# Weinong Fu

List of Publications by Year
in descending order

| | | | |
|---|---|---|---|
| 296 papers | 5,155 citations | 94433<br>37 h-index | 138484<br>58 g-index |
| 296 all docs | 296 docs citations | 296 times ranked | 3100 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | A Dynamic Core Loss Model for Soft Ferromagnetic and Power Ferrite Materials in Transient Finite Element Analysis. IEEE Transactions on Magnetics, 2004, 40, 1318-1321. | 2.1 | 323 |
| 2 | Relay Effect of Wireless Power Transfer Using Strongly Coupled Magnetic Resonances. IEEE Transactions on Magnetics, 2011, 47, 1478-1481. | 2.1 | 180 |
| 3 | A Comparative Study Between Novel Witricity and Traditional Inductive Magnetic Coupling in Wireless Charging. IEEE Transactions on Magnetics, 2011, 47, 1522-1525. | 2.1 | 162 |
| 4 | Quantitative Comparison of Novel Vernier Permanent Magnet Machines. IEEE Transactions on Magnetics, 2010, 46, 2032-2035. | 2.1 | 148 |
| 5 | Design and Comparison of Vernier Permanent Magnet Machines. IEEE Transactions on Magnetics, 2011, 47, 3280-3283. | 2.1 | 110 |
| 6 | Modeling of Solid Conductors in Two-Dimensional Transient Finite-Element Analysis and Its Application to Electric Machines. IEEE Transactions on Magnetics, 2004, 40, 426-434. | 2.1 | 100 |
| 7 | Quantitative Design and Analysis of Relay Resonators in Wireless Power Transfer System. IEEE Transactions on Magnetics, 2012, 48, 4026-4029. | 2.1 | 91 |
| 8 | A Quantitative Comparative Analysis of a Novel Flux-Modulated Permanent-Magnet Motor for Low-Speed Drive. IEEE Transactions on Magnetics, 2010, 46, 127-134. | 2.1 | 87 |
| 9 | Numerical Modeling of Magnetic Devices. IEEE Transactions on Magnetics, 2004, 40, 1803-1809. | 2.1 | 86 |
| 10 | Lateral and Angular Misalignments Analysis of a New PCB Circular Spiral Resonant Wireless Charger. IEEE Transactions on Magnetics, 2012, 48, 4522-4525. | 2.1 | 86 |
| 11 | A general cosimulation approach for coupled field-circuit problems. IEEE Transactions on Magnetics, 2006, 42, 1051-1054. | 2.1 | 76 |
| 12 | Optimization of Permanent Magnet Surface Shapes of Electric Motors for Minimization of Cogging Torque Using FEM. IEEE Transactions on Magnetics, 2010, 46, 2478-2481. | 2.1 | 74 |
| 13 | A Novel Stator and Rotor Dual PM Vernier Motor With Space Vector Pulse Width Modulation. IEEE Transactions on Magnetics, 2014, 50, 805-808. | 2.1 | 62 |
| 14 | A comprehensive approach to the solution of direct-coupled multislice model of skewed rotor induction motors using time-stepping eddy-current finite element method. IEEE Transactions on Magnetics, 1997, 33, 2265-2273. | 2.1 | 57 |
| 15 | A Novel Direct-Drive Dual-Structure Permanent Magnet Machine. IEEE Transactions on Magnetics, 2010, 46, 2036-2039. | 2.1 | 57 |
| 16 | A novel magnetic levitated bearing system for Vertical Axis Wind Turbines (VAWT). Applied Energy, 2012, 90, 148-153. | 10.1 | 54 |
| 17 | Sensitivity Analysis and Optimal Design of a Dual Mechanical Port Bidirectional Flux-Modulated Machine. IEEE Transactions on Industrial Electronics, 2018, 65, 211-220. | 7.9 | 54 |
| 18 | Robust Model Predictive Control for a Three-Phase PMSM Motor With Improved Control Precision. IEEE Transactions on Industrial Electronics, 2021, 68, 838-849. | 7.9 | 54 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 19 | Design of a Novel Parallel-Hybrid-Excited Dual-PM Machine Based on Armature Harmonics Diversity for Electric Vehicle Propulsion. IEEE Transactions on Industrial Electronics, 2019, 66, 4209-4219. | 7.9 | 53 |
| 20 | Analytical Design Study of a Novel Witricity Charger With Lateral and Angular Misalignments for Efficient Wireless Energy Transmission. IEEE Transactions on Magnetics, 2011, 47, 2616-2619. | 2.1 | 52 |
| 21 | Eddy Current Reduction in High-Speed Machines and Eddy Current Loss Analysis With Multislice Time-Stepping Finite-Element Method. IEEE Transactions on Magnetics, 2012, 48, 1007-1010. | 2.1 | 50 |
| 22 | A Novel Double-Stator Double-Rotor Brushless Electrical Continuously Variable Transmission System. IEEE Transactions on Magnetics, 2013, 49, 3909-3912. | 2.1 | 45 |
| 23 | An Improved Artificial Bee Colony Algorithm for Optimal Design of Electromagnetic Devices. IEEE Transactions on Magnetics, 2013, 49, 4811-4816. | 2.1 | 45 |
| 24 | Transient Analysis of a Magnetic Gear Integrated Brushless Permanent Magnet Machine Using Circuit-Field-Motion Coupled Time-Stepping Finite Element Method. IEEE Transactions on Magnetics, 2010, 46, 2074-2077. | 2.1 | 44 |
| 25 | Quantitative Analysis of a Wireless Power Transfer Cell With Planar Spiral Structures. IEEE Transactions on Magnetics, 2011, 47, 3200-3203. | 2.1 | 44 |
| 26 | Performance Analysis of a Novel Magnetic-Geared Tubular Linear Permanent Magnet Machine. IEEE Transactions on Magnetics, 2011, 47, 3598-3601. | 2.1 | 44 |
| 27 | Estimation of stray losses of skewed rotor induction motors using coupled 2-D and 3-D time stepping finite element methods. IEEE Transactions on Magnetics, 1998, 34, 3102-3105. | 2.1 | 43 |
| 28 | A Quantitative Comparison Analysis of Radial-Flux, Transverse-Flux, and Axial-Flux Magnetic Gears. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 43 |
| 29 | A Concept of General Flux-Modulated Electric Machines Based on a Unified Theory and Its Application to Developing a Novel Doubly-Fed Dual-Stator Motor. IEEE Transactions on Industrial Electronics, 2017, 64, 9914-9923. | 7.9 | 43 |
| 30 | A Modification of Artificial Bee Colony Algorithm Applied to Loudspeaker Design Problem. IEEE Transactions on Magnetics, 2014, 50, 737-740. | 2.1 | 41 |
| 31 | A New Relieving-DC-Saturation Hybrid Excitation Vernier Machine for HEV Starter Generator Application. IEEE Transactions on Industrial Electronics, 2020, 67, 6342-6353. | 7.9 | 41 |
| 32 | Inclusion of interbar currents in a network-field coupled time-stepping finite-element model of skewed-rotor induction motors. IEEE Transactions on Magnetics, 1999, 35, 4218-4225. | 2.1 | 40 |
| 33 | Design of a Novel Electrical Continuously Variable Transmission System Based on Harmonic Spectra Analysis of Magnetic Field. IEEE Transactions on Magnetics, 2013, 49, 2161-2164. | 2.1 | 40 |
| 34 | The relay effect on wireless power transfer using witricity. , 2010, , . | | 38 |
