

Youguang Guo

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	A High-Frequency Link Multilevel Cascaded Medium-Voltage Converter for Direct Grid Integration of Renewable Energy Systems. IEEE Transactions on Power Electronics, 2014, 29, 4167-4182.	5.4	302
2	System-Level Design Optimization Method for Electrical Drive Systems—Robust Approach. IEEE Transactions on Industrial Electronics, 2015, 62, 4702-4713.	5.2	188
3	A Simple Method to Reduce Torque Ripple in Direct Torque-Controlled Permanent-Magnet Synchronous Motor by Using Vectors With Variable Amplitude and Angle. IEEE Transactions on Industrial Electronics, 2011, 58, 2848-2859.	5.2	176
4	Multi-Objective Design Optimization of an IPMSM Based on Multilevel Strategy. IEEE Transactions on Industrial Electronics, 2021, 68, 139-148.	5.2	167
5	Equivalent Circuits for Single-Sided Linear Induction Motors. IEEE Transactions on Industry Applications, 2010, 46, 2410-2423.	3.3	164
6	State Feedback Control for a PM Hub Motor Based on Gray Wolf Optimization Algorithm. IEEE Transactions on Power Electronics, 2020, 35, 1136-1146.	5.4	157
7	Analysis and Design Optimization of a Permanent Magnet Synchronous Motor for a Campus Patrol Electric Vehicle. IEEE Transactions on Vehicular Technology, 2019, 68, 10535-10544.	3.9	150
8	System-Level Design Optimization Methods for Electrical Drive Systems: Deterministic Approach. IEEE Transactions on Industrial Electronics, 2014, 61, 6591-6602.	5.2	142
9	Techniques for Multilevel Design Optimization of Permanent Magnet Motors. IEEE Transactions on Energy Conversion, 2015, 30, 1574-1584.	3.7	142
10	A Review of Design Optimization Methods for Electrical Machines. Energies, 2017, 10, 1962.	1.6	138
11	Development of a PM Transverse Flux Motor With Soft Magnetic Composite Core. IEEE Transactions on Energy Conversion, 2006, 21, 426-434.	3.7	134
12	An Improved Equivalent Circuit Model of a Single-Sided Linear Induction Motor. IEEE Transactions on Vehicular Technology, 2010, 59, 2277-2289.	3.9	124
13	Study on Segmented-Rotor Switched Reluctance Motors With Different Rotor Pole Numbers for BSG System of Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 5537-5547.	3.9	121
14	Comparative study of 3-D flux electrical machines with soft magnetic composite cores. IEEE Transactions on Industry Applications, 2003, 39, 1696-1703.	3.3	119
15	An Improved Model Predictive Current Control for PMSM Drives Based on Current Track Circle. IEEE Transactions on Industrial Electronics, 2021, 68, 3782-3793.	5.2	117
16	Driving-Cycle-Oriented Design Optimization of a Permanent Magnet Hub Motor Drive System for a Four-Wheel-Drive Electric Vehicle. IEEE Transactions on Transportation Electrification, 2020, 6, 1115-1125.	5.3	116
17	Modular Medium-Voltage Grid-Connected Converter With Improved Switching Techniques for Solar Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 8887-8896.	5.2	108
18	A Robust Deadbeat Predictive Controller With Delay Compensation Based on Composite Sliding-Mode Observer for PMSMs. IEEE Transactions on Power Electronics, 2021, 36, 10742-10752.	5.4	108

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19	A review of offshore wind turbine nacelle: Technical challenges, and research and developmental trends. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 33, 161-176.	8.2	104
20	Measurement and Modeling of Rotational Core Losses of Soft Magnetic Materials Used in Electrical Machines: A Review. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 279-291.	1.2	103
21	MPTC for PMSMs of EVs With Multi-Motor Driven System Considering Optimal Energy Allocation. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-6.	1.2	96
22	Multiobjective System Level Optimization Method for Switched Reluctance Motor Drive Systems Using Finite-Element Model. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 10055-10064.	5.2	95
23	A Multilevel Medium-Voltage Inverter for Step-Up-Transformer-Less Grid Connection of Photovoltaic Power Plants. <i>IEEE Journal of Photovoltaics</i> , 2014, 4, 881-889.	1.5	94
