# Jibin Zou

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 88 papers | 975 citations | 18 h-index | 27 g-index |
| 116 ext. papers | 1,362 ext. citations | 3.6 avg, IF | 4.93 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 88 | 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 | 1 |
| 87 | Zeroth-Mode Vibration Suppression through Adjustment on Phases Difference of Concentrated Force Harmonics for PMSMs. *IEEE Transactions on Magnetics*, **2022**, 1-1 | 2 | |
| 86 | 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 | 0 |
| 85 | Analysis and Compensation of Sampling-Delay Error in Single Current Sensor Method for PMSM Drives. *IEEE Transactions on Power Electronics*, **2021**, 1-1 | 7.2 | 3 |
| 84 | New Three-Phase Current Reconstruction for PMSM Drive With Hybrid Space Vector Pulsewidth Modulation Technique. *IEEE Transactions on Power Electronics*, **2021**, 36, 662-673 | 7.2 | 20 |
| 83 | 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 | 5 |
| 82 | Nonlinear EMC Modeling and Analysis of Permanent-Magnet Slotted Limited-Angle Torque Motor. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 8507-8518 | 8.9 | 1 |
| 81 | Multi-Sector Three-Phase PMSM Drive System with Low High-Frequency PWM Noise. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1 | 5.6 | |
| 80 | An Efficient Thermal Computation Model of PMSM Based on FEA Results and Interpolation. *IEEE Transactions on Applied Superconductivity*, **2021**, 31, 1-4 | 1.8 | 1 |
| 79 | 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 | 2.2 | |
| 78 | Integral Sliding Mode Control Based Deadbeat Predictive Current Control for PMSM Drives with Disturbance Rejection. *IEEE Transactions on Power Electronics*, **2021**, 1-1 | 7.2 | 8 |
| 77 | Synchronous random switching frequency modulation technique based on the carrier phase shift to reduce the PWM noise. *IET Power Electronics*, **2020**, 13, 892-897 | 2.2 | 6 |
| 76 | Online Multiparameter Identification Method for Sensorless Control of SPMSM. *IEEE Transactions on Power Electronics*, **2020**, 35, 10601-10613 | 7.2 | 8 |
| 75 | Reduction of high-frequency vibration noise for dual-branch three-phase permanent magnet synchronous motors. *Chinese Journal of Electrical Engineering*, **2020**, 6, 42-51 | 4 | 16 |
| 74 | 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 | 7.2 | 4 |
| 73 | Current Harmonic Suppression in Dual Three-Phase Permanent Magnet Synchronous Machine With Extended State Observer. *IEEE Transactions on Power Electronics*, **2020**, 35, 12166-12180 | 7.2 | 29 |
| 72 | Reduction method of high-frequency audible PWM noise for three-phase permanent magnet synchronous motors. *Energy Reports*, **2020**, 6, 1123-1129 | 4.6 | 1 |

