless Control for PMSM with Novel Back EMF Observer Based on Quasi-PR Controller. , 2019, , .		7
58	Development and Analysis of a Novel Transverse Flux Permanent Magnet Linear Motor With the Concentrated Flux Mover. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.7	7
59	Sliding mode control with openâ€switch fault diagnosis and sensorless estimation based on PI observer for PMSM drive connected with an LC filter. IET Power Electronics, 2020, 13, 2334-2341.	2.1	7
60	Rotor eddy-current loss of permanent magnet machine in brushless AC and DC modes, used for deep-sea HUV's propeller. , 2009, , .		6
61	A maximum current sharing method for dual-redundancy brushless DC Motor control. , 2014, , .		6
62	Development of Equivalent 2-D Finite-Element Models for Accurate Prediction of Thrust Force in Permanent Magnet Lead Screws. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	6
63	An Efficient Thermal Computation Model of PMSM Based on FEA Results and Interpolation. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	6
64	Reduction method of high-frequency audible PWM noise for three-phase permanent magnet synchronous motors. Energy Reports, 2020, 6, 1123-1129.	5.1	6
65	Analysis and Compensation of Sampling-Delay Error in Single Current Sensor Method for PMSM Drives. IEEE Transactions on Power Electronics, 2022, 37, 5918-5927.	7.9	6
66	Analysis of Air-Gap Magnetic Field in Homopolar Inductor Alternator by Analytical Method and FEM. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	5
67	Comparative Study of Stator Configurations of a Permanent Magnet Linear Oscillating Actuator for Orbital Friction Vibration Actuator. Applied Sciences (Switzerland), 2017, 7, 630.	2.5	5
68	Analysis and Discussion of the Indirect Testing Method for the Losses of Permanent Magnet Synchronous Machines. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	5
69	Carrier frequency harmonic suppression in dual threeâ€phase permanent magnet synchronous motor system. IET Electric Power Applications, 2019, 13, 1763-1772.	1.8	5
70	Development of a Limited-Angle Torque Motor With a Moving Coil. IEEE Transactions on Magnetics, 2016, 52, 1-5.	2.1	4
71	Overâ€current protection method for PMSM VSI with small DCâ€link capacitor. IET Power Electronics, 2018, 11, 1231-1238.	2.1	4
72	Multisector Three-Phase PMSM Drive System With Low-Frequency and High-Frequency PWM Noise. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1639-1648.	5.4	4

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73	Analysis on the electromagnetic force for elliptical and circular movement of orbital friction vibration head. , 2012, , .		3
74	Estimation of the Iron Loss in Deep-Sea Permanent Magnet Motors considering Seawater Compressive Stress. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	3
75	Inductances and phase coupling analysis of tubular permanent magnet machines with transverse flux configuration. , 2014, , .		3
76	Design Criteria, Modeling, and Verification of Tubular Transverse Flux Machines for Force-to-Current Ratio Improvement in Direct Drive Applications. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	3
77	Sensorless Control for PMSM Connected with LC Filter Based on Extended State Observer. , 2018, , .		3
78	Modeling and Analysis of Limited-Angle Torque Motor Considering Nonlinear Effects. IEEE Transactions on Transportation Electrification, 2020, 6, 1457-1465.	7.8	3
79	Zeroth-Mode Vibration Suppression Through Adjustment on Phases Difference of Concentrated Force Harmonics for PMSMs. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	3
80	Reduction of the acoustic noise in PMSM drives by the periodic frequency modulation. , 2011, , .		2
81	Current limit strategy for BLDC motor drive with minimized dc-link capacitor. , 2014, , .		2
82	Inductances and Phase Coupling Analysis of Tubular Permanent Magnet Machines With Transverse Flux Configuration. IEEE Transactions on Plasma Science, 2015, 43, 1232-1235.	1.3	2
83	Analysis of an inductor magnetic lead screw. , 2017, , .		2
84	Analysis of a Novel Flux Switching Transverse Flux Permanent Magnet Linear Motor. , 2018, , .		2
85	Hybrid PWM noise cancellation technique to reduce switching losses for twoâ€segment threeâ€phase motor. IET Power Electronics, 2019, 12, 2128-2134.	2.1	2
86	Sliding-Mode-Observer-Based Open-Switch Diagnostic Method for Permanent Magnet Synchronous Motor Drive Connected with LC Filter. Energies, 2019, 12, 3288.	3.1	2
87	Electromagnetic Characteristic of a Novel Linear Flux Switching Machine With Three-Dimensional Magnetic Circuit. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	2
88	Electromagneticâ€Thermal Timesaving Coupling Analysis of a Water Cooling IPM Machine for Accurate Prediction Performance. , 2019, , .		2
89	Improved Sliding Mode Control of Permanent Magnet Linear Synchronous Motor Speed based on Variable Exponential Reaching Law. , 2021, , .		2
90	Vibration Enhancement or Weakening Effect Caused by Permanent Magnet Synchronous Motor Radial and Tangential Force Formed by Tooth Harmonics. Energies, 2022, 15, 744.	3.1	2