24	Performance Analysis of Suspension Force and Torque in an IBPMSM With V-Shaped PMs for Flywheel Batteries. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	1.2	93
25	Speed Sensorless Model Predictive Current Control Based on Finite Position Set for PMSHM Drives. <i>IEEE Transactions on Transportation Electrification</i> , 2021, 7, 2743-2752.	5.3	90
26	Speed Sensorless Control for Permanent Magnet Synchronous Motors Based on Finite Position Set. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 6089-6100.	5.2	89
27	Torque Analysis and Dynamic Performance Improvement of a PMSM for EVs by Skew Angle Optimization. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.1	87
28	Development of PM Transverse Flux Motors With Soft Magnetic Composite Cores. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 4376-4383.	1.2	84
29	Core Loss Modeling for Permanent-Magnet Motor Based on Flux Variation Locus and Finite-Element Method. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 1023-1026.	1.2	83
30	Unbalanced Magnet Pull in Large Brushless Rare-Earth Permanent Magnet Motors With Rotor Eccentricity. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 4586-4589.	1.2	79
31	Torque Ripple Reduction of SRM Drive Using Improved Direct Torque Control With Sliding Mode Controller and Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 9334-9345.	5.2	79
32	Analysis and Minimization of Detent End Force in Linear Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 2475-2486.	5.2	78
33	Comparative Study of Small Electrical Machines With Soft Magnetic Composite Cores. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 1049-1060.	5.2	76
34	Design and Analysis of a Claw Pole Permanent Magnet Motor With Molded Soft Magnetic Composite Core. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 4582-4585.	1.2	75
35	Core losses in claw pole permanent magnet machines with soft magnetic composite stators. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 3199-3201.	1.2	73
36	Thermal Analysis of High-Speed SMC Motor Based on Thermal Network and 3-D FEA With Rotational Core Loss Included. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 4680-4683.	1.2	73

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37	Real-Time HIL Emulation for a Segmented-Rotor Switched Reluctance Motor Using a New Magnetic Equivalent Circuit. IEEE Transactions on Power Electronics, 2020, 35, 3841-3849.	5.4	72
38	Detent Force Reduction of an Arc-Linear Permanent-Magnet Synchronous Motor by Using Compensation Windings. IEEE Transactions on Industrial Electronics, 2017, 64, 3001-3011.	5.2	68
39	Direct Torque Control Based on a Fast Modeling Method for a Segmented-Rotor Switched Reluctance Motor in HEV Application. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 232-241.	3.7	68
40	Magnetic Field and Force Calculation in Linear Permanent-Magnet Synchronous Machines Accounting for Longitudinal End Effect. IEEE Transactions on Industrial Electronics, 2016, 63, 7632-7643.	5.2	65
41	A Hybrid Feedforward-Feedback Hysteresis Compensator in Piezoelectric Actuators Based on Least-Squares Support Vector Machine. IEEE Transactions on Industrial Electronics, 2018, 65, 5704-5711.	5.2	64
42	An Improved Deadbeat Predictive Stator Flux Control With Reduced-Order Disturbance Observer for In-Wheel PMSMs. IEEE/ASME Transactions on Mechatronics, 2022, 27, 690-700.	3.7	64
43	Design and Analysis of a Prototype Linear Motor Driving System for HTS Maglev Transportation. IEEE Transactions on Applied Superconductivity, 2007, 17, 2087-2090.	1.1	63
44	Application-Oriented Robust Design Optimization Method for Batch Production of Permanent-Magnet Motors. IEEE Transactions on Industrial Electronics, 2018, 65, 1728-1739.	5.2	62
45	Speed Sensorless Control of SPMSM Drives for EVs With a Binary Search Algorithm-Based Phase-Locked Loop. IEEE Transactions on Vehicular Technology, 2020, 69, 4968-4978.	3.9	62
