

# Youguang Guo

## List of Publications by Citations

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

388  
papers

6,408  
citations

40  
h-index

62  
g-index

510  
ext. papers

8,376  
ext. citations

3  
avg, IF

6.66  
L-index

#	Paper	IF	Citations
388	A High-Frequency Link Multilevel Cascaded Medium-Voltage Converter for Direct Grid Integration of Renewable Energy Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 4167-4182	7.2	195
387	System-Level Design Optimization Method for Electrical Drive Systems Robust Approach. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 4702-4713	8.9	138
386	A Simple Method to Reduce Torque Ripple in Direct Torque-Controlled Permanent-Magnet Synchronous Motor by Using Vectors With Variable Amplitude and Angle. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 2848-2859	8.9	130
385	. <i>IEEE Transactions on Energy Conversion</i> , <b>2015</b> , 30, 1574-1584	5.4	117
384	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 6591-6602	8.9	116
383	State Feedback Control for a PM Hub Motor Based on Gray Wolf Optimization Algorithm. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 1136-1146	7.2	113
382	Equivalent Circuits for Single-Sided Linear Induction Motors. <i>IEEE Transactions on Industry Applications</i> , <b>2010</b> , 46, 2410-2423	4.3	107
381	Development of a PM transverse flux motor with soft magnetic composite core. <i>IEEE Transactions on Energy Conversion</i> , <b>2006</b> , 21, 426-434	5.4	103
380	Analysis and Design Optimization of a Permanent Magnet Synchronous Motor for a Campus Patrol Electric Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 10535-10544	6.8	94
379	Study on Segmented-Rotor Switched Reluctance Motors With Different Rotor Pole Numbers for BSG System of Hybrid Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 5537-5547	6.8	91
378	An Improved Equivalent Circuit Model of a Single-Sided Linear Induction Motor. <i>IEEE Transactions on Vehicular Technology</i> , <b>2010</b> , 59, 2277-2289	6.8	88
377	A Review of Design Optimization Methods for Electrical Machines. <i>Energies</i> , <b>2017</b> , 10, 1962	3.1	87
376	Multi-Objective Design Optimization of an IPMSM Based on Multilevel Strategy. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 139-148	8.9	86
375	Performance Analysis of Suspension Force and Torque in an IBPMSM With V-Shaped PMs for Flywheel Batteries. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-4	2	83
374	Comparative study of 3-D flux electrical machines with soft magnetic composite cores. <i>IEEE Transactions on Industry Applications</i> , <b>2003</b> , 39, 1696-1703	4.3	77
373	A review of offshore wind turbine nacelle: Technical challenges, and research and developmental trends. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 33, 161-176	16.2	74
372	Measurement and Modeling of Rotational Core Losses of Soft Magnetic Materials Used in Electrical Machines: A Review. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 279-291	2	74

371	Modular Medium-Voltage Grid-Connected Converter With Improved Switching Techniques for Solar Photovoltaic Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 8887-8896	8.9	70
370	Speed Sensorless Control for Permanent Magnet Synchronous Motors Based on Finite Position Set. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 6089-6100	8.9	70
369	MPTC for PMSMs of EVs With Multi-Motor Driven System Considering Optimal Energy Allocation. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-6	2	69
368	Unbalanced Magnet Pull in Large Brushless Rare-Earth Permanent Magnet Motors With Rotor Eccentricity. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 4586-4589	2	66
367	An Improved Model Predictive Current Control for PMSM Drives Based on Current Track Circle. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 3782-3793	8.9	66
366	Core Loss Modeling for Permanent-Magnet Motor Based on Flux Variation Locus and Finite-Element Method. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 1023-1026	2	63
365	Development of PM Transverse Flux Motors With Soft Magnetic Composite Cores. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 4376-4383	2	63
364	Multiobjective System Level Optimization Method for Switched Reluctance Motor Drive Systems Using Finite-Element Model. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 10055-10064	8.9	61
363	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-5	1.8	60
362	. <i>IEEE Journal of Photovoltaics</i> , <b>2014</b> , 4, 881-889	3.7	59
361	Design and Analysis of a Claw Pole Permanent Magnet Motor With Molded Soft Magnetic Composite Core. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 4582-4585	2	59
360	Real-Time HIL Emulation for a Segmented-Rotor Switched Reluctance Motor Using a New Magnetic Equivalent Circuit. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 3841-3849	7.2	56
359	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> , <b>2009</b> , 45, 4680-4683	2	53
358	A Robust Deadbeat Predictive Controller With Delay Compensation Based on Composite Sliding-Mode Observer for PMSMs. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 10742-10752	7.2	51
357	Core losses in claw pole permanent magnet machines with soft magnetic composite stators. <i>IEEE Transactions on Magnetics</i> , <b>2003</b> , 39, 3199-3201	2	49
356	Comparative Study of Small Electrical Machines With Soft Magnetic Composite Cores. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 1049-1060	8.9	48
355	Design and Analysis of a Prototype Linear Motor Driving System for HTS Maglev Transportation. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 2087-2090	1.8	48
354	Speed Sensorless Control of SPMSM Drives for EVs With a Binary Search Algorithm-Based Phase-Locked Loop. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 4968-4978	6.8	45