| 35 | A Novel Brushless Doubly Fed Generator for Wind Power Generation. IEEE Transactions on Magnetics, 2012, 48, 4172-4175. | 2.1 | 38 |
| 36 | Electrical-Continuously Variable Transmission System Based on Doubly Fed Flux-Bidirectional Modulation. IEEE Transactions on Industrial Electronics, 2017, 64, 2722-2731. | 7.9 | 38 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 37 | Dynamic Demagnetization Computation of Permanent Magnet Motors Using Finite Element Method With Normal Magnetization Curves. IEEE Transactions on Applied Superconductivity, 2010, 20, 851-855. | 1.7 | 37 |
| 38 | Design Optimization of Magnetic Gears Using Mesh Adjustable Finite-Element Algorithm for Improved Torque. IEEE Transactions on Magnetics, 2012, 48, 4156-4159. | 2.1 | 37 |
| 39 | A Quantitative Comparison Study of Power-Electronic-Driven Flux-Modulated Machines Using Magnetic Field and Thermal Field Co-Simulation. IEEE Transactions on Industrial Electronics, 2015, 62, 6076-6084. | 7.9 | 37 |
| 40 | REVIEW AND FUTURE APPLICATION OF FINITE ELEMENT METHODS IN INDUCTION MOTORS. Electric Power Components and Systems, 1998, 26, 111-125. | 0.1 | 35 |
| 41 | Analysis of Wireless Energy Transmission for Implantable Device Based on Coupled Magnetic Resonance. IEEE Transactions on Magnetics, 2012, 48, 723-726. | 2.1 | 35 |
| 42 | A Novel High Torque-Density Triple-Permanent-Magnet-Excited Magnetic Gear. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 35 |
| 43 | Design of an Electrical Continuously Variable Transmission Based Wind Energy Conversion System. IEEE Transactions on Industrial Electronics, 2016, 63, 6745-6755. | 7.9 | 34 |
| 44 | Magnetic Force Computation in Permanent Magnets Using a Local Energy Coordinate Derivative Method. IEEE Transactions on Magnetics, 2004, 40, 683-686. | 2.1 | 33 |
| 45 | A new nonlinear anisotropic model for soft magnetic materials. IEEE Transactions on Magnetics, 2006, 42, 963-966. | 2.1 | 33 |
| 46 | An Optimal Design Method for the Minimization of Cogging Torques of a Permanent Magnet Motor Using FEM and Genetic Algorithm. IEEE Transactions on Applied Superconductivity, 2010, 20, 861-864. | 1.7 | 33 |
| 47 | Design and Analysis of a Novel Axial-Flux Electric Machine. IEEE Transactions on Magnetics, 2011, 47, 4368-4371. | 2.1 | 33 |
| 48 | A novel approach to circuit-field-torque coupled time stepping finite element modeling of electric machines. IEEE Transactions on Magnetics, 2000, 36, 1886-1889. | 2.1 | 32 |
| 49 | Design of a New Relieving-DC-Saturation Hybrid Reluctance Machine for Fault-Tolerant In-Wheel Direct Drive. IEEE Transactions on Industrial Electronics, 2020, 67, 9571-9581. | 7.9 | 32 |
| 50 | Elimination of Nonphysical Solutions and Implementation of Adaptive Step Size Algorithm in Time-Stepping Finite-Element Method for Magnetic Field–Circuit–Motion Coupled Problems. IEEE Transactions on Magnetics, 2010, 46, 29-38. | 2.1 | 31 |
| 51 | Design and Analysis of a Magnetless Double-Rotor Flux Switching Motor for Low Cost Application. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 31 |
| 52 | Enhanced Nonlinear Algorithm for the Transient Analysis of Magnetic Field and Electric Circuit Coupled Problems. IEEE Transactions on Magnetics, 2009, 45, 701-706. | 2.1 | 30 |
| 53 | A Novel Magnetic-Geared Tubular Linear Machine With Halbach Permanent-Magnet Arrays for Tidal Energy Conversion. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 29 |
| 54 | A Dynamic Dual-Response-Surface Methodology for Optimal Design of a Permanent-Magnet Motor Using Finite-Element Method. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 29 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 55 | Design and analysis of novel magnetic flux‐modulated mnemonic machines. IET Electric Power Applications, 2015, 9, 469-477. | 1.8 | 28 |
| 56 | Torque Component Quantification and Design Guideline for Dual Permanent Magnet Vernier Machine. IEEE Transactions on Magnetics, 2019, 55, 1-5. | 2.1 | 28 |
| 57 | Analytical Prediction of Cogging Torque in Surface-Mounted Permanent-Magnet Motors. IEEE Transactions on Magnetics, 2009, 45, 3296-3302. | 2.1 | 27 |
| 58 | An Indirect Reference Vector-Based Model Predictive Control for a Three-Phase PMSM Motor. IEEE Access, 2020, 8, 29435-29445. | 4.2 | 27 |
| 59 | Analysis and Solution on Squeak Noise of Small Permanent-Magnet DC Brush Motors in Variable Speed Applications. IEEE Transactions on Magnetics, 2009, 45, 4752-4755. | 2.1 | 26 |
| 60 | Optimization of Array Magnetic Coil Design for Functional Magnetic Stimulation Based on Improved Genetic Algorithm. IEEE Transactions on Magnetics, 2009, 45, 4849-4852. | 2.1 | 26 |
| 61 | Analysis and Optimization of Magnetically Coupled Resonators for Wireless Power Transfer. IEEE Transactions on Magnetics, 2012, 48, 4511-4514. | 2.1 | 26 |
| 62 | Finite Element Analysis of 1 MW High Speed Wound-Rotor Synchronous Machine. IEEE Transactions on Magnetics, 2012, 48, 4650-4653. | 2.1 | 26 |
| 63 | A New Modular Relieving-DC-Saturation Vernier Reluctance Machine Excited by Zero-Sequence Current for Electric Vehicle. IEEE Transactions on Magnetics, 2019, 55, 1-5. | 2.1 | 26 |
| 64 | Analysis of indirect temperature-rise tests of induction machines using time stepping finite element method. IEEE Transactions on Energy Conversion, 2001, 16, 55-60. | 5.2 | 25 |
| 65 | Modeling Magnetic Hysteresis Under DC-Biased Magnetization Using the Neural Network. IEEE Transactions on Magnetics, 2009, 45, 3958-3961. | 2.1 | 25 |
| 66 | A Novel Solid-Rotor Induction Motor With Skewed Slits in Radial and Axial Directions and Its Performance Analysis Using Finite Element Method. IEEE Transactions on Applied Superconductivity, 2010, 20, 1089-1092. | 1.7 | 25 |
| 67 | Design and Optimization of a Novel Dual-PM Machine for Electric Vehicle Applications. IEEE Transactions on Vehicular Technology, 2020, 69, 14391-14400. | 6.3 | 25 |
| 68 | Optimal Design of Magnetic Gears With a General Pattern of Permanent Magnet Arrangement. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5. | 1.7 | 23 |
| 69 | Investigation of Hybrid-Magnet-Circuit Variable Flux Memory Machines With Different Hybrid Magnet Configurations. IEEE Transactions on Industry Applications, 2021, 57, 340-351. | 4.9 | 23 |
| 70 | Application of automatic choice of step size for time stepping finite element method to induction motors. IEEE Transactions on Magnetics, 1997, 33, 1370-1373. | 2.1 | 22 |