46	A Composite Sliding Mode Control for SPMSM Drives Based on a New Hybrid Reaching Law With Disturbance Compensation. IEEE Transactions on Transportation Electrification, 2021, 7, 1427-1436.	5.3	62
47	A New Isolated Multi-Port Converter With Multi-Directional Power Flow Capabilities for Smart Electric Vehicle Charging Stations. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	61
48	System-Level Robust Design Optimization of a Switched Reluctance Motor Drive System Considering Multiple Driving Cycles. IEEE Transactions on Energy Conversion, 2021, 36, 348-357.	3.7	61
49	Robust Design Optimization of PM-SMC Motors for Six Sigma Quality Manufacturing. IEEE Transactions on Magnetics, 2013, 49, 3953-3956.	1.2	60
50	Sliding Mode Direct Torque Control of SPMSMs Based on a Hybrid Wolf Optimization Algorithm. IEEE Transactions on Industrial Electronics, 2022, 69, 4534-4544.	5.2	60
51	New Axial Laminated-Structure Flux-Switching Permanent Magnet Machine With 6/7 Poles. IEEE Transactions on Magnetics, 2011, 47, 2823-2826.	1.2	59
52	Multidisciplinary Design Optimization Methods for Electrical Machines and Drive Systems. Power Systems, 2016, , .	0.3	58
53	3-D Analytical Modeling of No-Load Magnetic Field of Ironless Axial Flux Permanent Magnet Machine. IEEE Transactions on Magnetics, 2012, 48, 2929-2932.	1.2	57
54	Thermal analysis of soft magnetic composite motors using a hybrid model with distributed heat sources. IEEE Transactions on Magnetics, 2005, 41, 2124-2128.	1.2	55

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55	Survey on electrical machines in electrical vehicles. , 2009, , .		52
56	Core Loss Calculation for Soft Magnetic Composite Electrical Machines. IEEE Transactions on Magnetics, 2012, 48, 3112-3115.	1.2	50
57	Calculation of Capacitance in High-Frequency Transformer Windings. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	49
58	Model predictive direct torque control of permanent magnet synchronous motors with extended set of voltage space vectors. IET Electric Power Applications, 2017, 11, 1376-1382.	1.1	49
59	Theoretical Research on New Laminated Structure Flux Switching Permanent Magnet Machine for Novel Topologic Plug-In Hybrid Electrical Vehicle. IEEE Transactions on Magnetics, 2012, 48, 4050-4053.	1.2	48
60	Multilevel Design Optimization of a FSPMM Drive System by Using Sequential Subspace Optimization Method. IEEE Transactions on Magnetics, 2014, 50, 685-688.	1.2	48
61	Power and energy management of grid/PEMFC/battery/supercapacitor hybrid power sources for UPS applications. International Journal of Electrical Power and Energy Systems, 2015, 67, 598-612.	3.3	48
62	High-Temperature Superconducting Linear Synchronous Motors Integrated With HTS Magnetic Levitation Components. IEEE Transactions on Applied Superconductivity, 2012, 22, 5202617-5202617.	1.1	47
63	System Level Six Sigma Robust Optimization of a Drive System With PM Transverse Flux Machine. IEEE Transactions on Magnetics, 2012, 48, 923-926.	1.2	47
64	A Novel Diode-Clamped Modular Multilevel Converter With Simplified Capacitor Voltage-Balancing Control. IEEE Transactions on Industrial Electronics, 2017, 64, 8843-8854.	5.2	45
65	An inchworm mobile robot using electromagnetic linear actuator. Mechatronics, 2009, 19, 1116-1125.	2.0	44
66	Optimal Design of High-Frequency Magnetic Links for Power Converters Used in Grid-Connected Renewable Energy Systems. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	44
67	3D vector magnetic properties of soft magnetic composite material. Journal of Magnetism and Magnetic Materials, 2006, 302, 511-516.	1.0	43
68	Hysteresis Modeling of High-Temperature Superconductor Using Simplified Preisach Model. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	43
69	Sequential Optimization Method for the Design of Electromagnetic Device. IEEE Transactions on Magnetics, 2008, 44, 3217-3220.	1.2	42
70	Measurement and modeling of core losses of soft magnetic composites under 3-D magnetic excitations in rotating motors. IEEE Transactions on Magnetics, 2005, 41, 3925-3927.	1.2	40
