

Weinong Fu

List of Publications by Year in descending order

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#	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.	1.2	323
2	Relay Effect of Wireless Power Transfer Using Strongly Coupled Magnetic Resonances. IEEE Transactions on Magnetics, 2011, 47, 1478-1481.	1.2	180
3	A Comparative Study Between Novel Witricity and Traditional Inductive Magnetic Coupling in Wireless Charging. IEEE Transactions on Magnetics, 2011, 47, 1522-1525.	1.2	162
4	Quantitative Comparison of Novel Vernier Permanent Magnet Machines. IEEE Transactions on Magnetics, 2010, 46, 2032-2035.	1.2	148
5	Design and Comparison of Vernier Permanent Magnet Machines. IEEE Transactions on Magnetics, 2011, 47, 3280-3283.	1.2	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.	1.2	100
7	Quantitative Design and Analysis of Relay Resonators in Wireless Power Transfer System. IEEE Transactions on Magnetics, 2012, 48, 4026-4029.	1.2	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.	1.2	87
9	Numerical Modeling of Magnetic Devices. IEEE Transactions on Magnetics, 2004, 40, 1803-1809.	1.2	86
10	Lateral and Angular Misalignments Analysis of a New PCB Circular Spiral Resonant Wireless Charger. IEEE Transactions on Magnetics, 2012, 48, 4522-4525.	1.2	86
11	A general cosimulation approach for coupled field-circuit problems. IEEE Transactions on Magnetics, 2006, 42, 1051-1054.	1.2	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.	1.2	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.	1.2	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.	1.2	57
15	A Novel Direct-Drive Dual-Structure Permanent Magnet Machine. IEEE Transactions on Magnetics, 2010, 46, 2036-2039.	1.2	57
16	A novel magnetic levitated bearing system for Vertical Axis Wind Turbines (VAWT). Applied Energy, 2012, 90, 148-153.	5.1	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.	5.2	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.	5.2	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.	5.2	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.	1.2	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.	1.2	50
22	A Novel Double-Stator Double-Rotor Brushless Electrical Continuously Variable Transmission System. IEEE Transactions on Magnetics, 2013, 49, 3909-3912.	1.2	45
23	An Improved Artificial Bee Colony Algorithm for Optimal Design of Electromagnetic Devices. IEEE Transactions on Magnetics, 2013, 49, 4811-4816.	1.2	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.	1.2	44
25	Quantitative Analysis of a Wireless Power Transfer Cell With Planar Spiral Structures. IEEE Transactions on Magnetics, 2011, 47, 3200-3203.	1.2	44
26	Performance Analysis of a Novel Magnetic-Geared Tubular Linear Permanent Magnet Machine. IEEE Transactions on Magnetics, 2011, 47, 3598-3601.	1.2	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.	1.2	43
28	A Quantitative Comparison Analysis of Radial-Flux, Transverse-Flux, and Axial-Flux Magnetic Gears. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	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.	5.2	43
30	A Modification of Artificial Bee Colony Algorithm Applied to Loudspeaker Design Problem. IEEE Transactions on Magnetics, 2014, 50, 737-740.	1.2	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.	5.2	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.	1.2	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.	1.2	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.	1.2	38
36	Electrical-Continuously Variable Transmission System Based on Doubly Fed Flux-Bidirectional Modulation. IEEE Transactions on Industrial Electronics, 2017, 64, 2722-2731.	5.2	38

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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.	1.1	37
38	Design Optimization of Magnetic Gears Using Mesh Adjustable Finite-Element Algorithm for Improved Torque. IEEE Transactions on Magnetics, 2012, 48, 4156-4159.	1.2	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.	5.2	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.	1.2	35
42	A Novel High Torque-Density Triple-Permanent-Magnet-Excited Magnetic Gear. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	35
43	Design of an Electrical Continuously Variable Transmission Based Wind Energy Conversion System. IEEE Transactions on Industrial Electronics, 2016, 63, 6745-6755.	5.2	34
44	Magnetic Force Computation in Permanent Magnets Using a Local Energy Coordinate Derivative Method. IEEE Transactions on Magnetics, 2004, 40, 683-686.	1.2	33
45	A new nonlinear anisotropic model for soft magnetic materials. IEEE Transactions on Magnetics, 2006, 42, 963-966.	1.2	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.	1.1	33
47	Design and Analysis of a Novel Axial-Flux Electric Machine. IEEE Transactions on Magnetics, 2011, 47, 4368-4371.	1.2	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.	1.2	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.	5.2	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.	1.2	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.	1.2	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.	1.2	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.	1.2	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.	1.2	29