| 71 | Performance analysis of brushless DC motors including features of the control loop in the finite element modeling. IEEE Transactions on Magnetics, 2001, 37, 3370-3374. | 2.1 | 22 |
| 72 | An Interpolative Finite-Element Modeling and the Starting Process Simulation of a Large Solid Pole Synchronous Machine. IEEE Transactions on Magnetics, 2009, 45, 4605-4608. | 2.1 | 22 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 73 | Extension of the Concept of Windings in Magnetic Field—Electric Circuit Coupled Finite—Element Method. IEEE Transactions on Magnetics, 2010, 46, 2119-2123. | 2.1 | 22 |
| 74 | A Design Method of Magnetically Resonanting Wireless Power Delivery Systems for Bio-Implantable Devices. IEEE Transactions on Magnetics, 2011, 47, 3833-3836. | 2.1 | 22 |
| 75 | Design and Analysis of a Novel Targeted Magnetic Fluid Hyperthermia System for Tumor Treatment. IEEE Transactions on Magnetics, 2012, 48, 3262-3265. | 2.1 | 21 |
| 76 | A Novel Approach to Investigate the Hot-Spot Temperature Rise in Power Transformers. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 21 |
| 77 | An Electromagnetic Field and Electric Circuit Coupled Method for Solid Conductors in 3-D Finite-Element Method. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 21 |
| 78 | Flux-Modulated Relieving-DC-Saturation Hybrid Reluctance Machine With Synthetic Slot-PM Excitation for Electric Vehicle In-Wheel Propulsion. IEEE Transactions on Industrial Electronics, 2021, 68, 6075-6086. | 7.9 | 21 |
| 79 | A Novel Dual-Rotor Bidirectional Flux-Modulation PM Generator for Stand-Alone DC Power Supply. IEEE Transactions on Industrial Electronics, 2019, 66, 818-828. | 7.9 | 20 |
| 80 | A Novel Crossed Traveling Wave Induction Heating System and Finite Element Analysis of Eddy Current and Temperature Distributions. IEEE Transactions on Magnetics, 2009, 45, 4777-4780. | 2.1 | 19 |
| 81 | Estimation of eddy-current loss in permanent magnets of electric motors using network-field coupled multislice time-stepping finite-element method. IEEE Transactions on Magnetics, 2002, 38, 1225-1228. | 2.1 | 18 |
| 82 | An effective method to reduce the computing time of nonlinear time-stepping finite-element magnetic field computation. IEEE Transactions on Magnetics, 2002, 38, 441-444. | 2.1 | 18 |
| 83 | Optimization of an 80 kW Radial-Radial Flux Compound-Structure Permanent-Magnet Synchronous Machine Used for HEVs. IEEE Transactions on Magnetics, 2011, 47, 2399-2402. | 2.1 | 18 |
| 84 | A Novel Hybrid Resonator for Wireless Power Delivery in Bio-Implantable Devices. IEEE Transactions on Magnetics, 2012, 48, 4518-4521. | 2.1 | 18 |
| 85 | A Moving Mesh Embedded Algorithm in Finite Element Method for Optimal Design of Electromagnetic Devices. IEEE Transactions on Magnetics, 2011, 47, 2947-2950. | 2.1 | 17 |
| 86 | A Parameterized Mesh Generation and Refinement Method for Finite Element Parameter Sweeping Analysis of Electromagnetic Devices. IEEE Transactions on Magnetics, 2012, 48, 239-242. | 2.1 | 17 |
| 87 | Performance Analysis of a Novel Triple-Permanent-Magnet- Excited Magnetic Gear and Its Design Method. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 17 |
| 88 | A Modified Tabu Search Method Applied to Inverse Problems. IEEE Transactions on Magnetics, 2011, 47, 1234-1237. | 2.1 | 16 |
| 89 | Finite-Element Analysis and Corresponding Experiments of Resonant Energy Transfer for Wireless Transmission Devices. IEEE Transactions on Magnetics, 2011, 47, 1074-1077. | 2.1 | 16 |
| 90 | Hysteresis Effects of Laminated Steel Materials on Detent Torque in Permanent Magnet Motors. IEEE Transactions on Magnetics, 2011, 47, 3594-3597. | 2.1 | 16 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 91 | A Post-Assembly Magnetization Method of Direct-Start Interior Permanent Magnet Synchronous Motors and Its Finite-Element Analysis of Transient Magnetic Field. IEEE Transactions on Magnetics, 2012, 48, 3238-3241. | 2.1 | 16 |
| 92 | Analysis of Wireless Power Transfer System Based on 3-D Finite-Element Method Including Displacement Current. IEEE Transactions on Magnetics, 2012, 48, 3692-3695. | 2.1 | 16 |
| 93 | Reduction of Computing Time for Steady-State Solutions of Magnetic Field and Circuit Coupled Problems Using Time-Domain Finite-Element Method. IEEE Transactions on Magnetics, 2012, 48, 3363-3366. | 2.1 | 16 |
| 94 | Study and Experimental Verification of a Rectangular Printed-Circuit-Board Wireless Transfer System for Low Power Devices. IEEE Transactions on Magnetics, 2012, 48, 3013-3016. | 2.1 | 16 |
| 95 | A Hybrid Optimal Design Strategy of Wireless Magnetic-Resonant Charger for Deep Brain Stimulation Devices. IEEE Transactions on Magnetics, 2013, 49, 2145-2148. | 2.1 | 16 |
| 96 | Numerical Analysis and Optimization of Lobe-Type Magnetic Shielding in a 334 MVA Single-Phase Auto-Transformer. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 16 |
| 97 | Hysteresis Modeling in Transient Analysis of Electric Motors With AlNiCo Magnets. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 16 |
| 98 | Application of Edge Elements to 3-D Electromagnetic Field Analysis Accounting for Both Inductive and Capacitive Effects. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 16 |
| 99 | Numerical Study on Natural Convective Heat Transfer of Nanofluids in Disc-Type Transformer Windings. IEEE Access, 2019, 7, 51267-51275. | 4.2 | 16 |
| 100 | A Novel High-Order-Harmonic Winding Design Method for Vernier Reluctance Machine With DC Coils Across Two Stator Teeth. IEEE Transactions on Industrial Electronics, 2022, 69, 7696-7707. | 7.9 | 16 |
| 101 | A dynamic model of the disk drive spindle motor and its applications. IEEE Transactions on Magnetics, 2002, 38, 973-976. | 2.1 | 15 |
| 102 | A Novel Adaptive Mesh Finite Element Method for Nonlinear Magnetic Field Analysis. IEEE Transactions on Magnetics, 2013, 49, 1777-1780. | 2.1 | 15 |
| 103 | A Novel Vernier Reluctance Machine Excited by Slot PMs and Zero-Sequence Current for Electric Vehicle. IEEE Transactions on Magnetics, 2019, 55, 1-5. | 2.1 | 15 |
| 104 | Design and Optimization of a Dual-Permanent-Magnet Vernier Machine With a Novel Optimization Model. IEEE Transactions on Magnetics, 2020, 56, 1-5. | 2.1 | 15 |
