

Jianguo Zhu

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621
papers

10,760
citations

51
h-index

77
g-index

744
ext. papers

14,113
ext. citations

3.5
avg, IF

7.18
L-index

#	Paper	IF	Citations
621	Direct Torque Control of Permanent Magnet Synchronous Motor With Reduced Torque Ripple and Commutation Frequency. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 235-248	7.2	232
620	A High-Frequency Link Multilevel Cascaded Medium-Voltage Converter for Direct Grid Integration of Renewable Energy Systems. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 4167-4182	7.2	195
619	An Improved Direct Torque Control for Three-Level Inverter-Fed Induction Motor Sensorless Drive. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 1502-1513	7.2	165
618	. <i>IEEE Transactions on Power Electronics</i> , 2003 , 18, 1105-1112	7.2	141
617	System-Level Design Optimization Method for Electrical Drive Systems Robust Approach. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4702-4713	8.9	138
616	Co-estimation of state-of-charge, capacity and resistance for lithium-ion batteries based on a high-fidelity electrochemical model. <i>Applied Energy</i> , 2016 , 180, 424-434	10.7	135
615	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> , 2011 , 58, 2848-2859	8.9	130
614	. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 3055-3067	7.2	128
613	. <i>IEEE Transactions on Energy Conversion</i> , 2015 , 30, 1574-1584	5.4	117
612	. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 6591-6602	8.9	116
611	Improved single-ended traveling-wave fault-location algorithm based on experience with conventional substation transducers. <i>IEEE Transactions on Power Delivery</i> , 2006 , 21, 1714-1720	4.3	114
610	State Feedback Control for a PM Hub Motor Based on Gray Wolf Optimization Algorithm. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 1136-1146	7.2	113
609	Incremental capacity analysis and differential voltage analysis based state of charge and capacity estimation for lithium-ion batteries. <i>Energy</i> , 2018 , 150, 759-769	7.9	108
608	Three-Vectors-Based Predictive Direct Power Control of the Doubly Fed Induction Generator for Wind Energy Applications. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3485-3500	7.2	107
607	Equivalent Circuits for Single-Sided Linear Induction Motors. <i>IEEE Transactions on Industry Applications</i> , 2010 , 46, 2410-2423	4.3	107
606	Development of a PM transverse flux motor with soft magnetic composite core. <i>IEEE Transactions on Energy Conversion</i> , 2006 , 21, 426-434	5.4	103
605	Improved formulations for rotational core losses in rotating electrical machines. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 2234-2242	2	102

604	Predictive Direct Virtual Torque and Power Control of Doubly Fed Induction Generators for Fast and Smooth Grid Synchronization and Flexible Power Regulation. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 3182-3194	7.2	100
603	. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 587-594	4.3	99
602	Virtual Flux Droop Method A New Control Strategy of Inverters in Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 4704-4711	7.2	97
601	Analysis and Design Optimization of a Permanent Magnet Synchronous Motor for a Campus Patrol Electric Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 10535-10544	6.8	94
600	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> , 2019 , 68, 5537-5547	6.8	91
599	An Improved Equivalent Circuit Model of a Single-Sided Linear Induction Motor. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 2277-2289	6.8	88
598	HTS Power Devices and Systems: Principles, Characteristics, Performance, and Efficiency. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-26	1.8	88
597	A Review of Design Optimization Methods for Electrical Machines. <i>Energies</i> , 2017 , 10, 1962	3.1	87
596	A Hybrid PWM Applied to High-Power Three-Level Inverter-Fed Induction-Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 3409-3420	8.9	86
595	Multi-Objective Design Optimization of an IPMSM Based on Multilevel Strategy. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 139-148	8.9	86
594	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	2	83
593	3D mesoporous hybrid NiCo2O4@graphene nanoarchitectures as electrode materials for supercapacitors with enhanced performances. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8103-8109	13	81
592	A Novel Approach to Detect Symmetrical Faults Occurring During Power Swings by Using Frequency Components of Instantaneous Three-Phase Active Power. <i>IEEE Transactions on Power Delivery</i> , 2012 , 27, 1368-1376	4.3	78
591	Comparative study of 3-D flux electrical machines with soft magnetic composite cores. <i>IEEE Transactions on Industry Applications</i> , 2003 , 39, 1696-1703	4.3	77
590	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	16.2	74
589	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	2	74
588	Modular Medium-Voltage Grid-Connected Converter With Improved Switching Techniques for Solar Photovoltaic Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 8887-8896	8.9	70
587	Speed Sensorless Control for Permanent Magnet Synchronous Motors Based on Finite Position Set. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 6089-6100	8.9	70