353	Robust Design Optimization of PM-SMC Motors for Six Sigma Quality Manufacturing. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 3953-3956	2	45
352	New Axial Laminated-Structure Flux-Switching Permanent Magnet Machine With 6/7 Poles. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 2823-2826	2	45
351	Direct Torque Control Based on a Fast Modeling Method for a Segmented-Rotor Switched Reluctance Motor in HEV Application. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 232-241	5.6	44
350	Detent Force Reduction of an Arc-Linear Permanent-Magnet Synchronous Motor by Using Compensation Windings. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 3001-3011	8.9	43
349	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 1728-1739	8.9	43
348	A Hybrid Feedforward-Feedback Hysteresis Compensator in Piezoelectric Actuators Based on Least-Squares Support Vector Machine. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 5704-5711	8.9	40
347	3-D Analytical Modeling of No-Load Magnetic Field of Ironless Axial Flux Permanent Magnet Machine. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 2929-2932	2	40
346	Analysis and Minimization of Detent End Force in Linear Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 2475-2486	8.9	39
345	Magnetic Field and Force Calculation in Linear Permanent-Magnet Synchronous Machines Accounting for Longitudinal End Effect. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 7632-7643	8.9	39
344	System Level Six Sigma Robust Optimization of a Drive System With PM Transverse Flux Machine. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 923-926	2	39
343	Thermal analysis of soft magnetic composite motors using a hybrid model with distributed heat sources. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 2124-2128	2	39
342	An inchworm mobile robot using electromagnetic linear actuator. <i>Mechatronics</i> , <b>2009</b> , 19, 1116-1125	3	38
341	Driving-Cycle-Oriented Design Optimization of a Permanent Magnet Hub Motor Drive System for a Four-Wheel-Drive Electric Vehicle. <i>IEEE Transactions on Transportation Electrification</i> , <b>2020</b> , 6, 1115-1125	7.6	38
340	Multidisciplinary Design Optimization Methods for Electrical Machines and Drive Systems. <i>Power Systems</i> , <b>2016</b> ,	0.4	36
339	Model predictive direct torque control of permanent magnet synchronous motors with extended set of voltage space vectors. <i>IET Electric Power Applications</i> , <b>2017</b> , 11, 1376-1382	1.8	36
338	Core Loss Calculation for Soft Magnetic Composite Electrical Machines. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 3112-3115	2	35
337	Theoretical Research on New Laminated Structure Flux Switching Permanent Magnet Machine for Novel Topologic Plug-In Hybrid Electrical Vehicle. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 4050-4053	2	35
336	Hysteresis Modeling of High-Temperature Superconductor Using Simplified Preisach Model. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	34