| 105 | A multislice coupled finite-element method with uneven slice length division for the simulation study of electric machines. IEEE Transactions on Magnetics, 2003, 39, 1566-1569. | 2.1 | 14 |
| 106 | A Novel Magnetic Gear With Intersecting Axes. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 14 |
| 107 | A unified theory of flux-modulated electric machines. , 2016, , . | | 14 |
| 108 | Multi-Objective Optimization of a Direct-Drive Dual-Structure Permanent Magnet Machine. IEEE Transactions on Magnetics, 2019, 55, 1-4. | 2.1 | 14 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 109 | Direct modeling of the starting process of skewed rotor induction motors using a multi-slice technique. IEEE Transactions on Energy Conversion, 1999, 14, 1253-1258. | 5.2 | 13 |
| 110 | FEM Simulations and Experiments for the Advanced Witricity Charger With Compound Nano-TiO$_{2}$ Interlayers. IEEE Transactions on Magnetics, 2011, 47, 4449-4452. | 2.1 | 12 |
| 111 | Design and Analysis of Novel Focused Hyperthermia Devices. IEEE Transactions on Magnetics, 2012, 48, 3254-3257. | 2.1 | 12 |
| 112 | Control of a Dual-Stator Flux-Modulated Motor for Electric Vehicles. Energies, 2016, 9, 517. | 3.1 | 12 |
| 113 | Heat transfer comparison of nanofluid filled transformer and traditional oil-immersed transformer. AIP Advances, 2018, 8, . | 1.3 | 12 |
| 114 | Sensitivity Analysis and Design Optimization of a New Hybrid-Excited Dual-PM Generator With Relieving-DC-Saturation Structure for Stand-Alone Wind Power Generation. IEEE Transactions on Magnetics, 2020, 56, 1-5. | 2.1 | 12 |
| 115 | A Flexible Approach for Brush-Commutation Machine Simulation. IEEE Transactions on Magnetics, 2008, 44, 1542-1545. | 2.1 | 11 |
| 116 | Design of Position Detection Strategy of Sensorless Permanent Magnet Motors at Standstill Using Transient Finite-Element Analysis. IEEE Transactions on Magnetics, 2009, 45, 4668-4671. | 2.1 | 11 |
| 117 | Robust Optimization Using a Methodology Based on Cross Entropy Methods. IEEE Transactions on Magnetics, 2011, 47, 1286-1289. | 2.1 | 11 |
| 118 | A Parameterized Mesh Technique for Finite Element Magnetic Field Computation and Its Application to Optimal Designs of Electromagnetic Devices. IEEE Transactions on Magnetics, 2011, 47, 2943-2946. | 2.1 | 11 |
| 119 | Power Balanced Electromagnetic Torque Computation in Electric Machines Based on Energy Conservation in Finite-Element Method. IEEE Transactions on Magnetics, 2013, 49, 2385-2388. | 2.1 | 11 |
| 120 | Development of a Novel Brushless Power Split Transmission System for Wind Power Generation Application. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 11 |
| 121 | A Novel Structure of Dual-Stator Hybrid Excitation Synchronous Motor. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5. | 1.7 | 11 |
| 122 | Comparative Analysis of Different Permanent Magnet Arrangements in a Novel Flux Modulated Electric Machine. IEEE Access, 2021, 9, 14437-14445. | 4.2 | 11 |
| 123 | Design and analysis of practical induction motors. IEEE Transactions on Magnetics, 2001, 37, 3663-3667. | 2.1 | 10 |
| 124 | Matrix Analysis of 2-D Eddy-Current Magnetic Fields. IEEE Transactions on Magnetics, 2009, 45, 3343-3350. | 2.1 | 10 |
| 125 | A Fast Algorithm for Frequency-Domain Solutions of Electromagnetic Field Computation of Electric Devices Using Time-Domain Finite-Element Method. IEEE Transactions on Magnetics, 2013, 49, 530-535. | 2.1 | 10 |
| 126 | Adaptive Discontinuous Galerkin Method for Transient Analysis of Eddy Current Fields in High-Speed Rotating Solid Rotors. IEEE Transactions on Magnetics, 2014, 50, 589-592. | 2.1 | 10 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 127 | Design Optimization of a Novel Doubly Fed Dual-Rotor Flux-Modulated Machine for Hybrid Electric Vehicles. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 10 |
| 128 | Design Optimization of a Permanent Magnet Motor Derived From a General Magnetization Pattern. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 10 |
| 129 | Design and Analysis of a New HTS Double-Stator Doubly Fed Wind Generator. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4. | 1.7 | 10 |
| 130 | Design and Comparison of Vernier Permanent-Magnet Machines With Different Winding Types Based on Fractional-Slot Windings. IEEE Transactions on Magnetics, 2021, 57, 1-5. | 2.1 | 10 |
| 131 | Generation and rotation of 3-D finite element mesh for skewed rotor induction motors using extrusion technique. IEEE Transactions on Magnetics, 1999, 35, 1266-1269. | 2.1 | 9 |
| 132 | Reduction of Numerical Errors of Time-Stepping Finite Element Analysis for Dynamic Simulation of Electric Machines. IEEE Transactions on Applied Superconductivity, 2010, 20, 1864-1868. | 1.7 | 9 |
| 133 | A Mesh-Insensitive Methodology for Magnetic Force Computation in Finite-Element Analysis. IEEE Transactions on Magnetics, 2012, 48, 287-290. | 2.1 | 9 |
| 134 | A Power-Balanced Time-Stepping Finite Element Method for Transient Magnetic Field Computation. IEEE Transactions on Magnetics, 2012, 48, 291-294. | 2.1 | 9 |
| 135 | A New Dual-Stator Bidirectional-Modulated PM Machine and Its Optimization. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 9 |
| 136 | A Novel Multiphase Brushless Power-Split Transmission System for Wind Power Generation. IEEE Transactions on Magnetics, 2016, 52, 1-7. | 2.1 | 9 |
| 137 | Applying Response Surface Method to Oil-Immersed Transformer Cooling System for Design Optimization. IEEE Transactions on Magnetics, 2018, 54, 1-5. | 2.1 | 9 |
| 138 | An incremental method for studying the steady state performance of induction motors using time stepping finite element model. IEEE Transactions on Magnetics, 1997, 33, 1374-1377. | 2.1 | 8 |
| 139 | Complexity Analysis of EEG Under Magnetic Stimulation at Acupoints. IEEE Transactions on Applied Superconductivity, 2010, 20, 1029-1032. | 1.7 | 8 |
| 140 | An Equivalent Parameter Extraction Method of Transient Electric Circuit and Magnetic Field Coupled Problems Based on Sensitivity Computation of System Equations. IEEE Transactions on Magnetics, 2011, 47, 2068-2075. | 2.1 | 8 |
| 141 | An Adaptive Mesh Method in Transient Finite Element Analysis of Magnetic Field Using a Novel Error Estimator. IEEE Transactions on Magnetics, 2012, 48, 4160-4163. | 2.1 | 8 |