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91	Investigation of magnetic coupling of phases in a novel transverse flux machine by consideration of self- and mutual- inductance. , 2010, , .		1
92	Influence of orifice distribution on the characteristics of Elastic Ring Squeeze Film Dampers for Flywheel Energy Storage System. , 2012, , .		1
93	A modified sensorless method for PMSM drive with small DC-link capacitor. , 2017, , .		1
94	Improved Analytical Model of Electromagnetic Torque for Permanent Magnet Synchronous Machines. , 2018, , .		1
95	Design and Reduction of Thrust Ripple in Transverse Flux Permanent Magnet Linear Machine. , 2018, , .		1
96	A Novel Rotational Single Sheet Tester for Measurement and Modeling of Magnetic Properties of Soft Magnetic Materials Under Two-Dimensional Vector Magnetization. , 2018, , .		1
97	PWM Frequency Noise Reduction in Dual-Segment Three-Phase PMSM with Magnetically Coupled Inductors and Parallel Interleaved Inverters. , 2019, , .		1
98	High-frequency pulse width modulation noise reduction for permanent magnet synchronous motors using hybrid asymmetrical regular sampled modified space vector pulse width modulation. IET Power Electronics, 2021, 14, 717-725.	2.1	1
99	High-Frequency Vibration Noise Reduction with Carrier Phase-shift for Dual-Branch Three-Phase Permanent Magnet Synchronous Motors. , 2021, , .		1
100	Accurate Calculation of Iron Loss of High-Temperature and High-Speed Permanent Magnet Synchronous Generator under the Conditions of SVPWM Modulation. Energies, 2022, 15, 2315.	3.1	1
101	Slope approximation control method in the AC/AC converter control. , 0, , .		0
102	Research of Computation about Magnetic Fluid under Magnetic Fluid. , 2011, , .		0
103	The In-rotator of Spin Traveling Wave Pump on Magnetic Fluid. , 2011, , .		0
104	Analysis of driving capacity on traveling wave pump of magnetic fluid. , 2011, , .		0
105	A new structure of line traveling wave pump on magnetic fluid. , 2011, , .		0
106	Enhancement of thrust force of a tubular electromagnetic launcher with transverse flux configuration by leakage flux suppression. , 2012, , .		0
107	An inductance testing method for multi-unit PMSM without any auxiliary equipment. , 2014, , .		0
108	Magnetic Field Analysis of a Novel Transverse Flux Switched-Flux Permanent Magnet Linear Motor. , 2016, , .		0

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109	Design and Reduction of Thrust Ripple in Transverse Flux Permanent Magnet Linear Machine. , 2016, , .		0
110	An Indirect Testing Method for the Temperature-Rise of Multi-Unit Permanent Magnet Synchronous Machines. , 2016, , .		0
111	The Thrust Characteristics of a Novel Transverse Flux Permanent Magnet Linear Motor with the Concentrated Flux Mover. , 2018, , .		0
112	Analysis for the vibration characteristics of the induction machine in different operating status. , 2019, , .		0
113	Experimental investigation of the relationship between magnetic properties of permanent magnet against temperature and pressure coupling environment. , 2019, , .		0
114	Carrier Frequency Harmonic Suppression in Dual Three-Phase Permanent Magnet Synchronous Motor System Based on Periodic Frequency Modulation. , 2019, , .		0
115	An Optimized Start-up Switching Strategy of Sensorless Control of PMSM. , 2019, , .		0
116	Torque Ripple Reduction Based on Adaptive-Linear-Neuron Algorithm Caused by Offset Errors of Current Measurement. , 2019, , .		0