335	Power and energy management of grid/PEMFC/battery/supercapacitor hybrid power sources for UPS applications. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2015</b> , 67, 598-612	5.1	34
334	. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 3217-3220	2	34
333	3D vector magnetic properties of soft magnetic composite material. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 302, 511-516	2.8	34
332	A Novel Diode-Clamped Modular Multilevel Converter With Simplified Capacitor Voltage-Balancing Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 8843-8854	8.9	33
331	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 1846-1854	8.9	33
330	A Novel Superconducting Magnet Excited Linear Generator for Wave Energy Conversion System. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	31
329	Optimal Design of High-Frequency Magnetic Links for Power Converters Used in Grid-Connected Renewable Energy Systems. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	31
328	Characteristics of soft magnetic composite material under rotating magnetic fluxes. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 299, 29-34	2.8	31
327	System-Level Robust Design Optimization of a Switched Reluctance Motor Drive System Considering Multiple Driving Cycles. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 348-357	5.4	31
326	Torque Ripple Reduction of SRM Drive Using Improved Direct Torque Control With Sliding Mode Controller and Observer. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 9334-9345	8.9	31
325	Multilevel Design Optimization of a FSPMM Drive System by Using Sequential Subspace Optimization Method. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 685-688	2	30
324	Design and Analysis of a High-Speed Claw Pole Motor With Soft Magnetic Composite Core. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 2492-2494	2	30
323	Multidisciplinary Design Analysis and Optimization of a PM Transverse Flux Machine With Soft Magnetic Composite Core. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	29
322	A medium frequency transformer with multiple secondary windings for medium voltage converter based wind turbine power generating systems. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17A324	2.5	28
321	Intelligent uninterruptible power supply system with back-up fuel cell/battery hybrid power source. <i>Journal of Power Sources</i> , <b>2008</b> , 179, 745-753	8.9	28
320	A Composite Sliding Mode Control for SPMSM Drives Based on a New Hybrid Reaching Law With Disturbance Compensation. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 1427-1436	7.6	28
319	No-Load Magnetic Field and Cogging Force Calculation in Linear Permanent-Magnet Synchronous Machines With Semiclosed Slots. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 5564-5575	8.9	27
318	Performance Characteristics of an HTS Linear Synchronous Motor With HTS Bulk Magnet Secondary. <i>IEEE Transactions on Industry Applications</i> , <b>2011</b> , 47, 2469-2477	4.3	27

317	Suspension Force Modeling for a Bearingless Permanent Magnet Synchronous Motor Using Maxwell Stress Tensor Method. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	26
316	Calculation of Capacitance in High-Frequency Transformer Windings. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	26
315	Survey on electrical machines in electrical vehicles <b>2009</b> ,		26
314	An Improved Deadbeat Predictive Stator Flux Control with Reduced-Order Disturbance Observer for In-Wheel PMSMs. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 1-1	5.5	26
313	Design and Analysis of a Novel Lightweight Translator Permanent Magnet Linear Generator for Oceanic Wave Energy Conversion. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	25
312	Robust Tolerance Design Optimization of a PM Claw Pole Motor With Soft Magnetic Composite Cores. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-4	2	25
311	Multiobjective Sequential Design Optimization of PM-SMC Motors for Six Sigma Quality Manufacturing. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 717-720	2	25
310	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2012</b> , 22, 5202617-5202617	1.8	25
309	Measurement and modelling of magnetic properties of soft magnetic composite material under 2D vector magnetisations. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 302, 14-19	2.8	25
308	Speed Sensorless Model Predictive Current Control Based on Finite Position Set for PMSM Drives. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 2743-2752	7.6	25
307	High-Frequency Magnetic-Link Medium-Voltage Converter for Superconducting Generator-Based High-Power Density Wind Generation Systems. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2014</b> , 24, 1-5	1.8	24
306	An Improved Multiquadric Collocation Method for 3-D Electromagnetic Problems. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 1509-1512	2	24
305	Development of a slotless tubular linear interior permanent magnet micromotor for robotic applications. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 3988-3990	2	24
304	Robust Multidisciplinary Design Optimization of PM Machines With Soft Magnetic Composite Cores for Batch Production. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	22
303	Sequential Subspace Optimization Method for Electromagnetic Devices Design With Orthogonal Design Technique. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 479-482	2	22
302	Determination of 3D magnetic reluctivity tensor of soft magnetic composite material. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 312, 458-463	2.8	22
301	Measurement and modeling of core losses of soft magnetic composites under 3-D magnetic excitations in rotating motors. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 3925-3927	2	22
300	Analysis and Optimization of Radial Force of Permanent-Magnet Synchronous Hub Motors. <i>IEEE Transactions on Magnetics</i> , <b>2020</b> , 56, 1-4	2	21



