Weinong Fu

List of Publications by Year in Descending Order

258 papers	3,647 citations	29 h-index	47 g-index
296 ext. papers	4,516 ext. citations	2.5 avg, IF	5.79 L-index

#	Paper	IF	Citations
258	Multiple 3-phase PMA-SynRM with Delta Windings for Enhanced Fault Tolerance. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	
257	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	2.9	2
256	Novel Steel-Bar Starting Cage Line-Start Permanent Magnet Machine with Spoke Type Insulation Layers. *IEEE Transactions on Magnetics*, **2022**, 1-1	2	0
255	A Novel Slot-PM Assisted Complementary-Rotor Doubly-Salient Machine with Enhanced Torque Performance. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	3
254	3-D nonlinear magnetic field analysis with a novel adaptive finite element method. *Electrical Engineering*, **2021**, 103, 2603	1.5	
253	Design and optimisation of a bidirectional flux modulation machine for AC and DC power supplies. *IET Renewable Power Generation*, **2021**, 15, 1996-2006	2.9	
252	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	2
251	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	3
250	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
249	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	8.9	8
248	Robust Model Predictive Control for a Three-Phase PMSM Motor With Improved Control Precision. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 838-849	8.9	24
247	Adaptive Degrees-of-Freedom Finite-Element Analysis of 3-D Transient Magnetic Problems. *IEEE Transactions on Magnetics*, **2021**, 57, 1-5	2	
246	Novel DC-Saturation-Relieving Hybrid Reluctance Machine with Skewed Permanent Magnets for Electric Vehicle Propulsion. *IEEE Transactions on Magnetics*, **2021**, 1-1	2	2
245	Comparative Analysis of Different Permanent Magnet Arrangements in a Novel Flux Modulated Electric Machine. *IEEE Access*, **2021**, 9, 14437-14445	3.5	3
244	Study on the PWM Ripple Current Based Turn Fault Detection for Interior PM Machine. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 1537-1547	7.6	1
243	Investigation of Hybrid-Magnet-Circuit Variable Flux Memory Machines With Different Hybrid Magnet Configurations. *IEEE Transactions on Industry Applications*, **2021**, 57, 340-351	4.3	7
242	Design and Analysis of a Novel Dual-Airgap Dual Permanent Magnet Vernier Machine. *IEEE Access*, **2021**, 1-1	3.5	1

241	A Novel Winding Switching Control Strategy of a Consequent-pole Ferrite-PM Hybrid-excited Machine for Electric Vehicle Application. *IEEE Transactions on Magnetics*, **2021**, 1-1	2	0
240	A Novel High-Order-Harmonic Winding Design Method for Vernier Reluctance Machine with DC Coils across Two Stator Teeth. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	4
239	A Modified Shuffled Frog Leaping Algorithm for the Topology Optimization of Electromagnet Devices. *Applied Sciences (Switzerland)*, **2020**, 10, 6186	2.6	3
238	Design and Analysis of a Linear Memory Machine for Ocean Wave Power Generation. *Energies*, **2020**, 13, 5216	3.1	
237	A Method to Improve Torque Density in a Flux-Switching Permanent Magnet Machine. *Energies*, **2020**, 13, 5308	3.1	2
236	. *IEEE Access*, **2020**, 8, 82700-82708	3.5	3
235	3-D Transient Magneto-Thermal Field Analysis Using Adaptive Degrees-of-Freedom Finite-Element Method. *IEEE Transactions on Magnetics*, **2020**, 56, 1-4	2	
234	An Indirect Reference Vector-Based Model Predictive Control for a Three-Phase PMSM Motor. *IEEE Access*, **2020**, 8, 29435-29445	3.5	14
233	Design and Optimization of a Dual-Permanent-Magnet Vernier Machine With a Novel Optimization Model. *IEEE Transactions on Magnetics*, **2020**, 56, 1-5	2	10
232	Design and Optimization of a Novel Dual-PM Machine for Electric Vehicle Applications. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 14391-14400	6.8	11
231	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	8.9	20
230	Analysis and design of nanofluid-filled power transformers. *Electrical Engineering*, **2020**, 102, 321-329	1.5	2
229	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	8
228	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	3.5	5
227	A New Relieving-DC-Saturation Hybrid Excitation Vernier Machine for HEV Starter Generator Application. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 6342-6353	8.9	24
226	Multi-Objective Optimization of a Direct-Drive Dual-Structure Permanent Magnet Machine. *IEEE Transactions on Magnetics*, **2019**, 55, 1-4	2	9
225	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	2.3	4
224	Numerical Study on Natural Convective Heat Transfer of Nanofluids in Disc-Type Transformer Windings. *IEEE Access*, **2019**, 7, 51267-51275	3.5	13

