

# Yinxi Jin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94  
papers

683  
citations

15  
h-index

21  
g-index

128  
ext. papers

954  
ext. citations

3.8  
avg, IF

4.34  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 94 | Improved Analytical Modeling of an Axial Flux Double-Sided Eddy-Current Brake with Slotted Conductor Disk. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1  | 8.9 | 1         |
| 93 | 3D Electromagnetic Force Characteristics and Modeling of Double-sided Air-cored Superconducting Linear Synchronous Motor for EDS Train. <i>IEEE Transactions on Transportation Electrification</i> , <b>2022</b> , 1-1     | 7.6 | 1         |
| 92 | Fluid Flow and Thermal Analysis of an Axial Flux Permanent Magnet Eddy Current Brake. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1   | 6.8 | 2         |
| 91 | Dual-Buck Full-Bridge Converter With Soft-Switching Characteristics for High-Precision Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 3296-3306                 | 5.6 | 2         |
| 90 | An Improved Surface Charge Model for the Static Force Calculation Among the Permanent Magnets in Magnetic Bearings or Magnetic Springs. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-4                      | 2   | 4         |
| 89 | Design and Analysis of a Novel Modular Electromagnetic Actuator for Micro-Nano Satellite Application. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 402-411  | 5.4 | 1         |
| 88 | A Novel Cage-Secondary Permanent Magnet Linear Eddy Current Brake with Wide Speed Range and its Analytical Model. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1                                   | 8.9 | 4         |
| 87 | Analysis and Design of a Uniform Magnetic Field Coil with a Magnetic Shield Based on an Improved Analytical Model. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1                                  | 8.9 | 5         |
| 86 | Design and Analysis of a High Thrust Linear Voice Coil Motor using for the Stiffness Test of Linear Motor Servo System. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 1-1  | 2   | 0         |
| 85 | Research on the Non-Magnetic Conductor of a PMSM Based on the Principle of Variable Exciting Magnetic Reluctance. <i>Energies</i> , <b>2021</b> , 14, 318  | 3.1 | 0         |
| 84 | Prediction of Electromagnetic Characteristics in Stator End Parts of a Turbo-Generator Based on MLP and SVR. <i>Energies</i> , <b>2021</b> , 14, 5908  | 3.1 | 0         |
| 83 | Modeling, Analysis and Development of a Current Decoupling Control High-Precision Converter under Non-Ideal Conditions. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1       | 5.6 | 0         |
| 82 | Research on Resistance Enhancement Coefficient and Thermal Dissipation of Stator Strands in Huge Synchronous Generator. <i>IEEE Access</i> , <b>2020</b> , 8, 40357-40366  | 3.5 | 2         |
| 81 | Electromagnetic Design of a Dual-Consequent-Pole Transverse Flux Motor. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 1547-1558  | 5.4 | 3         |
| 80 | Performance Analysis of Double-Sided Permanent Magnet Linear Synchronous Motor With Quasi-Sinusoidal Ring Windings. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 1465-1474                            | 5.4 | 4         |
| 79 | Analysis and Design of a Novel Magnetic Levitation Gravity Compensator With Low Passive Force Variation in a Large Vertical Displacement. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 4797-4805 | 8.9 | 7         |
| 78 | Switching and Conduction Loss Reduction of Dual-Buck Full-Bridge Inverter Through ZVT Soft-Switching Under Full-Cycle Modulation. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 5031-5046              | 7.2 | 7         |