| 142 | An Efficient Parameterized Mesh Method for Large Shape Variation in Optimal Designs of Electromagnetic Devices. IEEE Transactions on Magnetics, 2012, 48, 4507-4510. | 2.1 | 8 |
| 143 | A Convenient Mesh Rotation Method of Finite Element Analysis Using Sub-Matrix Transformation Approach. IEEE Transactions on Magnetics, 2012, 48, 303-306. | 2.1 | 8 |
| 144 | Comparison Study of Finite Element Methods to Deal With Floating Conductors in Electric Field. IEEE Transactions on Magnetics, 2012, 48, 351-354. | 2.1 | 8 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 145 | A Novel Rotor Position Detection Method for Sensorless Control of Magnetic-Geared Permanent-Magnet Brushless Motor. IEEE Transactions on Magnetics, 2013, 49, 3961-3964. | 2.1 | 8 |
| 146 | Electromagnetic Performance Analysis of Novel Flux-Regulatable Permanent Magnet Machines for Wide Constant-Power Speed Range Operation. Energies, 2015, 8, 13971-13984. | 3.1 | 8 |
| 147 | A Novel Hybrid-Flux Magnetic Gear and Its Performance Analysis Using the 3-D Finite Element Method. Energies, 2015, 8, 3313-3327. | 3.1 | 8 |
| 148 | An Improved Evolution Strategy and Its Application to Inverse Scattering in Microwave Imaging. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 8 |
| 149 | Design and Sensorless Control of a Novel Axial-Flux Permanent Magnet Machine for In-Wheel Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5. | 1.7 | 8 |
| 150 | Design and Analysis of a Shoe-Embeded Power Harvester Based on Magnetic Gear. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 8 |
| 151 | A New Stable Full-Wave Maxwell Solver for All Frequencies. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 8 |
| 152 | Design and Analysis of a Novel Synthetic Slot Dual-PM Machine. IEEE Access, 2019, 7, 29916-29923. | 4.2 | 8 |
| 153 | Numerical and Experimental Study on Design Optimization of Hybrid Metamaterial Slab for Wireless Power Transmission. IEEE Access, 2020, 8, 82700-82708. | 4.2 | 8 |
| 154 | Design and Analysis of a Novel Double-Stator Double-Rotor Motor Drive System for In-Wheel Direct Drive of Electric Vehicles. Machines, 2022, 10, 27. | 2.2 | 8 |
| 155 | Error Estimation for the Computation of Force Using the Virtual Work Method on Finite Element Models. IEEE Transactions on Magnetics, 2009, 45, 1388-1391. | 2.1 | 7 |
| 156 | Complexity Analysis of Magnetic Stimulation at the Acupoint of Zusanli (St36) on EEG. IEEE Transactions on Magnetics, 2009, 45, 4829-4832. | 2.1 | 7 |
| 157 | An advanced double-layer combined windings transverse flux system for thin strip induction heating. Journal of Applied Physics, 2011, 109, 07E511. | 2.5 | 7 |
| 158 | An adaptive degrees-of-freedom finite-element method for transient magnetic field analysis. IEEE Transactions on Magnetics, 2013, 49, 5724-5729. | 2.1 | 7 |
| 159 | Design Optimizations of Electromagnetic Devices Using Sensitivity Analysis and Tabu Algorithm. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 7 |
| 160 | Magnetic Circuit Analysis for a Magnetless Double-Rotor Flux Switching Motor. IEEE Transactions on Magnetics, 2015, 51, 1-5. | 2.1 | 7 |
| 161 | A Novel Coulomb-Gauged Magnetic Vector Potential Formulation for 3-D Eddy-Current Field Analysis Using Edge Elements. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 7 |
| 162 | Integrated RBF network based estimation strategy of the output characteristics of brushless DC motors. IEEE Transactions on Magnetics, 2002, 38, 1033-1036. | 2.1 | 6 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 163 | Design and Analysis of a Novel Traveling Wave Induction Heating System With Magnetic Slot Wedges for Heating Moving Thin Strips. IEEE Transactions on Magnetics, 2010, 46, 2175-2178. | 2.1 | 6 |
| 164 | A novel axial-flux electric machine for in-wheel gearless drive in plug-in hybrid electric vehicles. , 2010, , . | | 6 |
| 165 | Optimal design of energy transmission system for implantable device base on WiTricity. , 2010, , . | | 6 |
| 166 | Polymer-bonded NiZn ferrite magnetic cores mixed with titanium (IV) isopropoxide (C12H28O4Ti). Journal of Applied Physics, 2011, 109, 07A514. | 2.5 | 6 |
| 167 | A Population-Based Incremental Learning Vector Algorithm for Multiobjective Optimal Designs. IEEE Transactions on Magnetics, 2011, 47, 1306-1309. | 2.1 | 6 |
| 168 | Enhanced Acoustic Emission Detection Induced by Electromagnetic Stimulation With External Magnetic Field. IEEE Transactions on Magnetics, 2011, 47, 3284-3287. | 2.1 | 6 |
| 169 | A novel resonant inductive magnetic coupling wireless charger with TiO2 compound interlayer. Journal of Applied Physics, 2011, 109, 07E502. | 2.5 | 6 |
| 170 | Application of Multi-Stage Diagonally-Implicit Runge-Kutta Algorithm to Transient Magnetic Field Computation Using Finite Element Method. IEEE Transactions on Magnetics, 2012, 48, 279-282. | 2.1 | 6 |
| 171 | An Operator Splitting Finite Element Method for Eddy-Current Field Analysis in High-Speed Rotating Solid Conductors. IEEE Transactions on Magnetics, 2013, 49, 3171-3174. | 2.1 | 6 |
| 172 | A Novel Triple-Permanent-Magnet-Excited Hybrid-Flux Magnetic Gear and Its Design Method Using 3-D Finite Element Method. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 6 |
| 173 | A Novel Fast Remesh-Free Mesh Deformation Method and Its Application to Optimal Design of Electromagnetic Devices. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 6 |
| 174 | A New Hybrid-Excited Electric Continuous Variable Transmission System. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 6 |
| 175 | Nonlinear Convergence Acceleration of Magnetic Field Computation. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 6 |
| 176 | Optimal Structure Design of Permanent Magnet Motors Based on a General Pattern of Rotor Topologies. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 6 |
| 177 | Fast Numerical Method for Computing Resonant Characteristics of Electromagnetic Devices Based on Finite-Element Method. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 6 |
| 178 | A dual permanent magnet machine for high-torque low-speed applications. , 2017, , . | | 6 |
| 179 | Topology Exploration and Torque Component Analysis of Double Stator Biased Flux Machines Based on Magnetic Field Modulation Mechanism. IEEE Transactions on Energy Conversion, 2018, 33, 584-593. | 5.2 | 6 |