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| 71 | Modeling and Analysis of Limited-Angle Torque Motor Considering Nonlinear Effects. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 1457-1465 | 7.6 | 1 |
| 70 | 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 | 2.2 | 4 |
| 69 | . *IEEE Transactions on Power Electronics*, **2020**, 35, 607-618 | 7.2 | 17 |
| 68 | An Indirect Testing Method for the Torque Ripple of Multiunit Permanent Magnet Synchronous Machines. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2734-2743 | 8.9 | 5 |
| 67 | 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 | 8.9 | 15 |
| 66 | 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 | 8.9 | 6 |
| 65 | Sliding-Mode-Observer-Based Open-Switch Diagnostic Method for Permanent Magnet Synchronous Motor Drive Connected with LC Filter. *Energies*, **2019**, 12, 3288 | 3.1 | 1 |
| 64 | Electromagnetic Characteristic of a Novel Linear Flux Switching Machine With Three-Dimensional Magnetic Circuit. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-5 | 1.8 | 1 |
| 63 | Sliding mode observer for sensorless control of surface permanent magnet synchronous motor equipped with LC filter. *IET Power Electronics*, **2019**, 12, 686-692 | 2.2 | 16 |
| 62 | 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 | 2 |
| 61 | Hybrid periodic carrier frequency modulation technique based on modified SVPWM to reduce the PWM noise. *IET Power Electronics*, **2019**, 12, 515-520 | 2.2 | 6 |
| 60 | PWM Frequency Noise Cancellation in Two-Segment Three-Phase Motor Using Parallel Interleaved Inverters. *IEEE Transactions on Power Electronics*, **2019**, 34, 2515-2525 | 7.2 | 18 |
| 59 | Hybrid PWM noise cancellation technique to reduce switching losses for two-segment three-phase motor. *IET Power Electronics*, **2019**, 12, 2128-2134 | 2.2 | 2 |
| 58 | Carrier frequency harmonic suppression in dual three-phase permanent magnet synchronous motor system. *IET Electric Power Applications*, **2019**, 13, 1763-1772 | 1.8 | 3 |
| 57 | Electromagnetic□Thermal Timesaving Coupling Analysis of a Water Cooling IPM Machine for Accurate Prediction Performance **2019**, | | 1 |
| 56 | Time-Delay Compensation Method in PMSM Servo System based on Predictive Current Control with Sensitivity Analysis **2019**, | | 1 |
| 55 | Active Disturbances Rejection Controller for Position Servo Control of PMSM **2019**, | | 3 |
| 54 | Hybrid RPWM Technique Based on Modified SVPWM to Reduce the PWM Acoustic Noise. *IEEE Transactions on Power Electronics*, **2019**, 34, 5667-5674 | 7.2 | 28 |

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|---|---|---|---|
| 53 | 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 | 5.4 | 21 |
| 52 | . *IEEE Transactions on Power Electronics*, **2019**, 34, 10206-10220 | 7.2 | 56 |
| 51 | 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 | 1.8 | 4 |
| 50 | 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 | 7.2 | 34 |
| 49 | PWM Frequency Voltage Noise Cancelation in Three-Phase VSI Using the Novel SVPWM Strategy. *IEEE Transactions on Power Electronics*, **2018**, 33, 8596-8606 | 7.2 | 22 |
| 48 | 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 | 2 |
| 47 | Investigation of Unbalanced Magnetic Force in Permanent Magnet Synchronous Machines With Asymmetric Design. *IEEE Transactions on Magnetics*, **2018**, 54, 1-5 | 2 | 7 |
| 46 | Performance Evaluation of Magnetic Lead Screws Equipped With Skewed Arc Magnets Instead of Helical Ones. *IEEE Transactions on Magnetics*, **2018**, 54, 1-5 | 2 | 11 |
| 45 | Over-current protection method for PMSM VSI with small DC-link capacitor. *IET Power Electronics*, **2018**, 11, 1231-1238 | 2.2 | 2 |
| 44 | Design and Reduction of Thrust Ripple in Transverse Flux Permanent Magnet Linear Machine **2018**, | | 1 |
| 43 | Analysis of a Novel Flux Switching Transverse Flux Permanent Magnet Linear Motor **2018**, | | 1 |
| 42 | Zero Voltage Vector Sampling Method for PMSM Three-Phase Current Reconstruction Using Single Current Sensor. *IEEE Transactions on Power Electronics*, **2017**, 32, 3797-3807 | 7.2 | 58 |
| 41 | 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 | 8.9 | 54 |
| 40 | 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 | 2 |
| 39 | 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 | 5.4 | 49 |
| 38 | Analysis and Restraining of Eddy Current Damping Effects in Rotary Voice Coil Actuators. *IEEE Transactions on Energy Conversion*, **2017**, 32, 309-317 | 5.4 | 9 |
| 37 | An optimized I-F startup method for BEMF-based sensorless control of SPMSM **2017**, | | 5 |
| 36 | Comparative Study of Stator Configurations of a Permanent Magnet Linear Oscillating Actuator for Orbital Friction Vibration Actuator. *Applied Sciences (Switzerland)*, **2017**, 7, 630 | 2.6 | 3 |