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| 77 | Feasibility analysis of a modular uniform magnetic field coil. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 074708  | 1.7 | 2  |
| 76 | Research on the Design Method of Uniform Magnetic Field Coil Based on the MSR. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 1348-1356  | 8.9 | 32 |
| 75 | High-Precision Control for ZVS Inverter to Reduce Nonlinear Distortion of Semiconductor Voltage Drop. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 3337-3342  | 7.2 | 1  |
| 74 | Analytical Model for a Permanent Magnet Eddy-Current Brake With Transverse Edge Effect. <i>IEEE Access</i> , <b>2019</b> , 7, 61170-61179  | 3.5 | 5  |
| 73 | A New Approach to Calculate the Shielding Factor of Magnetic Shields Comprising Nonlinear Ferromagnetic Materials under Arbitrary Disturbances. <i>Energies</i> , <b>2019</b> , 12, 2048   | 3.1 | 1  |
| 72 | Design, Analysis and Test of a Hyperbolic Magnetic Field Voice Coil Actuator for Magnetic Levitation Fine Positioning Stage. <i>Energies</i> , <b>2019</b> , 12, 1830  | 3.1 | 0  |
| 71 | . <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 2987-2997   | 8.9 | 18 |
| 70 | Initial Resonant Current Control for Extra-LC Auxiliary Resonant Snubber Soft-Switching Inverter Without Filter Inductor Current Sensor. <i>IEEE Access</i> , <b>2019</b> , 7, 149237-149244   | 3.5 | 2  |
| 69 | Modelling of a Dual-side Excited Transverse Flux Permanent Magnet Linear Motor <b>2019</b> ,   |     | 1  |
| 68 | Analysis of a Novel Transverse-flux Machine with Dual-tooth-slot Core Configuration for Direct-drive Applications <b>2019</b> ,  |     | 1  |
| 67 | Modulated Initial Resonant Current Control Strategy for Extra-LC Auxiliary-Resonant-Snubber-Based Converter to Improve Output Quality in High-Precision Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 5039-5048 | 8.9 | 5  |
| 66 | A Novel HTS Flux-Reversal Linear Permanent Magnet Machine With a Lower Number of Mover Teeth and Higher Thrust Density. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5  | 1.8 | 8  |
| 65 | Force characteristic analysis of a magnetic gravity compensator with annular magnet array for magnetic levitation positioning system. <i>AIP Advances</i> , <b>2018</b> , 8, 056706  | 1.5 | 2  |
| 64 | Thrust Ripple Analysis on Toroidal-Winding Linear Permanent Magnet Vernier Machine. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 9853-9862   | 8.9 | 22 |
| 63 | Optimization of a Coil System for Generating Uniform Magnetic Fields inside a Cubic Magnetic Shield. <i>Energies</i> , <b>2018</b> , 11, 608   | 3.1 | 20 |
| 62 | Mechanism of magnetic losses variation in stator-end structures with windings extensions using space vectors. <i>IET Science, Measurement and Technology</i> , <b>2018</b> , 12, 479-485   | 1.5 |    |
| 61 | Analysis of Energy Consumption Characteristics Based on Simulation and Traction Calculation Model for the CRH Electric Motor Train Units <b>2018</b> ,   |     | 5  |
| 60 | Analysis and Design of a Maglev Permanent Magnet Synchronous Linear Motor to Reduce Additional Torque in dq Current Control. <i>Energies</i> , <b>2018</b> , 11, 556   | 3.1 | 2  |