| 180 | Comparative Study of Relieving-DC-Saturation Hybrid Excited Vernier Machine With Different Rotor Pole Designs for Wind Power Generation. IEEE Access, 2020, 8, 198900-198911. | 4.2 | 6 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 181 | Multiple 3-Phase PMA-SynRM With Delta Windings for Enhanced Fault Tolerance. IEEE Transactions on Industrial Electronics, 2023, 70, 1094-1104. | 7.9 | 6 |
| 182 | Solution of a 3-D complex finite element model of skewed rotor induction motors using an iterative method. IEEE Transactions on Energy Conversion, 1999, 14, 1247-1252. | 5.2 | 5 |
| 183 | An Improved Nodal Method for Circuit and Multi-Slice Magnetic Field Coupled Finite Element Analysis. Electric Power Components and Systems, 2004, 32, 671-689. | 1.8 | 5 |
| 184 | A 2-Dimensional Finite-Element Method for Transient Magnetic Field Computation Taking Into Account Parasitic Capacitive Effects. IEEE Transactions on Applied Superconductivity, 2010, 20, 1869-1873. | 1.7 | 5 |
| 185 | Design and FEM Analysis of a New Distributed Vernier Traveling Wave Induction Heater for Heating Moving Thin Strips. IEEE Transactions on Magnetics, 2011, 47, 2612-2615. | 2.1 | 5 |
| 186 | Analytical study and corresponding experiments for a new resonant magnetic charger with circular spiral coils. Journal of Applied Physics, 2012, 111, 07E704. | 2.5 | 5 |
| 187 | Precise Magnetic Field Modeling Techniques of Rotary Machines Using Transient Finite-Element Method. IEEE Transactions on Magnetics, 2012, 48, 4192-4195. | 2.1 | 5 |
| 188 | A Position Detection Strategy for Sensorless Surface Mounted Permanent Magnet Motors at Low Speed Using Transient Finite-Element Analysis. IEEE Transactions on Magnetics, 2012, 48, 1003-1006. | 2.1 | 5 |
| 189 | Instantaneous Power Balance Analysis in Finite-Element Method of Transient Magnetic Field and Circuit Coupled Computation. IEEE Transactions on Magnetics, 2013, 49, 1561-1564. | 2.1 | 5 |
| 190 | A Novel Mesh Morphing Technique for Large Shape Deformation and Its Application to Optimal Design Problems. IEEE Transactions on Magnetics, 2013, 49, 2165-2168. | 2.1 | 5 |
| 191 | A feasibility study on a new brushless and gearless contra-rotating permanent magnet wind power generator. Journal of Applied Physics, 2014, 115, . | 2.5 | 5 |
| 192 | Iron Loss Separation in High Frequency Using Numerical Techniques. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 5 |
| 193 | A Mesh Deformation Algorithm and Its Application in Optimal Motor Design. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 5 |
| 194 | A Novel Formulation With Coulomb Gauge for 3-D Magnetostatic Problems Using Edge Elements. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 5 |
| 195 | Design and comparison of electrically excited double rotor flux switching motor drive systems for automotive applications. CES Transactions on Electrical Machines and Systems, 2018, 2, 191-199. | 3.5 | 5 |
| 196 | Analysis and Design of a New Relieving-DC-Saturation Transverse-Flux Tubular Motor With Complementary Magnetic Circuit. IEEE Transactions on Magnetics, 2021, 57, 1-5. | 2.1 | 5 |
| 197 | Study on the PWM Ripple Current Based Turn Fault Detection for Interior PM Machine. IEEE Transactions on Transportation Electrification, 2021, 7, 1537-1547. | 7.8 | 5 |
| 198 | Comparative Analysis and Optimization of Novel Pulse Injection Sensorless Drive Methods for Fault-Tolerant DC Vernier Reluctance Machine. IEEE Transactions on Power Electronics, 2022, 37, 13566-13576. | 7.9 | 5 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 199 | Design and optimization of yokeless magnetic gear with asymmetric Halbach permanent magnet array for electric vehicle powertrain. IET Renewable Power Generation, 2022, 16, 2223-2232. | 3.1 | 5 |
| 200 | A Versatile Finite Element Model of Electric Machines. Electric Power Components and Systems, 2003, 31, 941-966. | 1.8 | 4 |
| 201 | An Efficient Two-Grid Finite-Element Method of 3-D Nonlinear Magnetic-Field Computation. IEEE Transactions on Magnetics, 2009, 45, 4797-4800. | 2.1 | 4 |
| 202 | Application of Shell Element Method to 3-D Finite-Element Computation of the Force on One Body in Contact With Others. IEEE Transactions on Magnetics, 2010, 46, 3893-3898. | 2.1 | 4 |
| 203 | Finite element analysis and corresponding experiments of resonant energy transmission for wireless transmission devices using witricity. , 2010, , . |  | 4 |
| 204 | A Characteristic Galerkin Method for Eddy-Current Field Analysis in High-Speed Rotating Solid Conductors. IEEE Transactions on Magnetics, 2012, 48, 4634-4637. | 2.1 | 4 |
| 205 | A Local Discontinuous Galerkin Method for Eddy Current Field Analysis in High-Speed Moving Conductors. IEEE Transactions on Magnetics, 2012, 48, 251-254. | 2.1 | 4 |
| 206 | A Sensitivity Analysis Method for Equivalent Parameter Extraction of Transient Magnetic Field With Internal Circuits. IEEE Transactions on Magnetics, 2012, 48, 295-298. | 2.1 | 4 |
| 207 | Novel Electrical Continuously Variable Transmission System and its Numerical Model. IEEE Transactions on Magnetics, 2014, 50, 757-760. | 2.1 | 4 |
| 208 | Electromagnetic Performance Analysis of Novel HTS Doubly Fed Flux-Modulated Machines. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4. | 1.7 | 4 |
| 209 | A novel axial flux stator and rotor dual permanent magnet machine. CES Transactions on Electrical Machines and Systems, 2017, 1, 140-145. | 3.5 | 4 |
| 210 | A novel stator and rotor dual PM flux modulated machine. Chinese Journal of Electrical Engineering, 2017, 3, 10-15. | 3.4 | 4 |
| 211 | An adaptive degrees-of-freedom finite element method for 3-D nonlinear magneto-thermal field analysis. Numerical Heat Transfer; Part A: Applications, 2019, 75, 523-532. | 2.1 | 4 |
| 212 | A Multiscale Topology Optimization Methodology Based on Sequential Element Rejectionâ€"Admission and Boundary Element Evolvement. IEEE Transactions on Magnetics, 2019, 55, 1-4. | 2.1 | 4 |
| 213 | A Modified Shuffled Frog Leaping Algorithm for the Topology Optimization of Electromagnet Devices. Applied Sciences (Switzerland), 2020, 10, 6186. | 2.5 | 4 |
| 214 | A Method to Improve Torque Density in a Flux-Switching Permanent Magnet Machine. Energies, 2020, 13, 5308. | 3.1 | 4 |