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55	Design and analysis of novel magnetic flux-modulated mnemonic machines. IET Electric Power Applications, 2015, 9, 469-477.	1.1	28
56	Torque Component Quantification and Design Guideline for Dual Permanent Magnet Vernier Machine. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	28
57	Analytical Prediction of Cogging Torque in Surface-Mounted Permanent-Magnet Motors. IEEE Transactions on Magnetics, 2009, 45, 3296-3302.	1.2	27
58	An Indirect Reference Vector-Based Model Predictive Control for a Three-Phase PMSM Motor. IEEE Access, 2020, 8, 29435-29445.	2.6	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.	1.2	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.	1.2	26
61	Analysis and Optimization of Magnetically Coupled Resonators for Wireless Power Transfer. IEEE Transactions on Magnetics, 2012, 48, 4511-4514.	1.2	26
62	Finite Element Analysis of 1 MW High Speed Wound-Rotor Synchronous Machine. IEEE Transactions on Magnetics, 2012, 48, 4650-4653.	1.2	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.	1.2	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.	3.7	25
65	Modeling Magnetic Hysteresis Under DC-Biased Magnetization Using the Neural Network. IEEE Transactions on Magnetics, 2009, 45, 3958-3961.	1.2	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.	1.1	25
67	Design and Optimization of a Novel Dual-PM Machine for Electric Vehicle Applications. IEEE Transactions on Vehicular Technology, 2020, 69, 14391-14400.	3.9	25
68	Optimal Design of Magnetic Gears With a General Pattern of Permanent Magnet Arrangement. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	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.	3.3	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.	1.2	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.	1.2	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.	1.2	22

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73	Extension of the Concept of Windings in Magnetic Field-Element Method. IEEE Transactions on Magnetics, 2010, 46, 2119-2123.	1.2	22
74	A Design Method of Magnetically Resonating Wireless Power Delivery Systems for Bio-Implantable Devices. IEEE Transactions on Magnetics, 2011, 47, 3833-3836.	1.2	22
75	Design and Analysis of a Novel Targeted Magnetic Fluid Hyperthermia System for Tumor Treatment. IEEE Transactions on Magnetics, 2012, 48, 3262-3265.	1.2	21
76	A Novel Approach to Investigate the Hot-Spot Temperature Rise in Power Transformers. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	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.	1.2	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.	5.2	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.	5.2	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.	1.2	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.	1.2	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.	1.2	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.	1.2	18
84	A Novel Hybrid Resonator for Wireless Power Delivery in Bio-Implantable Devices. IEEE Transactions on Magnetics, 2012, 48, 4518-4521.	1.2	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.	1.2	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.	1.2	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.	1.2	17
88	A Modified Tabu Search Method Applied to Inverse Problems. IEEE Transactions on Magnetics, 2011, 47, 1234-1237.	1.2	16
89	Finite-Element Analysis and Corresponding Experiments of Resonant Energy Transfer for Wireless Transmission Devices. IEEE Transactions on Magnetics, 2011, 47, 1074-1077.	1.2	16
90	Hysteresis Effects of Laminated Steel Materials on Detent Torque in Permanent Magnet Motors. IEEE Transactions on Magnetics, 2011, 47, 3594-3597.	1.2	16

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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.	1.2	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.	1.2	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.	1.2	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.	1.2	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.	1.2	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.	1.2	16
97	Hysteresis Modeling in Transient Analysis of Electric Motors With AlNiCo Magnets. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	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.	1.2	16
99	Numerical Study on Natural Convective Heat Transfer of Nanofluids in Disc-Type Transformer Windings. IEEE Access, 2019, 7, 51267-51275.	2.6	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.	5.2	16
101	A dynamic model of the disk drive spindle motor and its applications. IEEE Transactions on Magnetics, 2002, 38, 973-976.	1.2	15
102	A Novel Adaptive Mesh Finite Element Method for Nonlinear Magnetic Field Analysis. IEEE Transactions on Magnetics, 2013, 49, 1777-1780.	1.2	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.	1.2	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.	1.2	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.	1.2	14
106	A Novel Magnetic Gear With Intersecting Axes. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	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.	1.2	14