223	An adjustable degrees-of-freedom numerical method for computing the temperature distribution of electrical devices. *Electrical Engineering*, **2019**, 101, 507-516	1.5	0
222	Design and Analysis of a Novel Synthetic Slot Dual-PM Machine. *IEEE Access*, **2019**, 7, 29916-29923	3.5	2
221	A Multiscale Topology Optimization Methodology Based on Sequential Element RejectionAdmission and Boundary Element Evolvement. *IEEE Transactions on Magnetics*, **2019**, 55, 1-4	2	1
220	Torque Component Quantification and Design Guideline for Dual Permanent Magnet Vernier Machine. *IEEE Transactions on Magnetics*, **2019**, 55, 1-5	2	16
219	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	14
218	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	6
217	A Novel Dual-Rotor Bidirectional Flux-Modulation PM Generator for Stand-Alone DC Power Supply. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 818-828	8.9	11
216	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	8.9	32
215	Novel Hybrid-excited Permanent Magnet Machine Based on the Flux Modulation Effect **2019**,		1
214	Design Optimization of a Pole-Changing Biased Flux Machine Based on Sensitivity Analysis **2019**,		1
213	Numerical study on nanofluids natural convection heat transfer inside power transformer windings. *AIP Advances*, **2019**, 9, 125343	1.5	1
212	Analysis of Flux Regulation Principle in a Novel Hybrid-Magnet-Circuit Variable Flux Memory Machine **2019**,		2
211	Heat transfer comparison of nanofluid filled transformer and traditional oil-immersed transformer. *AIP Advances*, **2018**, 8, 056724	1.5	7
210	Stabilized Bordered Block Diagonal Form for Solving Nonlinear Magnetic Field Problems. *IEEE Transactions on Magnetics*, **2018**, 54, 1-5	2	1
209	Sensitivity Analysis and Optimal Design of a Dual Mechanical Port Bidirectional Flux-Modulated Machine. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 211-220	8.9	34
208	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	2.3	2
207	Finite-Element Method With Topological Data Structure Mesh for Optimization of Electrical Devices. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	1
206	Applying Response Surface Method to Oil-Immersed Transformer Cooling System for Design Optimization. *IEEE Transactions on Magnetics*, **2018**, 54, 1-5	2	3

205	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	5.4	5
204	A New Stable Full-Wave Maxwell Solver for All Frequencies. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	3
203	Optimal Structure Design of Permanent Magnet Motors Based on a General Pattern of Rotor Topologies. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	5
202	Fast Numerical Method for Computing Resonant Characteristics of Electromagnetic Devices Based on Finite-Element Method. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	5
201	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	
200	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	7
199	A Novel Formulation With Coulomb Gauge for 3-D Magnetostatic Problems Using Edge Elements. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	4
198	Electrical-Continuously Variable Transmission System Based on Doubly Fed Flux-Bidirectional Modulation. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 2722-2731	8.9	27
197	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	2
196	Performance comparison of axial-flux-modulated motor with two pole-slot combinations. *Turkish Journal of Electrical Engineering and Computer Sciences*, **2017**, 25, 484-496	0.9	
195	A novel axial flux stator and rotor dual permanent magnet machine. *CES Transactions on Electrical Machines and Systems*, **2017**, 1, 140-145	2.3	1
194	. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 9914-9923	8.9	28
193	A dual permanent magnet machine for high-torque low-speed applications **2017**,		4
192	A novel stator and rotor dual PM flux modulated machine. *Chinese Journal of Electrical Engineering*, **2017**, 3, 10-15	4	2
191	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	0.4	
190	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	20
189	Design of an Electrical Continuously Variable Transmission Based Wind Energy Conversion System. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 6745-6755	8.9	24
188	Optimal Design of Magnetic Gears With a General Pattern of Permanent Magnet Arrangement. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	10