71	Design and Analysis of a High-Speed Claw Pole Motor With Soft Magnetic Composite Core. IEEE Transactions on Magnetics, 2007, 43, 2492-2494.	1.2	40
72	Measurement and modelling of magnetic properties of soft magnetic composite material under 2D vector magnetisations. Journal of Magnetism and Magnetic Materials, 2006, 302, 14-19.	1.0	39

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73	Sequential Subspace Optimization Method for Electromagnetic Devices Design With Orthogonal Design Technique. IEEE Transactions on Magnetics, 2012, 48, 479-482.	1.2	39
74	A Split Translator Secondary Stator Permanent Magnet Linear Generator for Oceanic Wave Energy Conversion. IEEE Transactions on Industrial Electronics, 2018, 65, 7600-7608.	5.2	39
75	Robust Tolerance Design Optimization of a PM Claw Pole Motor With Soft Magnetic Composite Cores. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	39
76	Robust Design Optimization of Electrical Machines: Multi-Objective Approach. IEEE Transactions on Energy Conversion, 2021, 36, 390-401.	3.7	39
77	Multimode Optimization of Switched Reluctance Machines in Hybrid Electric Vehicles. IEEE Transactions on Energy Conversion, 2021, 36, 2217-2226.	3.7	39
78	A medium frequency transformer with multiple secondary windings for medium voltage converter based wind turbine power generating systems. Journal of Applied Physics, 2013, 113, .	1.1	38
79	A Novel Design Procedure for Designing Linear Generators. IEEE Transactions on Industrial Electronics, 2018, 65, 1846-1854.	5.2	38
80	Multiobjective and Multiphysics Design Optimization of a Switched Reluctance Motor for Electric Vehicle Applications. IEEE Transactions on Energy Conversion, 2021, 36, 3294-3304.	3.7	38
81	Characteristics of soft magnetic composite material under rotating magnetic fluxes. Journal of Magnetism and Magnetic Materials, 2006, 299, 29-34.	1.0	37
82	Intelligent uninterruptible power supply system with back-up fuel cell/battery hybrid power source. Journal of Power Sources, 2008, 179, 745-753.	4.0	37
83	A Novel Superconducting Magnet Excited Linear Generator for Wave Energy Conversion System. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	37
84	No-Load Magnetic Field and Cogging Force Calculation in Linear Permanent-Magnet Synchronous Machines With Semiclosed Slots. IEEE Transactions on Industrial Electronics, 2017, 64, 5564-5575.	5.2	37
85	Oceanic Wave Energy Conversion by a Novel Permanent Magnet Linear Generator Capable of Preventing Demagnetization. IEEE Transactions on Industry Applications, 2018, 54, 6005-6014.	3.3	37
86	Performance Characteristics of an HTS Linear Synchronous Motor With HTS Bulk Magnet Secondary. IEEE Transactions on Industry Applications, 2011, 47, 2469-2477.	3.3	36
87	Multiobjective Sequential Design Optimization of PM-SMC Motors for Six Sigma Quality Manufacturing. IEEE Transactions on Magnetics, 2014, 50, 717-720.	1.2	36
88	Multidisciplinary Design Analysis and Optimization of a PM Transverse Flux Machine With Soft Magnetic Composite Core. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	35
89	Suspension Force Modeling for a Bearingless Permanent Magnet Synchronous Motor Using Maxwell Stress Tensor Method. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	34
90	Design and Analysis of a Novel Lightweight Translator Permanent Magnet Linear Generator for Oceanic Wave Energy Conversion. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	34

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91	Torque Modeling of a Segmented-Rotor SRM Using Maximum-Correntropy-Criterion-Based LSSVR for Torque Calculation of EVs. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2674-2684.	3.7	34
92	Improved Model Predictive Torque Control for PMSM Drives Based on Duty Cycle Optimization. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	34
93	Power Converters for Medium Voltage Networks. Green Energy and Technology, 2014, , .	0.4	33