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| 59 | A Novel Zero-Voltage- Transition Snubber Cell for Dual Buck Half Bridge Inverter <b>2018</b> ,  |     | 3  |
| 58 | Force Characteristic Analysis of a Linear Magnetic Bearing With Rhombus Magnet Array for Magnetic Levitation Positioning System. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-7              | 2   | 5  |
| 57 | An accurate real-time model of maglev planar motor based on compound Simpson numerical integration. <i>AIP Advances</i> , <b>2017</b> , 7, 056660   | 1.5 |    |
| 56 | Comparison of torque characteristic between two transverse flux motors with passive external rotor structure <b>2017</b> ,  |     | 2  |
| 55 | Investigation of a novel 2-D Halbach magnet array for magnetically levitated planar motor <b>2017</b> ,   |     | 2  |
| 54 | Comparative study of double-sided toroidal-winding linear PM vernier machines with different secondary configurations <b>2017</b> ,   |     | 3  |
| 53 | Design and Optimization of a Lorentz-Force-Driven Planar Motor. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 7  | 2.6 | 5  |
| 52 | A Real-Time Computation Model of the Electromagnetic Force and Torque for a Maglev Planar Motor with the Concentric Winding. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 98                    | 2.6 | 12 |
| 51 | Modeling and Analysis of a Transverse-Flux Flux-Reversal Motor. <i>IEEE Transactions on Energy Conversion</i> , <b>2016</b> , 31, 1121-1131   | 5.4 | 10 |
| 50 | Modeling and Analysis of a Novel Transverse-Flux Flux-Reversal Linear Motor for Long-Stroke Application. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 6238-6248                   | 8.9 | 58 |
| 49 | Single-Phase Improved Auxiliary Resonant Snubber Inverter that Reduces the Auxiliary Current and THD. <i>Journal of Power Electronics</i> , <b>2016</b> , 16, 1991-2004                                     | 0.9 | 3  |
| 48 | Electromagnetic and Mechanical Characteristics Analysis of a Flat-Type Vertical-Gap Passive Magnetic Levitation Vibration Isolator. <i>Shock and Vibration</i> , <b>2016</b> , 2016, 1-12                   | 1.1 | 2  |
| 47 | Analysis and Compensation of Dead-Time Effect of a ZVT PWM Inverter Considering the Rise- and Fall-Times. <i>Applied Sciences (Switzerland)</i> , <b>2016</b> , 6, 344                                      | 2.6 | 6  |
| 46 | Digital Controller Design Based on Active Damping Method of Capacitor Current Feedback for Auxiliary Resonant Snubber Inverter with LC Filter. <i>Applied Sciences (Switzerland)</i> , <b>2016</b> , 6, 377 | 2.6 | 5  |
| 45 | Investigation of an Ironless Permanent Magnet Linear Synchronous Motor with Cooling System. <i>Applied Sciences (Switzerland)</i> , <b>2016</b> , 6, 422  | 2.6 | 2  |
| 44 | A High-Precision Control for a ZVT PWM Soft-Switching Inverter to Eliminate the Dead-Time Effect. <i>Energies</i> , <b>2016</b> , 9, 579  | 3.1 | 5  |
| 43 | Investigation of Auxiliary Poles Optimal Design on Reduction of End Effect Detent Force for PMLSM With Typical Slot/Pole Combinations. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4        | 2   | 13 |
| 42 | A Simple Structure Passive MPPT Standalone Wind Turbine Generator System. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4   | 2   | 10 |

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|----|--|-----|----|
| 41 | Analytical Methods for Minimizing Detent Force in Long-Stator PM Linear Motor Including Longitudinal End Effects. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4                                | 2   | 20 |
| 40 | A magnetically levitated synchronous permanent magnet planar motor with concentric structure winding used for lithography machine. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 17B525               | 2.5 | 2  |
| 39 | Nonlinear Analytical Modeling of Hybrid-Excitation Double-Sided Linear Eddy-Current Brake. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4   | 2   | 15 |
| 38 | A new position loop stiffness testing method for linear motor servo systems <b>2015</b> ,  |     | 1  |
| 37 | Characteristic Analysis and Control of a Hybrid Excitation Linear Eddy Current Brake. <i>Energies</i> , <b>2015</b> , 8, 7441-7464   | 3.1 | 5  |
| 36 | Design and analysis of a bidirectional cross-linking transverse flux permanent magnet synchronous motor <b>2014</b> ,  |     | 5  |
| 35 | Analysis and Design of Hybrid Excitation Linear Eddy Current Brake. <i>IEEE Transactions on Energy Conversion</i> , <b>2014</b> , 29, 496-506  | 5.4 | 26 |
| 34 | Analysis and comparison of two two-dimensional Halbach permanent magnet arrays for magnetically levitated planar motor. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17E704                          | 2.5 | 5  |
| 33 | Modeling and analysis of a novel planar eddy current damper. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17E709   | 2.9 | 9  |
| 32 | Modeling and analysis of a maglev vibration isolation unit using rectangle Halbach permanent magnet array <b>2014</b> ,  |     | 2  |
| 31 | Levitation force control of maglev permanent synchronous planar motor based on multivariable feedback linearization method <b>2014</b> ,   |     | 2  |
| 30 | Research on a switched reluctance motor with auxiliary rotor teeth <b>2014</b> ,   |     | 1  |
| 29 | A Three-Degree-of-Freedom Short-Stroke Lorentz-Force-Driven Planar Motor Using a Halbach Permanent-Magnet Array With Unequal Thickness. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 1-1 | 8.9 | 19 |
| 28 | Modeling and Analysis of a New Cylindrical Magnetic Levitation Gravity Compensator With Low Stiffness for the 6-DOF Fine Stage. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 1-1         | 8.9 | 24 |
| 27 | Modeling and Analysis of Force Characteristics for Hybrid Excitation Linear Eddy Current Brake. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-5  | 2   | 12 |
| 26 | Modeling and design of testing platform for permanent magnet linear synchronous motor <b>2014</b> ,  |     | 2  |
| 25 | Thrust characteristic analysis and test of the synchronous permanent magnet linear motor <b>2014</b> ,   |     | 2  |
| 24 | A new inductance measurement method for permanent magnet synchronous linear motor <b>2014</b> ,  |     | 3  |