187	Iron Loss Separation in High Frequency Using Numerical Techniques. *IEEE Transactions on Magnetics* , **2016**, 52, 1-4	2	2
186	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	13
185	Performance Analysis of a Novel Triple-Permanent-Magnet- Excited Magnetic Gear and Its Design Method. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	13
184	Design and Analysis of a Shoe-Embeded Power Harvester Based on Magnetic Gear. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	4
183	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	14
182	A Novel Structure of Dual-Stator Hybrid Excitation Synchronous Motor. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	7
181	A Mesh Deformation Algorithm and Its Application in Optimal Motor Design. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	2
180	A Novel Multiphase Brushless Power-Split Transmission System for Wind Power Generation. *IEEE Transactions on Magnetics*, **2016**, 52, 1-7	2	8
179	Control of a Dual-Stator Flux-Modulated Motor for Electric Vehicles. *Energies*, **2016**, 9, 517	3.1	11
178	Influence of Shape Anisotropy on Magnetization Dynamics Driven by Spin Hall Effect. *Advances in Materials Science and Engineering*, **2016**, 2016, 1-8	1.5	
177	A unified theory of flux-modulated electric machines **2016**,		10
176	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	1.8	7
175	A Novel Hybrid-Flux Magnetic Gear and Its Performance Analysis Using the 3-D Finite Element Method. *Energies*, **2015**, 8, 3313-3327	3.1	7
174	An Improved Evolution Strategy and Its Application to Inverse Scattering in Microwave Imaging. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	3
173	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	9
172	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	8.9	28
171	Design and analysis of novel magnetic flux-modulated mnemonic machines. *IET Electric Power Applications*, **2015**, 9, 469-477	1.8	20
170	Novel Dual-Layer and Triple-Layer Permanent-Magnet-Excited Synchronous Motors. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	1

169	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	19
168	Magnetic Circuit Analysis for a Magnetless Double-Rotor Flux Switching Motor. *IEEE Transactions on Magnetics*, **2015**, 51, 1-5	2	4
167	Design Optimization of a Permanent Magnet Motor Derived From a General Magnetization Pattern. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	9
166	Design and Analysis of a New HTS Double-Stator Doubly Fed Wind Generator. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-4	1.8	8
165	Investigation and analysis of amorphous magnetic materials for hybrid-flux-modulated motor. *Materials Research Innovations*, **2015**, 19, S10-424-S10-430	1.9	
164	Electromagnetic Performance Analysis of Novel Flux-Regulatable Permanent Magnet Machines for Wide Constant-Power Speed Range Operation. *Energies*, **2015**, 8, 13971-13984	3.1	7
163	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	0.4	1
162	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	2
161	A Novel Approach to Investigate the Hot-Spot Temperature Rise in Power Transformers. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	12
160	Nonlinear Convergence Acceleration of Magnetic Field Computation. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	4
159	Electromagnetic Performance Analysis of Novel HTS Doubly Fed Flux-Modulated Machines. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-4	1.8	2
158	Hysteresis Modeling in Transient Analysis of Electric Motors With AlNiCo Magnets. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	7
157	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	8
156	A Modification of Artificial Bee Colony Algorithm Applied to Loudspeaker Design Problem. *IEEE Transactions on Magnetics*, **2014**, 50, 737-740	2	33
155	A Novel Stator and Rotor Dual PM Vernier Motor With Space Vector Pulse Width Modulation. *IEEE Transactions on Magnetics*, **2014**, 50, 805-808	2	50
154	Novel Electrical Continuously Variable Transmission System and its Numerical Model. *IEEE Transactions on Magnetics*, **2014**, 50, 757-760	2	4
153	A New Dual-Stator Bidirectional-Modulated PM Machine and Its Optimization. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	5
152	A feasibility study on a new brushless and gearless contra-rotating permanent magnet wind power generator. *Journal of Applied Physics*, **2014**, 115, 17E708	2.5	2