94	Development of a High-Performance Axial Flux PM Machine With SMC Cores for Electric Vehicle Application. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	33
95	Modified PI controller with improved steady-state performance and comparison with PR controller on direct matrix converters. Chinese Journal of Electrical Engineering, 2019, 5, 53-66.	2.3	33
96	Analysis and Optimization of Radial Force of Permanent-Magnet Synchronous Hub Motors. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	33
97	Development of a slotless tubular linear interior permanent magnet micromotor for robotic applications. IEEE Transactions on Magnetics, 2005, 41, 3988-3990.	1.2	32
98	Accurate determination of parameters of a claw-pole motor with SMC stator core by finite-element magnetic-field analysis. IET Electric Power Applications, 2006, 153, 568.	1.4	32
99	Multiobjective Sequential Optimization Method for the Design of Industrial Electromagnetic Devices. IEEE Transactions on Magnetics, 2012, 48, 4538-4541.	1.2	32
100	Core Loss Computation in a Permanent Magnet Transverse Flux Motor With Rotating Fluxes. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	32
101	Optimal Design of Terminal Sliding Mode Controller for Direct Torque Control of SRMs. IEEE Transactions on Transportation Electrification, 2022, 8, 1445-1453.	5.3	32
102	Initial Rotor Position and Magnetic Polarity Identification of PM Synchronous Machine Based on Nonlinear Machine Model and Finite Element Analysis. IEEE Transactions on Magnetics, 2010, 46, 2016-2019.	1.2	31
103	Magnetic Properties Measurement of Soft Magnetic Composite Materials Over Wide Range of Excitation Frequency. IEEE Transactions on Industry Applications, 2012, 48, 88-97.	3.3	31
104	Robust Multidisciplinary Design Optimization of PM Machines With Soft Magnetic Composite Cores for Batch Production. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	31
105	A Review of the Monitoring and Damping Unbalanced Magnetic Pull in Induction Machines Due to Rotor Eccentricity. IEEE Transactions on Industry Applications, 2019, 55, 2569-2580.	3.3	31
106	Multiobjective Optimization of a Five-Phase Bearingless Permanent Magnet Motor Considering Winding Area. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2657-2666.	3.7	31
107	Determination of 3D magnetic reluctivity tensor of soft magnetic composite material. Journal of Magnetism and Magnetic Materials, 2007, 312, 458-463.	1.0	30
108	Robust Design Optimization of Switched Reluctance Motor Drive Systems Based on System-Level Sequential Taguchi Method. IEEE Transactions on Energy Conversion, 2021, 36, 3199-3207.	3.7	30

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109	An Improved Multiquadric Collocation Method for 3-D Electromagnetic Problems. IEEE Transactions on Magnetics, 2007, 43, 1509-1512.	1.2	29
110	Transient Simulation and Analysis for Saturated Core High Temperature Superconducting Fault Current Limiter. IEEE Transactions on Magnetics, 2007, 43, 1813-1816.	1.2	29
111	Robust Multilevel Optimization of PMSM Using Design for Six Sigma. IEEE Transactions on Magnetics, 2011, 47, 3248-3251.	1.2	29
112	Reduction of Magnet Eddy Current Loss in PMSM by Using Partial Magnet Segment Method. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	28
113	Improved Sequential Optimization Method for High Dimensional Electromagnetic Device Optimization. IEEE Transactions on Magnetics, 2009, 45, 3993-3996.	1.2	27
114	Measurement of Soft Magnetic Composite Material Using an Improved 3-D Tester With Flexible Excitation Coils and Novel Sensing Coils. IEEE Transactions on Magnetics, 2010, 46, 1971-1974.	1.2	27
115	Study on Rotational Hysteresis and Core Loss Under Three-Dimensional Magnetization. IEEE Transactions on Magnetics, 2011, 47, 3520-3523.	1.2	27
116	Development of a New Low-Cost 3-D Flux Transverse Flux FSPMM With Soft Magnetic Composite Cores and Ferrite Magnets. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	27