| 215 | Novel DC-Saturation-Relieving Hybrid Reluctance Machine With Skewed Permanent Magnets for Electric Vehicle Propulsion. IEEE Transactions on Magnetics, 2022, 58, 1-6. | 2.1 | 4 |
| 216 | A Novel Winding Switching Control Strategy of a Consequent-Pole Ferrite-PM Hybrid-Excited Machine for Electric Vehicle Application. IEEE Transactions on Magnetics, 2022, 58, 1-5. | 2.1 | 4 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 217 | A Novel Slot-PM Assisted Complementary-Rotor Doubly Salient Machine With Enhanced Torque Performance. IEEE Transactions on Industrial Electronics, 2022, 69, 11499-11509. | 7.9 | 4 |
| 218 | Novel Steel-Bar Starting Cage Line-Start Permanent Magnet Machine With Spoke-Type Insulation Layers. IEEE Transactions on Magnetics, 2022, 58, 1-5. | 2.1 | 4 |
| 219 | Solution of a 3-D complex finite element model of skewed rotor induction motors using an iterative method. , 0, , . | | 3 |
| 220 | A finite element method for transient analysis of power electronic motor drives including parasitic capacitive effect and external circuit. , 2008, , . | | 3 |
| 221 | Novel Dual-Layer and Triple-Layer Permanent-Magnet-Excited Synchronous Motors. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 3 |
| 222 | A Stable Iteration Procedure of Newton's Method in Finite-Element Computation of Nonlinear Magnetic Field Problems With a Vector Hysteresis Model. IEEE Transactions on Magnetics, 2017, 53, 1-6. | 2.1 | 3 |
| 223 | An adjustable degrees-of-freedom numerical method for computing the temperature distribution of electrical devices. Electrical Engineering, 2019, 101, 507-516. | 2.0 | 3 |
| 224 | Analysis of Flux Regulation Principle in a Novel Hybrid-Magnet-Circuit Variable Flux Memory Machine. , 2019, , . | | 3 |
| 225 | Analysis and design of nanofluid-filled power transformers. Electrical Engineering, 2020, 102, 321-329. | 2.0 | 3 |
| 226 | Multilevel Optimization of a Novel Dual-PM Dual-Electric Port Generator for Hybrid AC/DC System. IEEE Transactions on Magnetics, 2021, 57, 1-5. | 2.1 | 3 |
| 227 | Fast Magnetic Field Approximation Method for Simulation of Coaxial Magnetic Gears Using AI. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2023, 4, 400-408. | 3.9 | 3 |
| 228 | Thermal study of induction motors by phantom loading using multi-slice time stepping finite element modeling. IEEE Transactions on Magnetics, 1999, 35, 1606-1609. | 2.1 | 2 |
| 229 | A comparative study between witricity and traditional inductive coupling in wireless energy transmission. , 2010, , . | | 2 |
| 230 | Modeling and design of a wireless power transfer cell with planar spiral structures. , 2010, , . | | 2 |
| 231 | Numerical Analysis of Inverse Scattering in Microwave Imaging. IEEE Transactions on Magnetics, 2011, 47, 1482-1485. | 2.1 | 2 |
| 232 | A neural network combined with a three-dimensional finite element method applied to optimize eddy current and temperature distributions of traveling wave induction heating system. Journal of Applied Physics, 2011, 109, 07E522. | 2.5 | 2 |
| 233 | A Local Discontinuous Galerkin Method for Numerical Computation of Waveguide Eigenvalue Problems in Polar Coordinates. IEEE Transactions on Magnetics, 2012, 48, 255-258. | 2.1 | 2 |
| 234 | Extension of Time-Domain Finite Element Method to Nonlinear Frequency-Sweeping Problems. IEEE Transactions on Magnetics, 2013, 49, 1781-1784. | 2.1 | 2 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 235 | Imbalanced Force in Permanent Magnet Brushless Motors With Magnetic and/or Electric Asymmetries. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 2 |
| 236 | Data structures and program techniques of finite element methods for analysis and optimization of electric devices. International Journal of Applied Electromagnetics and Mechanics, 2015, 47, 875-883. | 0.6 | 2 |
| 237 | A Methodology Based on Mesh Morphing Algorithm and Improved Tabu Algorithm for Non-linear Inverse Scattering. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 2.1 | 2 |
| 238 | Numerical study on nanofluids natural convection heat transfer inside power transformer windings. AIP Advances, 2019, 9, . | 1.3 | 2 |
| 239 | Design and Analysis of a Novel Dual-Airgap Dual Permanent Magnet Vernier Machine. IEEE Access, 2021, 9, 57188-57197. | 4.2 | 2 |
| 240 | Direct modeling of starting process of skewed induction motors using a multi-slice technique. , 0, , . | | 1 |
| 241 | Analysis of indirect temperature-rise tests of induction machines using time stepping finite element method. , 0, , . | | 1 |
| 242 | A direct circuit parameter extraction method of two-dimensional eddy-current magnetic field. , 2010, , . | | 1 |
| 243 | Hysteresis effects on the detent torque in permanent magnet motors. , 2010, , . | | 1 |
| 244 | Improvement of accuracy in cogging torque computation in fractional-slot flux modulating permanent magnet machines. , 2010, , . | | 1 |
| 245 | Design and field analysis of a magnetic gear integrated tubular linear permanent magnet machine. , 2010, , . | | 1 |
| 246 | A flux-modulated low-speed motor with an improved structure and its performance analysis using finite-element method. , 2010, , . | | 1 |
| 247 | Analysis for Magnetic Stimulation Effects on Acupoint. IEEE Transactions on Applied Superconductivity, 2010, 20, 802-805. | 1.7 | 1 |
| 248 | Numerical Investigation of Magnetic Resonant Coupling Technique in Inter-Chip Communication via Electromagnetics-TCAD Coupled Simulation. IEEE Transactions on Magnetics, 2012, 48, 4253-4256. | 2.1 | 1 |
| 249 | A Generalized Multiconductor Transmission Line Model and Optimized Method for the Solution of the MTL Equations. International Journal of Antennas and Propagation, 2012, 2012, 1-7. | 1.2 | 1 |
| 250 | A General Time-Domain Finite-Element Method for Frequency-Domain Solutions. IEEE Transactions on Magnetics, 2013, 49, 1284-1289. | 2.1 | 1 |
| 251 | A Multi-Slice Finite Element Model Including Distributive Capacitances for Wireless Magnetic Resonant Energy Transfer Systems With Circular Coils. IEEE Transactions on Magnetics, 2013, 49, 1857-1860. | 2.1 | 1 |
| 252 | A Fast Frequency-Domain Parameter Extraction Method Using Time-Domain FEM. IEEE Transactions on Magnetics, 2014, 50, 433-436. | 2.1 | 1 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 253 | Designing Loudspeaker by Ensemble of Composite Differential Evolution Ingredients. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 1 |