151	Development of a Novel Brushless Power Split Transmission System for Wind Power Generation Application. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	8
150	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	5
149	A Novel High Torque-Density Triple-Permanent-Magnet-Excited Magnetic Gear. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	25
148	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	11
147	A Quantitative Comparison Analysis of Radial-Flux, Transverse-Flux, and Axial-Flux Magnetic Gears. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	23
146	A Novel Magnetic Gear With Intersecting Axes. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	9
145	A Fast Frequency-Domain Parameter Extraction Method Using Time-Domain FEM. *IEEE Transactions on Magnetics*, **2014**, 50, 433-436	2	1
144	Designing Loudspeaker by Ensemble of Composite Differential Evolution Ingredients. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	1
143	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
142	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	4
141	Design Optimizations of Electromagnetic Devices Using Sensitivity Analysis and Tabu Algorithm. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	6
140	Imbalanced Force in Permanent Magnet Brushless Motors With Magnetic and/or Electric Asymmetries. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	0
139	A New Hybrid-Excited Electric Continuous Variable Transmission System. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	6
138	Design and Analysis of a Magnetless Double-Rotor Flux Switching Motor for Low Cost Application. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	21
137	A Novel Double-Stator Double-Rotor Brushless Electrical Continuously Variable Transmission System. *IEEE Transactions on Magnetics*, **2013**, 49, 3909-3912	2	39
136	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	6
135	A General Time-Domain Finite-Element Method for Frequency-Domain Solutions. *IEEE Transactions on Magnetics*, **2013**, 49, 1284-1289	2	1
134	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	4

133	A Novel Adaptive Mesh Finite Element Method for Nonlinear Magnetic Field Analysis. *IEEE Transactions on Magnetics*, **2013**, 49, 1777-1780	2	11
132	Extension of Time-Domain Finite Element Method to Nonlinear Frequency-Sweeping Problems. *IEEE Transactions on Magnetics*, **2013**, 49, 1781-1784	2	2
131	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
130	A Hybrid Optimal Design Strategy of Wireless Magnetic-Resonant Charger for Deep Brain Stimulation Devices. *IEEE Transactions on Magnetics*, **2013**, 49, 2145-2148	2	10
129	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	35
128	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	4
127	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	10
126	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	5
125	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	
124	An Improved Artificial Bee Colony Algorithm for Optimal Design of Electromagnetic Devices. *IEEE Transactions on Magnetics*, **2013**, 49, 4811-4816	2	37
123	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	8
122	An adaptive degrees-of-freedom finite-element method for transient magnetic field analysis. *IEEE Transactions on Magnetics*, **2013**, 49, 5724-5729	2	4
121	A Local Discontinuous Galerkin Method for Eddy Current Field Analysis in High-Speed Moving Conductors. *IEEE Transactions on Magnetics*, **2012**, 48, 251-254	2	4
120	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	12
119	A Local Discontinuous Galerkin Method for Numerical Computation of Waveguide Eigenvalue Problems in Polar Coordinates. *IEEE Transactions on Magnetics*, **2012**, 48, 255-258	2	
118	A Mesh-Insensitive Methodology for Magnetic Force Computation in Finite-Element Analysis. *IEEE Transactions on Magnetics*, **2012**, 48, 287-290	2	7
117	A Power-Balanced Time-Stepping Finite Element Method for Transient Magnetic Field Computation. *IEEE Transactions on Magnetics*, **2012**, 48, 291-294	2	8
116	A Sensitivity Analysis Method for Equivalent Parameter Extraction of Transient Magnetic Field With Internal Circuits. *IEEE Transactions on Magnetics*, **2012**, 48, 295-298	2	3

