

Jibin Zou

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	Improved Sliding Mode Control of Permanent Magnet Linear Synchronous Motor Speed based on Variable Exponential Reaching Law. , 2021, , .		2
11	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
12	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
13	High-Frequency Vibration Noise Reduction with Carrier Phase-shift for Dual-Branch Three-Phase Permanent Magnet Synchronous Motors. , 2021, , .		1
14	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
15	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
16	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
17	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
18	Modeling and Analysis of Limited-Angle Torque Motor Considering Nonlinear Effects. IEEE Transactions on Transportation Electrification, 2020, 6, 1457-1465.	7.8	3

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19	Sliding mode control with open-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
20	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
21	Online Multiparameter Identification Method for Sensorless Control of SPMSM. IEEE Transactions on Power Electronics, 2020, 35, 10601-10613.	7.9	14
22	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
23	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
24	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
25	Reduction method of high-frequency audible PWM noise for three-phase permanent magnet synchronous motors. Energy Reports, 2020, 6, 1123-1129.	5.1	6
26	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
27	Hybrid PWM noise cancellation technique to reduce switching losses for two-segment three-phase motor. IET Power Electronics, 2019, 12, 2128-2134.	2.1	2
28	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
29	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
30	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
31	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
32	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
33	Carrier frequency harmonic suppression in dual three-phase permanent magnet synchronous motor system. IET Electric Power Applications, 2019, 13, 1763-1772.	1.8	5
34	Analysis for the vibration characteristics of the induction machine in different operating status. , 2019, , .		0
35	Electromagnetic-Thermal Timesaving Coupling Analysis of a Water Cooling IPM Machine for Accurate Prediction Performance. , 2019, , .		2
36	Experimental investigation of the relationship between magnetic properties of permanent magnet against temperature and pressure coupling environment. , 2019, , .		0

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37	PWM Frequency Noise Reduction in Dual-Segment Three-Phase PMSM with Magnetically Coupled Inductors and Parallel Interleaved Inverters. , 2019, , .		1
38	Carrier Frequency Harmonic Suppression in Dual Three-Phase Permanent Magnet Synchronous Motor System Based on Periodic Frequency Modulation. , 2019, , .		0
39	Time-Delay Compensation Method in PMSM Servo System based on Predictive Current Control with Sensitivity Analysis. , 2019, , .		7
40	An Optimized Start-up Switching Strategy of Sensorless Control of PMSM. , 2019, , .		0
41	Sensorless Control for PMSM with Novel Back EMF Observer Based on Quasi-PR Controller. , 2019, , .		7
42	Active Disturbances Rejection Controller for Position Servo Control of PMSM. , 2019, , .		12
43	Torque Ripple Reduction Based on Adaptive-Linear-Neuron Algorithm Caused by Offset Errors of Current Measurement. , 2019, , .		0
44	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
45	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
46	Sliding-Mode Sensorless Control of PMSM With Inverter Nonlinearity Compensation. IEEE Transactions on Power Electronics, 2019, 34, 10206-10220.	7.9	106
47	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
48	A Novel Open-Circuit Fault Diagnosis Method for Voltage-Source Inverters With Single-Current Sensor. IEEE Transactions on Power Electronics, 2018, 33, 8775-8786.	7.9	59
49	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
50	Sensorless Control for PMSM Connected with LC Filter Based on Extended State Observer. , 2018, , .		3
51	The Thrust Characteristics of a Novel Transverse Flux Permanent Magnet Linear Motor with the Concentrated Flux Mover. , 2018, , .		0
52	Improved Analytical Model of Electromagnetic Torque for Permanent Magnet Synchronous Machines. , 2018, , .		1
53	Design and Reduction of Thrust Ripple in Transverse Flux Permanent Magnet Linear Machine. , 2018, , .		1
54	Analysis of a Novel Flux Switching Transverse Flux Permanent Magnet Linear Motor. , 2018, , .		2