117	Model Predictive Observer Based Control for Single-Phase Asymmetrical T-Type AC/DC Power Converter. IEEE Transactions on Industry Applications, 2019, 55, 2033-2044.	3.3	27
118	Robust Design Optimization of Electrical Machines: A Comparative Study and Space Reduction Strategy. IEEE Transactions on Energy Conversion, 2021, 36, 300-313.	3.7	27
119	Development of a permanent magnet claw pole motor with soft magnetic composite core. Australian Journal of Electrical and Electronics Engineering, 2005, 2, 21-30.	0.7	26
120	High-Frequency Magnetic-Link Medium-Voltage Converter for Superconducting Generator-Based High-Power Density Wind Generation Systems. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	26
121	Comprehensive Sensitivity and Cross-Factor Variance Analysis-Based Multi-Objective Design Optimization of a 3-DOF Hybrid Magnetic Bearing. IEEE Transactions on Magnetics, 2021, 57, 1-4.	1.2	26
122	Power losses of soft magnetic composite materials under two-dimensional excitation. Journal of Applied Physics, 1999, 85, 4403-4405.	1.1	25
123	Robust Optimization in HTS Cable Based on Design for Six Sigma. IEEE Transactions on Magnetics, 2008, 44, 978-981.	1.2	25
124	Electromagnetic Device Design Based on RBF Models and Two New Sequential Optimization Strategies. IEEE Transactions on Magnetics, 2010, 46, 3181-3184.	1.2	25
125	Performance and cost comparison of NPC, FC and SCHB multilevel converter topologies for high-voltage applications. , 2011, , .		25
126	State-of-the-Art Technologies for Development of High Frequency Transformers with Advanced Magnetic Materials. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-11.	1.1	25

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127	Multiobjective Optimization of a Tubular Coreless LPMSM Based on Adaptive Multiobjective Black Hole Algorithm. IEEE Transactions on Industrial Electronics, 2020, 67, 3901-3910.	5.2	25
128	Applications of soft magnetic composite materials in electrical machines. Australian Journal of Electrical and Electronics Engineering, 2006, 3, 37-46.	0.7	24
129	Initial rotor position estimation and sensorless direct torque control of surface-mounted permanent magnet synchronous motors considering saturation saliency. IET Electric Power Applications, 2008, 2, 42-48.	1.1	24
130	Multilevel Optimization for Surface Mounted PM Machine Incorporating With FEM. IEEE Transactions on Magnetics, 2009, 45, 4700-4703.	1.2	24
131	Energy Exchange Experiments and Performance Evaluations Using an Equivalent Method for a SMES Prototype. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	24
132	An amorphous alloy core medium frequency magnetic-link for medium voltage photovoltaic inverters. Journal of Applied Physics, 2014, 115, .	1.1	24
133	Cogging Torque Minimization of SMC PM Transverse Flux Machines Using Shifted and Unequal-Width Stator Teeth. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.1	24
134	Reduction of the Detent Force in a Flux-Switching Permanent Magnet Linear Motor. IEEE Transactions on Energy Conversion, 2019, 34, 1695-1705.	3.7	24
135	Robust Design Optimization of a High-Temperature Superconducting Linear Synchronous Motor Based on Taguchi Method. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.1	24
136	Development of a High-Speed Permanent-Magnet Brushless DC Motor for Driving Embroidery Machines. IEEE Transactions on Magnetics, 2007, 43, 4004-4009.	1.2	23
137	A Miniature Short Stroke Linear Actuator's Design and Analysis. IEEE Transactions on Magnetics, 2008, 44, 497-504.	1.2	23
138	Analysis of Inter-Turn Insulation of High Voltage Electrical Machine by Using Multi-Conductor Transmission Line Model. IEEE Transactions on Magnetics, 2013, 49, 1905-1908.	1.2	23
139	The Detection and Suppression of Unbalanced Magnetic Pull in Wound Rotor Induction Motors Using Pole-Specific Search Coils and Auxiliary Windings. IEEE Transactions on Industry Applications, 2017, 53, 2066-2076.	3.3	23