115	A Convenient Mesh Rotation Method of Finite Element Analysis Using Sub-Matrix Transformation Approach. *IEEE Transactions on Magnetics*, **2012**, 48, 303-306	2	7
114	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	4
113	. *IEEE Transactions on Magnetics*, **2012**, 48, 1007-1010	2	35
112	. *IEEE Transactions on Magnetics*, **2012**, 48, 351-354	2	6
111	Analysis of Wireless Energy Transmission for Implantable Device Based on Coupled Magnetic Resonance. *IEEE Transactions on Magnetics*, **2012**, 48, 723-726	2	23
110	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	3
109	Lateral and Angular Misalignments Analysis of a New PCB Circular Spiral Resonant Wireless Charger. *IEEE Transactions on Magnetics*, **2012**, 48, 4522-4525	2	55
108	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	11
107	Quantitative Design and Analysis of Relay Resonators in Wireless Power Transfer System. *IEEE Transactions on Magnetics*, **2012**, 48, 4026-4029	2	75
106	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	10
105	Analysis and Optimization of Magnetically Coupled Resonators for Wireless Power Transfer. *IEEE Transactions on Magnetics*, **2012**, 48, 4511-4514	2	20
104	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	12
103	Analytical study and corresponding experiments for a new resonant magnetic charger with circular spiral coils. *Journal of Applied Physics*, **2012**, 111, 07E704	2.5	2
102	Design and Analysis of a Novel Targeted Magnetic Fluid Hyperthermia System for Tumor Treatment. *IEEE Transactions on Magnetics*, **2012**, 48, 3262-3265	2	18
101	A Novel Brushless Doubly Fed Generator for Wind Power Generation. *IEEE Transactions on Magnetics*, **2012**, 48, 4172-4175	2	25
100	Precise Magnetic Field Modeling Techniques of Rotary Machines Using Transient Finite-Element Method. *IEEE Transactions on Magnetics*, **2012**, 48, 4192-4195	2	2
99	Design and Analysis of Novel Focused Hyperthermia Devices. *IEEE Transactions on Magnetics*, **2012**, 48, 3254-3257	2	10
98	. *IEEE Transactions on Magnetics*, **2012**, 48, 4518-4521	2	16

97	Finite Element Analysis of 1 MW High Speed Wound-Rotor Synchronous Machine. *IEEE Transactions on Magnetics*, **2012**, 48, 4650-4653	2	20
96	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
95	A novel magnetic levitated bearing system for Vertical Axis Wind Turbines (VAWT). *Applied Energy*, **2012**, 90, 148-153	10.7	44
94	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
93	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	4
92	A Characteristic Galerkin Method for Eddy-Current Field Analysis in High-Speed Rotating Solid Conductors. *IEEE Transactions on Magnetics*, **2012**, 48, 4634-4637	2	4
91	An Efficient Parameterized Mesh Method for Large Shape Variation in Optimal Designs of Electromagnetic Devices. *IEEE Transactions on Magnetics*, **2012**, 48, 4507-4510	2	7
90	Design Optimization of Magnetic Gears Using Mesh Adjustable Finite-Element Algorithm for Improved Torque. *IEEE Transactions on Magnetics*, **2012**, 48, 4156-4159	2	27
89	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	11
88	Polymer-bonded NiZn ferrite magnetic cores mixed with titanium (IV) isopropoxide (C12H28O4Ti). *Journal of Applied Physics*, **2011**, 109, 07A514	2.5	3
87	An advanced double-layer combined windings transverse flux system for thin strip induction heating. *Journal of Applied Physics*, **2011**, 109, 07E511	2.5	4
86	A Modified Tabu Search Method Applied to Inverse Problems. *IEEE Transactions on Magnetics*, **2011**, 47, 1234-1237	2	14
85	Finite-Element Analysis and Corresponding Experiments of Resonant Energy Transfer for Wireless Transmission Devices. *IEEE Transactions on Magnetics*, **2011**, 47, 1074-1077	2	14
84	Relay Effect of Wireless Power Transfer Using Strongly Coupled Magnetic Resonances. *IEEE Transactions on Magnetics*, **2011**, 47, 1478-1481	2	138
83	Numerical Analysis of Inverse Scattering in Microwave Imaging. *IEEE Transactions on Magnetics*, **2011**, 47, 1482-1485	2	2
82	Robust Optimization Using a Methodology Based on Cross Entropy Methods. *IEEE Transactions on Magnetics*, **2011**, 47, 1286-1289	2	6
81	A Comparative Study Between Novel Witricity and Traditional Inductive Magnetic Coupling in Wireless Charging. *IEEE Transactions on Magnetics*, **2011**, 47, 1522-1525	2	114
80	A Population-Based Incremental Learning Vector Algorithm for Multiobjective Optimal Designs. *IEEE Transactions on Magnetics*, **2011**, 47, 1306-1309	2	6