299	Core Loss Computation in a Permanent Magnet Transverse Flux Motor With Rotating Fluxes. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	21
298	Multiobjective Sequential Optimization Method for the Design of Industrial Electromagnetic Devices. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 4538-4541	2	21
297	Transient Simulation and Analysis for Saturated Core High Temperature Superconducting Fault Current Limiter. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 1813-1816	2	21
296	Accurate determination of parameters of a claw-pole motor with SMC stator core by finite-element magnetic-field analysis. <i>IET Electric Power Applications</i> , <b>2006</b> , 153, 568		21
295	Oceanic Wave Energy Conversion by a Novel Permanent Magnet Linear Generator Capable of Preventing Demagnetization. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 6005-6014	4.3	20
294	Energy Exchange Experiments and Performance Evaluations Using an Equivalent Method for a SMES Prototype. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2014</b> , 24, 1-5	1.8	20
293	Magnetic Properties Measurement of Soft Magnetic Composite Materials Over Wide Range of Excitation Frequency. <i>IEEE Transactions on Industry Applications</i> , <b>2012</b> , 48, 88-97	4.3	20
292	Robust Multilevel Optimization of PMSM Using Design for Six Sigma. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 3248-3251	2	20
291	Improved Sequential Optimization Method for High Dimensional Electromagnetic Device Optimization. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 3993-3996	2	20
290	Measurement of Soft Magnetic Composite Material Using an Improved 3-D Tester With Flexible Excitation Coils and Novel Sensing Coils. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 1971-1974	2	20
289	A New Isolated Multi-Port Converter With Multi-Directional Power Flow Capabilities for Smart Electric Vehicle Charging Stations. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-4	1.8	19
288	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 7600-7608	8.9	19
287	. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 3181-3184	2	19
286	Multilevel Optimization for Surface Mounted PM Machine Incorporating With FEM. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 4700-4703	2	19
285	Robust Optimization in HTS Cable Based on Design for Six Sigma. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 978-981	2	19
284	Torque Modeling of a Segmented-Rotor SRM Using Maximum-Correntropy-Criterion-Based LSSVR for Torque Calculation of EVs. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 2674-2684	5.6	19
283	Two-dimensional magnetic property measurement for magneto-rheological elastomer. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17A919	2.5	18
282	Initial Rotor Position and Magnetic Polarity Identification of PM Synchronous Machine Based on Nonlinear Machine Model and Finite Element Analysis. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 2016-2019	2	18