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| 35 | A Novel Inverter Topology for Brushless DC Motor Drive to Shorten Commutation Time. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 796-807 | 8.9 | 14 |
| 34 | Optimal Design of Tubular Transverse Flux Motors With Low Cogging Forces for Direct Drive Applications. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5 | 1.8 | 11 |
| 33 | Core Loss Analysis of Transverse Flux Tubular Motor in Different Motion Modes. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-4 | 1.8 | 6 |
| 32 | Development of a Limited-Angle Torque Motor With a Moving Coil. *IEEE Transactions on Magnetics*, **2016**, 52, 1-5 | 2 | 2 |
| 31 | 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 | 3 |
| 30 | A Phase Current Reconstruction Approach for Three-Phase Permanent-Magnet Synchronous Motor Drive. *Energies*, **2016**, 9, 853 | 3.1 | 12 |
| 29 | Minimization of Cogging Force in Fractional-Slot Permanent Magnet Linear Motors with Double-Layer Concentrated Windings. *Energies*, **2016**, 9, 918 | 3.1 | 3 |
| 28 | 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 |
| 27 | 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 | 8 |
| 26 | Design Considerations of Tubular Transverse Flux Linear Machines for Electromagnetic Launch Applications. *IEEE Transactions on Plasma Science*, **2015**, 43, 1248-1253 | 1.3 | 8 |
| 25 | 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 | 6 |
| 24 | 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 |
| 23 | 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 | 8.9 | 4 |
| 22 | 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 | 0.4 | 5 |
| 21 | Estimation of the iron loss in deep-sea permanent magnet motors considering seawater compressive stress. *Scientific World Journal, The*, **2014**, 2014, 265816 | 2.2 | 2 |
| 20 | 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 | 0.4 | 7 |
| 19 | Inductances and phase coupling analysis of tubular permanent magnet machines with transverse flux configuration **2014**, | | 2 |
| 18 | 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 | 12 |

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| 17 | 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 | 6 |
| 16 | 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 | 18 |
| 15 | Flexible virtual fixture enhanced by vision and haptics for unstructured environment teleoperation **2013**, | | 7 |
| 14 | Development and Analysis of Tubular Transverse Flux Machine With Permanent-Magnet Excitation. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 2198-2207 | 8.9 | 40 |
| 13 | Design of Deep Sea Oil-Filled Brushless DC Motors Considering the High Pressure Effect. *IEEE Transactions on Magnetics*, **2012**, 48, 4220-4223 | 2 | 18 |
| 12 | 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 | 24 |
| 11 | Analysis on the electromagnetic force for elliptical and circular movement of orbital friction vibration head **2012**, | | 2 |
| 10 | 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 | 18 |
| 9 | An Improved PMSM Rotor Position Sensor Based on Linear Hall Sensors. *IEEE Transactions on Magnetics*, **2012**, 48, 3591-3594 | 2 | 58 |
| 8 | Influence of orifice distribution on the characteristics of Elastic Ring Squeeze Film Dampers for Flywheel Energy Storage System **2012**, | | 1 |
| 7 | 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 | 21 |
| 6 | 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 | 15 |
| 5 | A Modified C-Dump Converter for BLDC Machine Used in a Flywheel Energy Storage System. *IEEE Transactions on Magnetics*, **2011**, 47, 4175-4178 | 2 | 4 |
| 4 | Reduction of the acoustic noise in PMSM drives by the periodic frequency modulation **2011**, | | 1 |
| 3 | Rotor eddy-current loss of permanent magnet machine in brushless AC and DC modes, used for deep-sea HUVs propeller **2009**, | | 2 |
| 2 | Design and pressure control of high-pressure differential magnetic fluid seals. *IEEE Transactions on Magnetics*, **2003**, 39, 2651-2653 | 2 | 11 |
| 1 | Optimum design of magnet shape in permanent-magnet synchronous motors. *IEEE Transactions on Magnetics*, **2003**, 39, 3523-3526 | 2 | 42 |