79	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	7
78	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	9
77	Quantitative Analysis of a Wireless Power Transfer Cell With Planar Spiral Structures. *IEEE Transactions on Magnetics*, **2011**, 47, 3200-3203	2	35
76	A Moving Mesh Embedded Algorithm in Finite Element Method for Optimal Design of Electromagnetic Devices. *IEEE Transactions on Magnetics*, **2011**, 47, 2947-2950	2	13
75	A Design Method of Magnetically Resonanting Wireless Power Delivery Systems for Bio-Implantable Devices. *IEEE Transactions on Magnetics*, **2011**, 47, 3833-3836	2	20
74	Performance Analysis of a Novel Magnetic-Geared Tubular Linear Permanent Magnet Machine. *IEEE Transactions on Magnetics*, **2011**, 47, 3598-3601	2	30
73	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	41
72	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	4
71	Hysteresis Effects of Laminated Steel Materials on Detent Torque in Permanent Magnet Motors. *IEEE Transactions on Magnetics*, **2011**, 47, 3594-3597	2	14
70	Enhanced Acoustic Emission Detection Induced by Electromagnetic Stimulation With External Magnetic Field. *IEEE Transactions on Magnetics*, **2011**, 47, 3284-3287	2	4
69	Design and Analysis of a Novel Axial-Flux Electric Machine. *IEEE Transactions on Magnetics*, **2011**, 47, 4368-4371	2	24
68	Design and Comparison of Vernier Permanent Magnet Machines. *IEEE Transactions on Magnetics*, **2011**, 47, 3280-3283	2	94
67	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	16
66	FEM Simulations and Experiments for the Advanced Witricity Charger With Compound Nano-TiO$_{2}$ Interlayers. *IEEE Transactions on Magnetics*, **2011**, 47, 4449-4452	2	11
65	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
64	A novel resonant inductive magnetic coupling wireless charger with TiO2 compound interlayer. *Journal of Applied Physics*, **2011**, 109, 07E502	2.5	2
63	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	1.8	4
62	. *IEEE Transactions on Applied Superconductivity*, **2010**, 20, 1029-1032	1.8	5

61	A comparative study between witricity and traditional inductive coupling in wireless energy transmission **2010**,		1
60	A direct circuit parameter extraction method of two-dimensional eddy-current magnetic field **2010**,		1
59	A novel axial-flux electric machine for in-wheel gearless drive in plug-in hybrid electric vehicles **2010**,		5
58	The relay effect on wireless power transfer using witricity **2010**,		28
57	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	1.8	21
56	Extension of the Concept of Windings in Magnetic Field–Electric Circuit Coupled Finite-Element Method. *IEEE Transactions on Magnetics*, **2010**, 46, 2119-2123	2	17
55	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	1.8	24
54	Dynamic Demagnetization Computation of Permanent Magnet Motors Using Finite Element Method With Normal Magnetization Curves. *IEEE Transactions on Applied Superconductivity*, **2010**, 20, 851-855	1.8	29
53	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	1.8	7
52	. *IEEE Transactions on Applied Superconductivity*, **2010**, 20, 802-805	1.8	1
51	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	61
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	21
49	A Novel Direct-Drive Dual-Structure Permanent Magnet Machine. *IEEE Transactions on Magnetics*, **2010**, 46, 2036-2039	2	42
48	Quantitative Comparison of Novel Vernier Permanent Magnet Machines. *IEEE Transactions on Magnetics*, **2010**, 46, 2032-2035	2	112
47	. *IEEE Transactions on Magnetics*, **2010**, 46, 2074-2077	2	36
46	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	4
45	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	53
44	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	4