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|----|---|-----|----|
| 23 | Reducing detent force and three-phase magnetic paths unbalance of PM linear synchronous motor using modular primary iron-core structure <b>2014</b> ,                                   |     | 8  |
| 22 | Research on a Low Stiffness Passive Magnetic Levitation Gravity Compensation System with Opposite Stiffness Cancellation. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4 | 2   | 2  |
| 21 | Modeling and Design of an Integrated Winding Synchronous Permanent Magnet Planar Motor. <i>IEEE Transactions on Plasma Science</i> , <b>2013</b> , 41, 1214-1219                        | 1.3 | 36 |
| 20 | A Novel Wind Power Generator System with Automatic Maximum Power Tracking Capability. <i>IEEE Transactions on Energy Conversion</i> , <b>2013</b> , 28, 632-642                         | 5.4 | 8  |
| 19 | Bidirectional Cross-Linking Transverse Flux Permanent Magnet Synchronous Motor. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 1242-1248                                     | 2   | 29 |
| 18 | Research on loss of high speed permanent magnet synchronous motor for flywheel energy storage <b>2012</b> ,   |     | 2  |
| 17 | Sensorless control of PMSM based on state observer and the parameter error analysis <b>2012</b> ,   |     | 5  |
| 16 | Modeling and design of an integrated winding synchronous permanent magnet planar motor <b>2012</b> ,  |     | 2  |
| 15 | Research on a large thrust force permanent magnet synchronous linear motor used in space electromagnetic launcher <b>2012</b> ,   |     | 1  |
| 14 | Design of the HTS Permanent Magnet Motor With Superconducting Armature Winding. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2012</b> , 22, 5200704-5200704               | 1.8 | 15 |
| 13 | Modeling and analysis of a magnetically levitated synchronous permanent magnet planar motor. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07E706                              | 2.5 | 6  |
| 12 | Design and analysis of ironless linear electromagnetic launcher with high thrust density for space platform <b>2012</b> ,   |     | 7  |
| 11 | Characteristic Analysis of a Long-Stroke Synchronous Permanent Magnet Planar Motor. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 4658-4661                                 | 2   | 12 |
| 10 | Research on electromagnetic force of a large thrust force permanent magnet synchronous linear motor <b>2012</b> ,   |     | 1  |
| 9  | Analysis and Design of Moving-Magnet-Type Linear Synchronous Motor for Electromagnetic Launch System. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 121-126            | 1.3 | 34 |
| 8  | Analysis and Optimization of Slotless Electromagnetic Linear Launcher for Space Use. <i>IEEE Transactions on Plasma Science</i> , <b>2011</b> , 39, 127-132                             | 1.3 | 18 |
| 7  | Research of passive automatic maximum wind energy tracking wind power generation system <b>2011</b> ,   |     | 3  |
| 6  | Design of Axial and Radial Flux HTS Permanent Magnet Synchronous Motor's Rotor. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2010</b> , 20, 1060-1062                     | 1.8 | 6  |

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|---|---|---|
| 5 | The Thrust Characteristics Investigation of Double-Side Plate Permanent Magnet Linear Synchronous Motor for EML <b>2008</b> ,       | 1 |
| 4 | Design of Giant Magnetostrictive Actuator for fuel injector <b>2008</b> ,   | 2 |
| 3 | Thrust and Thermal Characteristics of Electromagnetic Launcher Based on Permanent Magnet Linear Synchronous Motors <b>2008</b> ,    | 3 |
| 2 | Experimental Evaluation of a Radial-Radial-Flux Compound-Structure Permanent-Magnet Synchronous Machine Used for HEVs <b>2008</b> , | 5 |
| 1 | Research on the Control of a Radial-Radial Flux Compound-Structure Permanent-Magnet Synchronous Machine Used for HEVs <b>2008</b> , | 3 |