281	Cogging Torque Minimization of SMC PM Transverse Flux Machines Using Shifted and Unequal-Width Stator Teeth. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-4	1.8	18
280	Improved Model Predictive Torque Control for PMSM Drives Based on Duty Cycle Optimization. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-5	2	18
279	Analysis of Transient Overvoltage in 220 kV Saturated Core HTS FCL. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 2620-2623	2	17
278	Performance and cost comparison of NPC, FC and SCHB multilevel converter topologies for high-voltage applications <b>2011</b> ,		17
277	A Comprehensive Analytical Mathematic Model for Permanent-Magnet Synchronous Machines Incorporating Structural and Saturation Saliencies. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 4081-4091	2	17
276	A Miniature Short Stroke Linear Actuator Design and Analysis. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 497-504	2	17
275	Power losses of soft magnetic composite materials under two-dimensional excitation. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 4403-4405	2.5	17
274	Robust Design Optimization of a High-Temperature Superconducting Linear Synchronous Motor Based on Taguchi Method. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2019</b> , 29, 1-6	1.8	17
273	Comprehensive Sensitivity and Cross-Factor Variance Analysis-Based Multi-Objective Design Optimization of a 3-DOF Hybrid Magnetic Bearing. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-4	2	17
272	Eddy-Current Loss Prediction in the Rotor Magnets of a Permanent Magnet Synchronous Generator With Modular Winding Feeding a Rectifier Load. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 4203-4206	2	16
271	Initial rotor position estimation and sensorless direct torque control of surface-mounted permanent magnet synchronous motors considering saturation saliency. <i>IET Electric Power Applications</i> , <b>2008</b> , 2, 42-48	1.8	16
270	Sliding Mode Direct Torque Control of SPMSMs Based on a Hybrid Wolf Optimization Algorithm. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	16
269	Analytical Modeling of Manufacturing Imperfections in Double-Rotor Axial Flux PM Machines: Effects on Back EMF. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-5	2	15
268	Development of a New Low-Cost 3-D Flux Transverse Flux FSPMM With Soft Magnetic Composite Cores and Ferrite Magnets. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-5	2	15
267	Development of a High-Performance Axial Flux PM Machine With SMC Cores for Electric Vehicle Application. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-4	2	15
266	Performance comparison of input current ripple reduction methods in UPS applications with hybrid PEM fuel cell/supercapacitor power sources. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2015</b> , 64, 96-103	5.1	15
265	Modeling and Measurement of Magnetic Hysteresis of Soft Magnetic Composite Materials Under Different Magnetizations. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 2459-2467	8.9	15
264	Power Converters for Medium Voltage Networks. <i>Green Energy and Technology</i> , <b>2014</b> ,	0.6	15