586	MPTC for PMSMs of EVs With Multi-Motor Driven System Considering Optimal Energy Allocation. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-6	2	69
585	. <i>IEEE Transactions on Energy Conversion</i> , 2013 , 28, 652-663	5.4	67
584	An Improved Model Predictive Current Control for PMSM Drives Based on Current Track Circle. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 3782-3793	8.9	66
583	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	2	63
582	Development of PM Transverse Flux Motors With Soft Magnetic Composite Cores. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4376-4383	2	63
581	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	8.9	61
580	A Simple Method for Performance Prediction of Permanent Magnet Eddy Current Couplings Using a New Magnetic Equivalent Circuit Model. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 2487-2495	8.9	60
579	. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	60
578	. <i>IEEE Journal of Photovoltaics</i> , 2014 , 4, 881-889	3.7	59
577	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	2	59
576	Predictive Direct Power Control of Doubly Fed Induction Generators Under Unbalanced Grid Voltage Conditions for Power Quality Improvement. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 943-950	8.2	58
575	Real-Time HIL Emulation for a Segmented-Rotor Switched Reluctance Motor Using a New Magnetic Equivalent Circuit. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3841-3849	7.2	56
574	Differential voltage analysis based state of charge estimation methods for lithium-ion batteries using extended Kalman filter and particle filter. <i>Energy</i> , 2018 , 158, 1028-1037	7.9	54
573	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	2	53
572	Transient performance study of a brushless doubly fed twin stator induction generator. <i>IEEE Transactions on Energy Conversion</i> , 2003 , 18, 400-408	5.4	53
571	Unsynchronised fault-location technique for three-terminal lines. <i>IET Generation, Transmission and Distribution</i> , 2015 , 9, 2099-2107	2.5	52
570	Model predictive control of inverters for both islanded and grid-connected operations in renewable power generations. <i>IET Renewable Power Generation</i> , 2014 , 8, 240-248	2.9	51
569	A Robust Deadbeat Predictive Controller With Delay Compensation Based on Composite Sliding-Mode Observer for PMSMs. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10742-10752	7.2	51

568	Core losses in claw pole permanent magnet machines with soft magnetic composite stators. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 3199-3201	2	49
567	Comparative Study of Small Electrical Machines With Soft Magnetic Composite Cores. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 1049-1060	8.9	48
566	Sensorless Control of Standalone Brushless Doubly Fed Induction Generator Feeding Unbalanced Loads in a Ship Shaft Power Generation System. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 739-749	8.9	48
565	Design and Analysis of a Prototype Linear Motor Driving System for HTS Maglev Transportation. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 2087-2090	1.8	48
564	. <i>IEEE Transactions on Energy Conversion</i> , 2014 , 29, 771-779	5.4	46
563	A Novel Predictive Fuzzy Logic-Based Energy Management System for Grid-Connected and Off-Grid Operation of Residential Smart Microgrids. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1391-1404	5.6	46
562	Speed Sensorless Control of SPMSM Drives for EVs With a Binary Search Algorithm-Based Phase-Locked Loop. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 4968-4978	6.8	45
561	Coil Design and Efficiency Analysis for Dynamic Wireless Charging System for Electric Vehicles. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	45
560	Robust Design Optimization of PM-SMC Motors for Six Sigma Quality Manufacturing. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3953-3956	2	45
559	New Axial Laminated-Structure Flux-Switching Permanent Magnet Machine With 6/7 Poles. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 2823-2826	2	45
558	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> , 2021 , 9, 232-241	5.6	44
557	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 1728-1739	8.9	43
556	Development of a Fuzzy-Logic-Based Energy Management System for a Multiport Multioperation Mode Residential Smart Microgrid. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3283-3301	7.2	43
555	A generalized dynamic circuit model of magnetic cores for low- and high-frequency applications. II. Circuit model formulation and implementation. <i>IEEE Transactions on Power Electronics</i> , 1996 , 11, 251-259	7.2	43
554	A Setting-Free Approach to Detecting Loss of Excitation in Synchronous Generators. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 2270-2278	4.3	41
553	Model-predictive direct power control of doubly-fed induction generators under unbalanced grid voltage conditions in wind energy applications. <i>IET Renewable Power Generation</i> , 2014 , 8, 687-695	2.9	41
552	3-D Analytical Modeling of No-Load Magnetic Field of Ironless Axial Flux Permanent Magnet Machine. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2929-2932	2	40
551	Novel methods for estimating lithium-ion battery state of energy and maximum available energy. <i>Applied Energy</i> , 2016 , 178, 1-8	10.7	39