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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.	3.7	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.	1.2	12
111	Design and Analysis of Novel Focused Hyperthermia Devices. IEEE Transactions on Magnetics, 2012, 48, 3254-3257.	1.2	12
112	Control of a Dual-Stator Flux-Modulated Motor for Electric Vehicles. Energies, 2016, 9, 517.	1.6	12
113	Heat transfer comparison of nanofluid filled transformer and traditional oil-immersed transformer. AIP Advances, 2018, 8, .	0.6	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.	1.2	12
115	A Flexible Approach for Brush-Commutation Machine Simulation. IEEE Transactions on Magnetics, 2008, 44, 1542-1545.	1.2	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.	1.2	11
117	Robust Optimization Using a Methodology Based on Cross Entropy Methods. IEEE Transactions on Magnetics, 2011, 47, 1286-1289.	1.2	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.	1.2	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.	1.2	11
120	Development of a Novel Brushless Power Split Transmission System for Wind Power Generation Application. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	11
121	A Novel Structure of Dual-Stator Hybrid Excitation Synchronous Motor. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	11
122	Comparative Analysis of Different Permanent Magnet Arrangements in a Novel Flux Modulated Electric Machine. IEEE Access, 2021, 9, 14437-14445.	2.6	11
123	Design and analysis of practical induction motors. IEEE Transactions on Magnetics, 2001, 37, 3663-3667.	1.2	10
124	Matrix Analysis of 2-D Eddy-Current Magnetic Fields. IEEE Transactions on Magnetics, 2009, 45, 3343-3350.	1.2	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.	1.2	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.	1.2	10

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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.	1.2	10
128	Design Optimization of a Permanent Magnet Motor Derived From a General Magnetization Pattern. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	10
129	Design and Analysis of a New HTS Double-Stator Doubly Fed Wind Generator. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	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.	1.2	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.	1.2	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.	1.1	9
133	A Mesh-Insensitive Methodology for Magnetic Force Computation in Finite-Element Analysis. IEEE Transactions on Magnetics, 2012, 48, 287-290.	1.2	9
134	A Power-Balanced Time-Stepping Finite Element Method for Transient Magnetic Field Computation. IEEE Transactions on Magnetics, 2012, 48, 291-294.	1.2	9
135	A New Dual-Stator Bidirectional-Modulated PM Machine and Its Optimization. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	9
136	A Novel Multiphase Brushless Power-Split Transmission System for Wind Power Generation. IEEE Transactions on Magnetics, 2016, 52, 1-7.	1.2	9
137	Applying Response Surface Method to Oil-Immersed Transformer Cooling System for Design Optimization. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	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.	1.2	8
139	Complexity Analysis of EEG Under Magnetic Stimulation at Acupoints. IEEE Transactions on Applied Superconductivity, 2010, 20, 1029-1032.	1.1	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.	1.2	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.	1.2	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.	1.2	8
143	A Convenient Mesh Rotation Method of Finite Element Analysis Using Sub-Matrix Transformation Approach. IEEE Transactions on Magnetics, 2012, 48, 303-306.	1.2	8
144	Comparison Study of Finite Element Methods to Deal With Floating Conductors in Electric Field. IEEE Transactions on Magnetics, 2012, 48, 351-354.	1.2	8

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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.	1.2	8
146	Electromagnetic Performance Analysis of Novel Flux-Regulatable Permanent Magnet Machines for Wide Constant-Power Speed Range Operation. Energies, 2015, 8, 13971-13984.	1.6	8
147	A Novel Hybrid-Flux Magnetic Gear and Its Performance Analysis Using the 3-D Finite Element Method. Energies, 2015, 8, 3313-3327.	1.6	8
148	An Improved Evolution Strategy and Its Application to Inverse Scattering in Microwave Imaging. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	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.	1.1	8
150	Design and Analysis of a Shoe-Embedded Power Harvester Based on Magnetic Gear. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	8
151	A New Stable Full-Wave Maxwell Solver for All Frequencies. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	8
152	Design and Analysis of a Novel Synthetic Slot Dual-PM Machine. IEEE Access, 2019, 7, 29916-29923.	2.6	8
153	Numerical and Experimental Study on Design Optimization of Hybrid Metamaterial Slab for Wireless Power Transmission. IEEE Access, 2020, 8, 82700-82708.	2.6	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.	1.2	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.	1.2	7
156	Complexity Analysis of Magnetic Stimulation at the Acupoint of Zusanli (St36) on EEG. IEEE Transactions on Magnetics, 2009, 45, 4829-4832.	1.2	7
157	An advanced double-layer combined windings transverse flux system for thin strip induction heating. Journal of Applied Physics, 2011, 109, 07E511.	1.1	7
158	An adaptive degrees-of-freedom finite-element method for transient magnetic field analysis. IEEE Transactions on Magnetics, 2013, 49, 5724-5729.	1.2	7
159	Design Optimizations of Electromagnetic Devices Using Sensitivity Analysis and Tabu Algorithm. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	7
160	Magnetic Circuit Analysis for a Magnetless Double-Rotor Flux Switching Motor. IEEE Transactions on Magnetics, 2015, 51, 1-5.	1.2	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.	1.2	7
162	Integrated RBF network based estimation strategy of the output characteristics of brushless DC motors. IEEE Transactions on Magnetics, 2002, 38, 1033-1036.	1.2	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.	1.2	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
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