263	Study on Rotational Hysteresis and Core Loss Under Three-Dimensional Magnetization. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 3520-3523	2	15
262	Analysis and experimental validation of an HTS linear synchronous propulsion prototype with HTS magnetic suspension. <i>Physica C: Superconductivity and Its Applications</i> , <b>2011</b> , 471, 520-527	1.3	15
261	Modified PI controller with improved steady-state performance and comparison with PR controller on direct matrix converters. <i>Chinese Journal of Electrical Engineering</i> , <b>2019</b> , 5, 53-66	4	14
260	A transformer-less compact and light wind turbine generating system for offshore wind farms <b>2012</b> ,		14
259	Three-dimensional hysteresis of soft magnetic composite. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08D909	2.5	14
258	Multimode Optimization of Switched Reluctance Machines in Hybrid Electric Vehicles. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 2217-2226	5.4	14
257	A Review of the Monitoring and Damping Unbalanced Magnetic Pull in Induction Machines Due to Rotor Eccentricity. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 2569-2580	4.3	13
256	Design Considerations of PM Transverse Flux Machines With Soft Magnetic Composite Cores. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	13
255	Analysis of Inter-Turn Insulation of High Voltage Electrical Machine by Using Multi-Conductor Transmission Line Model. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 1905-1908	2	13
254	Fabrication and Experimental Analysis of an Axially Laminated Flux-Switching Permanent-Magnet Machine. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 1081-1091	8.9	13
253	Analysis and design of a novel linear generator for harvesting oceanic wave energy <b>2015</b> ,		13
252	H-bridge multilevel voltage source converter for direct grid connection of renewable energy systems <b>2011</b> ,		13
251	Nonlinear Magnetic Model of Surface Mounted PM Machines Incorporating Saturation Saliency. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 4684-4687	2	13
250	Influence of external traveling-wave magnetic field on trapped field of a high temperature superconducting bulk magnet used in a linear synchronous motor. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 113913	2.5	13
249	Dynamic Multilevel Optimization of Machine Design and Control Parameters Based on Correlation Analysis. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 2779-2782	2	13
248	Development of a permanent magnet claw pole motor with soft magnetic composite core. <i>Australian Journal of Electrical and Electronics Engineering</i> , <b>2005</b> , 2, 21-30	0.6	13
247	Reduction of Magnet Eddy Current Loss in PMSM by Using Partial Magnet Segment Method. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-5	2	13
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224	Study of Direct Coupling in Stator Dual Windings of a Brushless Doubly Fed Machine. <i>IEEE Transactions on Energy Conversion</i> , <b>2017</b> , 32, 974-982	5.4	10
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168	Power Converters for Small- to Large-Scale Photovoltaic Power Plants. <i>Green Energy and Technology</i> , <b>2014</b> , 17-49	0.6	5
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166	Domain Decomposition Combined Radial Basis Function Collocation Method to Solve Transient Eddy Current Magnetic Problems With Moving Conductors. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 2939-2942	2	5
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161	Multiquadrics Collocation Method for Transient Eddy Current Problems. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 3183-3185	2	5
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147	Optimal design of a linear induction motor applied in transportation <b>2009</b> ,		4
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142	Maximizing investment value of small-scale PV in a smart grid environment <b>2016</b> ,		4
141	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 1-1	1.8	4
140	Investigation and Simulation on Magnetic Hysteresis Properties of Magnetorheological Fluid. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 1611-1616	8.9	3
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136	A novel method to avoid degradation due to demagnetization of PM linear generators for oceanic wave energy extraction <b>2017</b> ,		3
135	FPGA-based control of modular multilevel converters: Modeling and experimental evaluation <b>2015</b> ,		3
134	Three-dimensional magnetic properties of soft magnetic composite material at different frequencies. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07B503	2.5	3
133	Torque ripples and estimation performance of high frequency signal injection based sensorless PMSM drive strategies <b>2010</b> ,		3
132	Design and electromagnetic analysis of a HTS linear synchronous motor <b>2009</b> ,		3
131	Experimental study on thrust and normal force of a permanent magnet linear synchronous motor <b>2011</b> ,		3
130	Flux distribution in Fe-based superconducting materials by magneto-optical imaging. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07E143	2.5	3
129	Design and analysis of a linear induction motor for a prototype HTS maglev transportation system <b>2009</b> ,		3
128	Performance analysis of electric machine drives for plug-in hybrid electric vehicles <b>2009</b> ,		3
127	Power Converters and Controllers for UPS Applications with Backup PEM Fuel Cell <b>2008</b> ,		3
126	An improved Phase Variable Model Based on Electro-magnetic Field Coupled with its External Circuits for Performance Evaluation of Permanent Magnet Brushless DC Motors <b>2007</b> ,		3
125	Robust Optimization of Multilayer Conductors of HTS AC Cable Using PSO and Perturbation Analysis. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , <b>2006</b> ,		3
124	Calculation of Power Loss in Output Diode of a Flyback Switching DC-DC Converter <b>2006</b> ,		3
123	Modeling and Simulation of Flyback DC-DC Converter under Heavy Load <b>2006</b> ,		3
122	Modeling and Simulation of Direct Torque Controlled PMSM Drive System Incorporating Structural and Saturation Saliencies. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , <b>2006</b> ,		3
121	Multiresolution analysis for reconstruction of conductivity profiles in eddy current nondestructive evaluation using probe impedance data. <i>IEEE Transactions on Magnetics</i> , <b>2004</b> , 40, 2101-2103	2	3
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119	Advancements and Impediments in Applications of High-Temperature Superconducting Material <b>2020,</b>		3
118	Sensorless Control with Fault-Tolerant Ability for Switched Reluctance Motors. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 1-1	5-4	3
117	A Systematic Review of Reliability Studies of Grid-Connected Renewable Energy Microgrids <b>2020,</b>		3
116	<b>2016,</b>		3
115	Topology, Modeling and Control Scheme for a New Seven-level Inverter with Reduced DC-Link Voltage. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 1-1	5-4	3
114	Fuzzy Adaptive PI Decoupling Control for Gas Supply System of Proton Exchange Membrane Fuel Cell <b>2018,</b>		3
113	Improved Deadbeat Predictive Current Control to Enhance the Performance of the Drive System of Permanent Magnet Synchronous Motors. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 31, 1-4	1.8	3
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111	Magnetic properties measurement of soft magnetic composite material (SOMALOY 700) by using 3-D tester <b>2017,</b>		2
110	Design and analysis of an outer rotor flux switching permanent magnet machine for electric vehicle <b>2015,</b>		2
109	Robust Design Optimization of Electrical Machines Considering Hybrid Random and Interval Uncertainties. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 1815-1824	5-4	2
108	Unconventional roll axis response-type Nonlinear Dynamic Inversion flight control law design <b>2016,</b>		2
107	Design Optimization Methods for Electrical Machines. <i>Power Systems</i> , <b>2016</b> , 107-159	0.4	2
106	Predicting the behavior of induction machine using motor-CAD and MATLAB packages <b>2018,</b>		2
105	An Improved Population-Based Incremental Learning Method for Objects Buried in Planar Layered Media. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 1027-1030	2	2
104	Extended state observer-based vector control for PMSM drive system with single phase current sensor <b>2017,</b>		2
103	Modified carrier-based over-modulation technique for improved switching performance of multilevel converters <b>2017,</b>		2
102	A robust design optimization method for manufacturing SMC-PMSMs and drive systems of six sigma quality <b>2017,</b>		2