140	Two-dimensional magnetic property measurement for magneto-rheological elastomer. Journal of Applied Physics, 2013, 113, .	1.1	22
141	Fabrication and Experimental Analysis of an Axially Laminated Flux-Switching Permanent-Magnet Machine. IEEE Transactions on Industrial Electronics, 2017, 64, 1081-1091.	5.2	22
142	A transformer-less compact and light wind turbine generating system for offshore wind farms. , 2012, , .		21
143	Modeling and Measurement of Magnetic Hysteresis of Soft Magnetic Composite Materials Under Different Magnetizations. IEEE Transactions on Industrial Electronics, 2017, 64, 2459-2467.	5.2	21
144	Investigation of a 3D-Magnetic Flux PMSM With High Torque Density for Electric Vehicles. IEEE Transactions on Energy Conversion, 2022, 37, 1442-1454.	3.7	21

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145	A Comprehensive Analytical Mathematic Model for Permanent-Magnet Synchronous Machines Incorporating Structural and Saturation Saliencies. IEEE Transactions on Magnetics, 2010, 46, 4081-4091.	1.2	20
146	Eddy-Current Loss Prediction in the Rotor Magnets of a Permanent Magnet Synchronous Generator With Modular Winding Feeding a Rectifier Load. IEEE Transactions on Magnetics, 2011, 47, 4203-4206.	1.2	20
147	Performance comparison of input current ripple reduction methods in UPS applications with hybrid PEM fuel cell/supercapacitor power sources. International Journal of Electrical Power and Energy Systems, 2015, 64, 96-103.	3.3	20
148	Comprehensive influences measurement and analysis of power converter low frequency current ripple on PEM fuel cell. International Journal of Hydrogen Energy, 2019, 44, 31352-31359.	3.8	20
149	H-bridge multilevel voltage source converter for direct grid connection of renewable energy systems. , 2011, , .		19
150	Analysis and experimental validation of an HTS linear synchronous propulsion prototype with HTS magnetic suspension. Physica C: Superconductivity and Its Applications, 2011, 471, 520-527.	0.6	19
151	Analytical Modeling of Manufacturing Imperfections in Double-Rotor Axial Flux PM Machines: Effects on Back EMF. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	19
152	Analysis of Transient Overvoltage in 220 kV Saturated Core HTS FCL. IEEE Transactions on Magnetics, 2011, 47, 2620-2623.	1.2	18
153	Comparison of Claw-Pole Machines With Different Rotor Structures. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	18
154	Dynamic Multilevel Optimization of Machine Design and Control Parameters Based on Correlation Analysis. IEEE Transactions on Magnetics, 2010, 46, 2779-2782.	1.2	17
155	Research of Three-Dimensional Magnetic Reluctivity Tensor Based on Measurement of Magnetic Properties. IEEE Transactions on Applied Superconductivity, 2010, 20, 1932-1935.	1.1	17
156	Design Considerations of PM Transverse Flux Machines With Soft Magnetic Composite Cores. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	17
157	Suggestion for aircraft flying qualities requirements of a short-range air combat mission. Chinese Journal of Aeronautics, 2017, 30, 881-897.	2.8	17
158	Three-dimensional hysteresis of soft magnetic composite. Journal of Applied Physics, 2006, 99, 08D909.	1.1	16
159	Nonlinear Magnetic Model of Surface Mounted PM Machines Incorporating Saturation Saliency. IEEE Transactions on Magnetics, 2009, 45, 4684-4687.	1.2	16
160	Analysis and design of a novel linear generator for harvesting oceanic wave energy. , 2015, , .		16
161	Calculation of core loss and copper loss in amorphous/nanocrystalline core-based high-frequency transformer. AIP Advances, 2016, 6, .	0.6	16
162	Multilevel Robust Design Optimization of a Superconducting Magnetic Energy Storage Based on a Benchmark Study. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	16

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163	An adaptive weighted least square support vector regression for hysteresis in piezoelectric actuators. <i>Sensors and Actuators A: Physical</i> , 2017, 263, 423-429.	2.0	16
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