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55	A Novel Rotational Single Sheet Tester for Measurement and Modeling of Magnetic Properties of Soft Magnetic Materials Under Two-Dimensional Vector Magnetization. , 2018, , .		1
56	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
57	Investigation of Unbalanced Magnetic Force in Permanent Magnet Synchronous Machines With Asymmetric Design. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	10
58	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
59	Overâ€current protection method for PMSM VSI with small DCâ€link capacitor. IET Power Electronics, 2018, 11, 1231-1238.	2.1	4
60	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
61	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
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	A modified sensorless method for PMSM drive with small DC-link capacitor. , 2017, , .		1
64	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
65	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
66	Analysis of an inductor magnetic lead screw. , 2017, , .		2
67	An optimized I-F startup method for BEMF-based sensorless control of SPMSM. , 2017, , .		10
68	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
69	Magnetic Field Analysis of a Novel Transverse Flux Switched-Flux Permanent Magnet Linear Motor. , 2016, , .		0
70	Design and Reduction of Thrust Ripple in Transverse Flux Permanent Magnet Linear Machine. , 2016, , .		0
71	A Phase Current Reconstruction Approach for Three-Phase Permanent-Magnet Synchronous Motor Drive. Energies, 2016, 9, 853.	3.1	13
72	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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73	An Indirect Testing Method for the Temperature-Rise of Multi-Unit Permanent Magnet Synchronous Machines. , 2016, , .		0
74	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
75	Core Loss Analysis of Transverse Flux Tubular Motor in Different Motion Modes. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	7
76	Development of a Limited-Angle Torque Motor With a Moving Coil. IEEE Transactions on Magnetics, 2016, 52, 1-5.	2.1	4
77	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
78	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
79	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
80	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
81	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
82	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
83	Design Considerations of Tubular Transverse Flux Linear Machines for Electromagnetic Launch Applications. IEEE Transactions on Plasma Science, 2015, 43, 1248-1253.	1.3	12
84	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
85	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
86	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
87	An inductance testing method for multi-unit PMSM without any auxiliary equipment. , 2014, , .		0
88	Inductances and phase coupling analysis of tubular permanent magnet machines with transverse flux configuration. , 2014, , .		3
89	Current limit strategy for BLDC motor drive with minimized dc-link capacitor. , 2014, , .		2
90	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

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91	A maximum current sharing method for dual-redundancy brushless DC Motor control. , 2014, , .		6
92	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
93	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
94	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
95	Flexible virtual fixture enhanced by vision and haptics for unstructured environment teleoperation. , 2013, , .		7
96	Influence of orifice distribution on the characteristics of Elastic Ring Squeeze Film Dampers for Flywheel Energy Storage System. , 2012, , .		1
97	Development and Analysis of Tubular Transverse Flux Machine With Permanent-Magnet Excitation. IEEE Transactions on Industrial Electronics, 2012, 59, 2198-2207.	7.9	54
98	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
99	Enhancement of thrust force of a tubular electromagnetic launcher with transverse flux configuration by leakage flux suppression. , 2012, , .		0
100	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
101	Analysis on the electromagnetic force for elliptical and circular movement of orbital friction vibration head. , 2012, , .		3
102	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
103	An Improved PMSM Rotor Position Sensor Based on Linear Hall Sensors. IEEE Transactions on Magnetics, 2012, 48, 3591-3594.	2.1	81
104	Research of Computation about Magnetic Fluid under Magnetic Fluid. , 2011, , .		0
105	The In-rotator of Spin Traveling Wave Pump on Magnetic Fluid. , 2011, , .		0
106	Reduction of the acoustic noise in PMSM drives by the periodic frequency modulation. , 2011, , .		2
107	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
108	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

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109	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
110	Analysis of driving capacity on traveling wave pump of magnetic fluid. , 2011, , .		0
111	A new structure of line traveling wave pump on magnetic fluid. , 2011, , .		0
112	Investigation of magnetic coupling of phases in a novel transverse flux machine by consideration of self- and mutual- inductance. , 2010, , .		1
113	Rotor eddy-current loss of permanent magnet machine in brushless AC and DC modes, used for deep-sea HUV's propeller. , 2009, , .		6
114	Optimum design of magnet shape in permanent-magnet synchronous motors. IEEE Transactions on Magnetics, 2003, 39, 3523-3526.	2.1	63
115	Design and pressure control of high-pressure differential magnetic fluid seals. IEEE Transactions on Magnetics, 2003, 39, 2651-2653.	2.1	14
116	Slope approximation control method in the AC/AC converter control. , 0, , .		0