101	Vector control for a bearingless induction motor based on nonsingular terminal sliding mode structure <b>2017</b> ,		2
100	Finite-control-set model predictive direct torque control of PMSMs with virtual space vectors <b>2017</b> ,		2
99	Six-sigma robust topology and shape optimization for flux switching permanent magnet machines <b>2015</b> ,		2
98	An Improved XFEM With Multiple High-Order Enrichment Functions and Low-Order Meshing Elements for Field Analysis of Electromagnetic Devices With Multiple Nearby Geometrical Interfaces. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	2
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96	Cogging torque reduction of Bldc motor using level set based topology optimization incorporating with triangular finite element. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2010</b> , 33, 1069-1076	0.4	2
95	Electromagnetic optimal design of a linear induction motor in linear metro <b>2010</b> ,		2
94	Study on a wind-solar complementary power inverter <b>2009</b> ,		2
93	Fuzzy neural network-based model reference adaptive inverse control for induction machines <b>2009</b> ,		2
92	Improved measurement of three-dimensional magnetic properties of SMC material <b>2009</b> ,		2
91	Numerical simulation of a PMSM model considering saturation saliency for initial rotor position estimation <b>2008</b> ,		2
90	Application of Multi-level Multi-domain Modeling in the Design and Analysis of a PM Transverse Flux Motor with SMC Core <b>2007</b> ,		2
89	Parameter determination and performance analysis of a PM synchronous generator by magnetic field finite element analysis <b>2007</b> ,		2
88	Magnetic properties of soft magnetic composites under three-dimensional excitations. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2007</b> , 25, 237-241	0.4	2
87	A PEMFC/Battery Hybrid UPS System for Backup and Emergency Power Applications <b>2007</b> ,		2
86	A 3-D vector magnetization model with interaction field. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 1496-1499		2
85	A NEW DESIGN PRINCIPLE FOR POLE-CHANGING WINDING-THE THREE-EQUATION PRINCIPLE. <i>Electric Power Components and Systems</i> , <b>1994</b> , 22, 187-199		2
84	Investigation of a 3D-Magnetic Flux PMSM with High Torque Density for Electric Vehicles. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 1-1	5.4	2

83	Design Optimization of an Interior-type Permanent Magnet BLDC Motor using PSO and Improved MEC <b>2007</b> ,		2
82	Comparative Study of Axial Flux Vernier Machine with SMC Cores for Electric Vehicle Application <b>2019</b> ,		2
81	Design Optimization of Linear-Rotary Motion Permanent Magnet Generator With E-Shaped Stator. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 31, 1-5	1.8	2
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79	Development of Equivalent Circuit Models of Permanent Magnet Synchronous Motors Considering Core Loss. <i>Energies</i> , <b>2022</b> , 15, 1995	3.1	2
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26	A Practical Circuit Model of High Frequency Transformers in Power Electronic Systems. <i>Australian Journal of Electrical and Electronics Engineering</i> , <b>2007</b> , 3, 211-223	0.6	0
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