550	System Level Six Sigma Robust Optimization of a Drive System With PM Transverse Flux Machine. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 923-926	2	39
549	Thermal analysis of soft magnetic composite motors using a hybrid model with distributed heat sources. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2124-2128	2	39
548	An inchworm mobile robot using electromagnetic linear actuator. <i>Mechatronics</i> , 2009 , 19, 1116-1125	3	38
547	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> , 2020 , 6, 1115-1125	7.6	38
546	Sequence-Based Control Strategy With Current Limiting for the Fault Ride-Through of Inverter-Interfaced Distributed Generators. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 165-174	8.2	38
545	Design and Implementation of an Amorphous High-Frequency Transformer Coupling Multiple Converters in a Smart Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 1028-1037	8.9	36
544	Multidisciplinary Design Optimization Methods for Electrical Machines and Drive Systems. <i>Power Systems</i> , 2016 ,	0.4	36
543	Model predictive direct torque control of permanent magnet synchronous motors with extended set of voltage space vectors. <i>IET Electric Power Applications</i> , 2017 , 11, 1376-1382	1.8	36
542	Power Loss and Thermal Analysis for High-Power High-Speed Permanent Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2722-2733	8.9	36
541	. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 1007-1010	2	35
540	Core Loss Calculation for Soft Magnetic Composite Electrical Machines. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3112-3115	2	35
539	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> , 2012 , 48, 4050-4053	2	35
538	Measurement of magnetic properties under 3-D magnetic excitations. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 3429-3431	2	35
537	An Improved Model Predictive Direct Torque Control Strategy for Reducing Harmonic Currents and Torque Ripples of Five-Phase Permanent Magnet Synchronous Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5820-5829	8.9	35
536	Voltage Stabilization: A Critical Step Toward High Photovoltaic Penetration. <i>IEEE Industrial Electronics Magazine</i> , 2019 , 13, 17-30	6.2	34
535	Unsynchronized Fault Location Based on the Negative-Sequence Voltage Magnitude for Double-Circuit Transmission Lines. <i>IEEE Transactions on Power Delivery</i> , 2014 , 29, 1901-1908	4.3	34
534	Hysteresis Modeling of High-Temperature Superconductor Using Simplified Preisach Model. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	34
533	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> , 2015 , 67, 598-612	5.1	34

532	. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3217-3220	2	34
531	3D vector magnetic properties of soft magnetic composite material. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 302, 511-516	2.8	34
530	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 1846-1854	8.9	33
529	Lithium-ion Battery Instantaneous Available Power Prediction Using Surface Lithium Concentration of Solid Particles in a Simplified Electrochemical Model. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 9551-9560	7.2	32
528	Multiobjective Design Optimization of an IPMSM for EVs Based on Fuzzy Method and Sequential Taguchi Method. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 10592-10600	8.9	32
527	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 6870-6880	8.9	31
526	A Novel Superconducting Magnet Excited Linear Generator for Wave Energy Conversion System. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	31
525	Optimal Design of High-Frequency Magnetic Links for Power Converters Used in Grid-Connected Renewable Energy Systems. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	31
524	Characteristics of soft magnetic composite material under rotating magnetic fluxes. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 299, 29-34	2.8	31
523	. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 1227-1238	7.2	31
522	System-Level Robust Design Optimization of a Switched Reluctance Motor Drive System Considering Multiple Driving Cycles. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 348-357	5.4	31
521	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	8.9	31
520	Multilevel Design Optimization of a FSPMM Drive System by Using Sequential Subspace Optimization Method. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 685-688	2	30
519	Transient Performance Analysis of Induction Motor Using Field-Circuit Coupled Finite-Element Method. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 873-876	2	30
518	Design and Analysis of a High-Speed Claw Pole Motor With Soft Magnetic Composite Core. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2492-2494	2	30
517	Low-Complexity Finite Control Set Model Predictive Control With Current Limit for Linear Induction Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 9243-9254	8.9	29
516	Multidisciplinary Design Analysis and Optimization of a PM Transverse Flux Machine With Soft Magnetic Composite Core. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	29
515	In-depth study of direct power control strategies for power converters. <i>IET Power Electronics</i> , 2014 , 7, 1810-1820	2.2	29