| 254 | Fast Algorithm to Obtain the Torque Characteristics With Respect to Load Angle of Synchronous Machines Using Finite Element Method. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 1 |
| 255 | A new stable full-wave maxwell solver for all frequencies. , 2016, , . | | 1 |
| 256 | A Novel Dual Rotor Flux-Bidirectional-Modulation Machine for Hybrid Electrical Vehicles. , 2016, , . | | 1 |
| 257 | Finite element method of nonlinear magnetic field computation embedded with different vector Jiles-Atherton hysteresis models. International Journal of Applied Electromagnetics and Mechanics, 2017, 55, 135-140. | 0.6 | 1 |
| 258 | Stabilized Bordered Block Diagonal Form for Solving Nonlinear Magnetic Field Problems. IEEE Transactions on Magnetics, 2018, 54, 1-5. | 2.1 | 1 |
| 259 | Finite-Element Method With Topological Data Structure Mesh for Optimization of Electrical Devices. IEEE Transactions on Magnetics, 2018, 54, 1-4. | 2.1 | 1 |
| 260 | Novel Hybrid-excited Permanent Magnet Machine Based on the Flux Modulation Effect. , 2019, , . | | 1 |
| 261 | Design Optimization of a Pole-Changing Biased Flux Machine Based on Sensitivity Analysis. , 2019, , . | | 1 |
| 262 | Design and optimisation of a bidirectional flux modulation machine for AC and DC power supplies. IET Renewable Power Generation, 2021, 15, 1996-2006. | 3.1 | 1 |
| 263 | A Novel Neural Network Cell Method for Solving Nonlinear Electromagnetic Problems. Advanced Theory and Simulations, 2021, 4, 2100216. | 2.8 | 1 |
| 264 | Parameter extraction of eddy-current magnetic field - circuit coupled problems using matrix analysis method. , 2008, , . | | 0 |
| 265 | Position detection of a dual-structure permanent magnet machine at low speed and standstill using transient finite element analysis. , 2010, , . | | 0 |
| 266 | Optimal design of a focused hyperthermia device using finite element method. , 2010, , . | | 0 |
| 267 | A unified formulation of finite-element methods for 2-d and axisymmetric magnetic fields - Electric circuit cosimulation using matrix approach. , 2010, , . | | 0 |
| 268 | Magnetic design of transformers for 20kW charging stations of electrical vehicles. , 2010, , . | | 0 |
| 269 | A sensorless position detection strategy for Surface Mounted permanent magnet motors at low speed using transient finite-element analysis. , 2010, , . | | 0 |
| 270 | A novel method of modeling 2D magnetic properties of electrical steel sheet in electromagnetic devices. , 2010, , . | | 0 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 271 | Moving least-square approximation based interface element with variable nodes for modeling sliding-interface in electric machines. , 2010, , . | | 0 |
| 272 | An efficient mesh reconstruction method for optimizing the shapes of electromagnetic devices using finite element method. , 2010, , . | | 0 |
| 273 | Time domain finite element analysis of transient transmission lines with and without branches. , 2010, , . | | 0 |
| 274 | A New Low Radiation Wireless Transmission System in Mobile Phone Application Based on Magnetic Resonant Coupling. IEEE Transactions on Magnetics, 2013, 49, 3476-3479. | 2.1 | 0 |
| 275 | A transient finite element method for power electronic driven electric machines. , 2013, , . | | 0 |
| 276 | Starting response time dynamic digital simulation of DCT clutch BLDC motor. , 2013, , . | | 0 |
| 277 | A convenient algorithm for circuit parameters of eddy-current field based on circuit-field coupling formulation. , 2013, , . | | 0 |
| 278 | Investigation and analysis of amorphous magnetic materials for hybrid-flux-modulated motor. Materials Research Innovations, 2015, 19, S10-424-S10-430. | 2.3 | 0 |
| 279 | Influence of Shape Anisotropy on Magnetization Dynamics Driven by Spin Hall Effect. Advances in Materials Science and Engineering, 2016, 2016, 1-8. | 1.8 | 0 |
| 280 | An adaptive dual-order finite-element method by adjusting degrees-of-freedom in transient field analysis. , 2016, , . | | 0 |
| 281 | A fast remesh-free mesh deformation method based on radial basis function interpolation and its application to optimal design of electromagnetic devices. , 2016, , . | | 0 |
| 282 | A novel formulation with Coulomb gauge for 3-D magnetostatic problems using edge elements. , 2016, , . | | 0 |
| 283 | History based learning artificial bee colony algorithm for electromagnetic inverse problems. , 2016, , . | | 0 |
| 284 | A novel structure of metameterial with high bandwidth for wireless power transfer systems. , 2016, , . | | 0 |
| 285 | A novel gauged vector potential formulation for 3-D motional eddy-current problems using edge elements. , 2016, , . | | 0 |
| 286 | A novel coulomb gauged magnetic vector potential formulation for 3-D eddy-current field analysis using edge elements. , 2016, , . | | 0 |
| 287 | A novel design method for the electrical machines with biased DC excitation flux linkage. , 2016, , . | | 0 |
| 288 | A novel disc machine with axial biased flux and complementary salient rotors. , 2016, , . | | 0 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 289 | A novel iterative linear solver for 3-D magnetostatic problems using edge elements. , 2016, , . | | 0 |
| 290 | A Novel Gauged Vector Potential Formulation for 3-D Motional Eddy-Current Problems Using Edge Elements. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 0 |
| 291 | Performance comparison of axial-flux-modulated motor with two pole-slot combinations. Turkish Journal of Electrical Engineering and Computer Sciences, 2017, 25, 484-496. | 1.4 | 0 |
| 292 | Optimization of Cooling Ducts in Nanofluid-Filled Power Transformer Windings. , 2018, , . | | 0 |
| 293 | Design and Analysis of a Linear Memory Machine for Ocean Wave Power Generation. Energies, 2020, 13, 5216. | 3.1 | 0 |
| 294 | 3-D Transient Magneto-Thermal Field Analysis Using Adaptive Degrees-of-Freedom Finite-Element Method. IEEE Transactions on Magnetics, 2020, 56, 1-4. | 2.1 | 0 |
| 295 | Adaptive Degrees-of-Freedom Finite-Element Analysis of 3-D Transient Magnetic Problems. IEEE Transactions on Magnetics, 2021, 57, 1-5. | 2.1 | 0 |
| 296 | 3-D nonlinear magnetic field analysis with a novel adaptive finite element method. Electrical Engineering, 2021, 103, 2603-2610. | 2.0 | 0 |