43	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	6
42	Analytical Prediction of Cogging Torque in Surface-Mounted Permanent-Magnet Motors. *IEEE Transactions on Magnetics*, **2009**, 45, 3296-3302	2	20
41	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	9
40	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	13
39	Matrix Analysis of 2-D Eddy-Current Magnetic Fields. *IEEE Transactions on Magnetics*, **2009**, 45, 3343-3350	2	6
38	Modeling Magnetic Hysteresis Under DC-Biased Magnetization Using the Neural Network. *IEEE Transactions on Magnetics*, **2009**, 45, 3958-3961	2	17
37	An Efficient Two-Grid Finite-Element Method of 3-D Nonlinear Magnetic-Field Computation. *IEEE Transactions on Magnetics*, **2009**, 45, 4797-4800	2	4
36	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	20
35	Complexity Analysis of Magnetic Stimulation at the Acupoint of Zusanli (St36) on EEG. *IEEE Transactions on Magnetics*, **2009**, 45, 4829-4832	2	6
34	Optimization of Array Magnetic Coil Design for Functional Magnetic Stimulation Based on Improved Genetic Algorithm. *IEEE Transactions on Magnetics*, **2009**, 45, 4849-4852	2	18
33	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	15
32	Enhanced Nonlinear Algorithm for the Transient Analysis of Magnetic Field and Electric Circuit Coupled Problems. *IEEE Transactions on Magnetics*, **2009**, 45, 701-706	2	26
31	A Flexible Approach for Brush-Commutation Machine Simulation. *IEEE Transactions on Magnetics*, **2008**, 44, 1542-1545	2	7
30	A finite element method for transient analysis of power electronic motor drives including parasitic capacitive effect and external circuit **2008**,		2
29	A general cosimulation approach for coupled field-circuit problems. *IEEE Transactions on Magnetics*, **2006**, 42, 1051-1054	2	61
28	A new nonlinear anisotropic model for soft magnetic materials. *IEEE Transactions on Magnetics*, **2006**, 42, 963-966	2	20
27	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	4
26	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	221

25	Numerical modeling of magnetic devices. *IEEE Transactions on Magnetics*, **2004**, 40, 1803-1809	2	67
24	Magnetic force computation in permanent magnets using a local energy coordinate derivative method. *IEEE Transactions on Magnetics*, **2004**, 40, 683-686	2	25
23	. *IEEE Transactions on Magnetics*, **2004**, 40, 426-434	2	78
22	A Versatile Finite Element Model of Electric Machines. *Electric Power Components and Systems*, **2003**, 31, 941-966	1	3
21	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	13
20	. *IEEE Transactions on Magnetics*, **2002**, 38, 1033-1036	2	4
19	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	15
18	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	16
17	A dynamic model of the disk drive spindle motor and its applications. *IEEE Transactions on Magnetics*, **2002**, 38, 973-976	2	13
16	Design and analysis of practical induction motors. *IEEE Transactions on Magnetics*, **2001**, 37, 3663-3667	2	4
15	Analysis of indirect temperature-rise tests of induction machines using time stepping finite element method. *IEEE Transactions on Energy Conversion*, **2001**, 16, 55-60	5.4	16
14	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	15
13	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	28
12	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	32
11	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	5.4	3
10	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	5.4	11
9	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
8	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	7

7	REVIEW AND FUTURE APPLICATION OF FINITE ELEMENT METHODS IN INDUCTION MOTORS. *Electric Power Components and Systems*, **1998**, 26, 111-125		23
6	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	29
5	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	16
4	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	7
3	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	40
2	Solution of a 3-D complex finite element model of skewed rotor induction motors using an iterative method		3
1	A Novel Neural Network Cell Method for Solving Nonlinear Electromagnetic Problems. *Advanced Theory and Simulations*,2100216	3.5	