514	Modelling and control of hybrid UPS system with backup PEM fuel cell/battery. <i>International Journal of Electrical Power and Energy Systems</i> , 2012 , 43, 1322-1331	5.1	29
513	A Comparative Analysis of Fuel Economy and Emissions Between a Conventional HEV and the UTS PHEV. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 44-54	6.8	29
512	Discrete modelling of magnetic cores including hysteresis eddy current and anomalous losses. <i>IEE Proceedings, Part A: Science, Measurement and Technology</i> , 1993 , 140, 317		29
511	Fault Classification and Faulted Phase Selection Based on the Symmetrical Components of Reactive Power for Single-Circuit Transmission Lines. <i>IEEE Transactions on Power Delivery</i> , 2013 , 28, 2326-2332	4.3	28
510	A medium frequency transformer with multiple secondary windings for medium voltage converter based wind turbine power generating systems. <i>Journal of Applied Physics</i> , 2013 , 113, 17A324	2.5	28
509	Intelligent uninterruptible power supply system with back-up fuel cell/battery hybrid power source. <i>Journal of Power Sources</i> , 2008 , 179, 745-753	8.9	28
508	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> , 2021 , 7, 1427-1436	7.6	28
507	No-Load Magnetic Field and Cogging Force Calculation in Linear Permanent-Magnet Synchronous Machines With Semiclosed Slots. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5564-5575	8.9	27
506	Performance Characteristics of an HTS Linear Synchronous Motor With HTS Bulk Magnet Secondary. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 2469-2477	4.3	27
505	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 2995-2997	2	27
504	An Improved Third-Order Generalized Integral Flux Observer for Sensorless Drive of PMSMs. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 9149-9160	8.9	27
503	Suspension Force Modeling for a Bearingless Permanent Magnet Synchronous Motor Using Maxwell Stress Tensor Method. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-5	1.8	26
502	Calculation of Capacitance in High-Frequency Transformer Windings. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	26
501	Survey on electrical machines in electrical vehicles 2009 ,		26
500	A review on the virtual power plant: Components and operation systems 2016 ,		26
499	An Improved Deadbeat Predictive Stator Flux Control with Reduced-Order Disturbance Observer for In-Wheel PMSMs. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	26
498	Design and Analysis of a Novel Lightweight Translator Permanent Magnet Linear Generator for Oceanic Wave Energy Conversion. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	25
497	Core Loss Calculation Based on Finite-Element Method With Jiles-Atherton Dynamic Hysteresis Model. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	25

496	Robust Tolerance Design Optimization of a PM Claw Pole Motor With Soft Magnetic Composite Cores. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	25
495	Multiobjective Sequential Design Optimization of PM-SMC Motors for Six Sigma Quality Manufacturing. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 717-720	2	25
494	. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 5202617-5202617	1.8	25
493	Measurement and Modeling of Thermal Effects on Magnetic Hysteresis of Soft Ferrites. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 3952-3960	2	25
492	Measurement and modelling of magnetic properties of soft magnetic composite material under 2D vector magnetisations. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 302, 14-19	2.8	25
491	Effects of Design Parameters on the Multiphysics Performance of High-Speed Permanent Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3472-3483	8.9	25
490	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	7.6	25
489	High-Frequency Magnetic-Link Medium-Voltage Converter for Superconducting Generator-Based High-Power Density Wind Generation Systems. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	24
488	An Improved Multiquadric Collocation Method for 3-D Electromagnetic Problems. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1509-1512	2	24
487	Development of a slotless tubular linear interior permanent magnet micromotor for robotic applications. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3988-3990	2	24
486	. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4628-4640	7.2	23
485	Performance Analysis of an HTS Magnetic Suspension and Propulsion System With a Double-Sided HTS Linear Synchronous Motor. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 655-658	2	23
484	Robust Multidisciplinary Design Optimization of PM Machines With Soft Magnetic Composite Cores for Batch Production. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	22
483	Sequential Subspace Optimization Method for Electromagnetic Devices Design With Orthogonal Design Technique. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 479-482	2	22
482	A comparative study of Luenberger observer, sliding mode observer and extended Kalman filter for sensorless vector control of induction motor drives 2009 ,		22
481	Determination of 3D magnetic reluctivity tensor of soft magnetic composite material. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 312, 458-463	2.8	22
480	Measurement and modeling of core losses of soft magnetic composites under 3-D magnetic excitations in rotating motors. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3925-3927	2	22
479	Analysis and Optimization of Radial Force of Permanent-Magnet Synchronous Hub Motors. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	21

478	Model Predictive Torque Control With SVM for Five-Phase PMSM Under Open-Circuit Fault Condition. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 5531-5540	7.2	21
477	Core Loss Computation in a Permanent Magnet Transverse Flux Motor With Rotating Fluxes. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	21
476	Multiobjective Sequential Optimization Method for the Design of Industrial Electromagnetic Devices. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4538-4541	2	21
475	Transient Simulation and Analysis for Saturated Core High Temperature Superconducting Fault Current Limiter. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1813-1816	2	21
474	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> , 2006 , 153, 568		21
473	Enhanced Model Predictive Torque Control of Fault-Tolerant Five-Phase Permanent Magnet Synchronous Motor With Harmonic Restraint and Voltage Preselection. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 6259-6269	8.9	21
472	Oceanic Wave Energy Conversion by a Novel Permanent Magnet Linear Generator Capable of Preventing Demagnetization. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 6005-6014	4.3	20
471	A magnetically coupled multi-port, multi-operation-mode micro-grid with a predictive dynamic programming-based energy management for residential applications. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 104, 784-796	5.1	20
470	Energy Exchange Experiments and Performance Evaluations Using an Equivalent Method for a SMES Prototype. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-5	1.8	20
469	Magnetic Properties Measurement of Soft Magnetic Composite Materials Over Wide Range of Excitation Frequency. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 88-97	4.3	20
468	Robust Multilevel Optimization of PMSM Using Design for Six Sigma. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 3248-3251	2	20
467	Improved Sequential Optimization Method for High Dimensional Electromagnetic Device Optimization. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 3993-3996	2	20
466	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> , 2010 , 46, 1971-1974	2	20
465	An Efficient Antidisturbance Sliding-Mode Speed Control Method for PMSM Drive Systems. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 6879-6891	7.2	20
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284	Development of a Wound Rotor Brushless Doubly Fed Machine Based on Slot MMF Harmonics 2008		6
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257	Design and analysis of protection circuits for safe operation of direct matrix converters 2017 ,		5
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210	A novel model predictive sliding mode control for AC/DC converters with output voltage and load resistance variations 2016 ,		4
209	A protection scheme for AC microgrids based on multi-agent system combined with machine learning 2019 ,		4

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141	Finite-control-set model predictive direct torque control of PMSMs with virtual space vectors 2017 ,		2
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92	Rotational core loss features of soft magnetic composite materials under excitation frequencies from 5 Hz to 1000 Hz 2013 ,		1
91	Manufacturing processes of soft magnetic composite cores for permanent magnet machines 2017 ,		1
90	Parameter matching and structure optimal design of a brushless DC motor for a battery electric vehicle 2017 ,		1
89	Model predictive control applied to a single phase seven-level active rectifier 2017 ,		1
88	Core losses calculation of nanocrystalline alloy high frequency transformer considering magnetic hysteresis effects 2017 ,		1
87	Dynamic loss minimization control of linear induction machine 2017 ,		1
86	A review on 3-D magnetic property testing system for measuring rotational core loss of soft magnetic materials 2015 ,		1
85	Modeling the stress dependence of magnetic hysteresis based on Stoner-Wohlfarth theory 2015 ,		1
84	Thermal analysis of the conical rotor motor using LPTN combined with fluid simulation 2015 ,		1
83	Multiobjective design optimization for high-temperature superconducting linear synchronous motors with different primary topologies 2015 ,		1

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81	Terminal sliding mode speed controller based on vector control for brushless doubly fed machine 2011,		1
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74	Design and characteristics analysis of long-primary single-sided linear induction motor 2009,		1
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72	Modeling and control of power converters in UPS applications with PEM fuel cell 2009,		1
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