

Jianguo Zhu

List of Publications by Year in Descending Order

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Version: 2024-04-23

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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.

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	Privacy-Preserving Household Characteristic Identification With Federated Learning Method. <i>IEEE Transactions on Smart Grid</i> , 2022 , 13, 1088-1099	10.7	1
620	Fundamental Design and Modelling of the Superconducting Magnet for the High-Speed Maglev: Mechanics, Electromagnetics, and Loss Analysis during Instability. <i>Machines</i> , 2022 , 10, 113	2.9	1
619	Design and analysis of mechanical flux-weakening device of axial flux permanent magnet machines. <i>Journal of Power Electronics</i> , 2022 , 22, 653	0.9	
618	A hybrid Jiles-Atherton and prisach model of dynamic magnetic hysteresis based on backpropagation neural networks. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 544, 168655	2.8	2
617	Development of Equivalent Circuit Models of Permanent Magnet Synchronous Motors Considering Core Loss. <i>Energies</i> , 2022 , 15, 1995	3.1	2
616	Magnetothermal Coupling Analysis of Permanent Magnet Claw Pole Machine Using Combined 3D Magnetic and Thermal Network Method. <i>IEEE Transactions on Applied Superconductivity</i> , 2022 , 32, 1-5	1.8	1
615	Comparative Study of Permanent-Magnet Synchronous Machines with Different Rotor Topologies for High-Speed Applications. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4375	2.6	0
614	Three-Dimensional Numerical Characterization of High-Temperature Superconductor Bulks Subjected to Rotating Magnetic Fields. <i>Energies</i> , 2022 , 15, 3186	3.1	0
613	A Transfer Ensemble Learning Method for Evaluating Power Transformer Health Conditions with Limited Measurement Data. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	2
612	Position Sensorless Control of Switched Reluctance Motor Drives Based on a New Sliding Mode Observer Using Fourier Flux Linkage Model. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	2
611	Design and Analysis Technologies of High Speed Permanent Magnet Machines 2021 ,		1
610	Numerical Investigation of AC Loss in HTS Bulks Subjected to Rotating Magnetic Fields 2021 ,		1
609	Multiobjective Optimization of a Five-Phase Bearingless Permanent Magnet Motor Considering Winding Area. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-10	5.5	7
608	A High Thrust Density Voice Coil Actuator with A New Structure of Double Magnetic Circuits for CubeSat Deployers. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
607	Improved Finite-Control-Set Model Predictive Control with Virtual Vectors for PMSHM Drives. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
606	An Improved Cross-Yoke SST for Accurate 1&2D Magnetic Testing of Fe-Si Sheets. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 1-1	5.2	1
605	A Novel Robust Super-Twisting Nonsingular Terminal Sliding Mode Controller for Permanent Magnet Linear Synchronous Motors. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	9

604	Sensorless Control with Fault-Tolerant Ability for Switched Reluctance Motors. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	3
603	Analytical Calculation of Complex Relative Permeance Function and Magnetic Field in Slotted Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-9	2	1
602	Distributed model predictive control for joint coordination of demand response and optimal power flow with renewables in smart grid. <i>Applied Energy</i> , 2021 , 290, 116701	10.7	8
601	Design and performance analysis of a novel PM assisted synchronous reluctance machine. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2021 , 1-10	0.4	0
600	A novel flux switching claw pole machine with soft magnetic composite cores. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2021 , 1-21	0.4	1
599	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
598	No-Load Performance Analysis of an Asymmetric-Pole Single-Phase Doubly Salient Permanent Magnet Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2907-2918	8.9	1
597	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
596	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
595	Robust Design Optimization of Electrical Machines: Multi-Objective Approach. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 390-401	5.4	11
594	Robust Design Optimization of Electrical Machines: A Comparative Study and Space Reduction Strategy. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 300-313	5.4	7
593	Comprehensive Sensitivity Analysis and Multiphysics Optimization of the Rotor for a High Speed Permanent Magnet Machine. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 358-367	5.4	7
592	Improved Model Predictive Torque Control for PMSM Drives Based on Duty Cycle Optimization. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	18
591	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> , 2021 , 57, 1-4	2	17
590	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
589	3-D Modeling and Testing of a Stator-Magnet Transverse-Flux Linear Oscillatory Machine for Direct Compressor Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8474-8486	8.9	6
588	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
587	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

586	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
585	Fault-Tolerant Operation of a Six-Phase Permanent Magnet Synchronous Hub Motor Based on Model Predictive Current Control with Virtual Voltage Vectors. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	11
584	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
583	Topology, Modeling and Control Scheme for a New Seven-level Inverter with Reduced DC-Link Voltage. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	3
582	Increase in the Power Transfer Capability of Advanced Magnetic Material Based High Frequency Transformer by Using a Novel Distributed Winding Topology. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	1
581	Robust Design Optimization of Switched Reluctance Motor Drive Systems Based on System-Level Sequential Taguchi Method. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	11
580	Multiobjective and Multiphysics Design Optimization of a Switched Reluctance Motor for Electric Vehicle Applications. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	11
579	Sliding Mode Direct Torque Control of SPMSMs Based on a Hybrid Wolf Optimization Algorithm. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	16
578	. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 1-1	1.8	4
577	Deep Domain Adaptation for Non-Intrusive Load Monitoring Based on A Knowledge Transfer Learning Network. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	5
576	Design and Analysis of a New Permanent Magnet Claw Pole Machine With S-Shape Winding. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	1
575	Machine Learning for Design Optimization of Electromagnetic Devices: Recent Developments and Future Directions. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1627	2.6	11
574	Fuzzy-Based Distributed Cooperative Secondary Control with Stability Analysis for Microgrids. <i>Electronics (Switzerland)</i> , 2021 , 10, 399	2.6	3
573	Model Predictive Control of the Input Current and Output Voltage of a Matrix Converter as a Ground Power Unit for Airplane Servicing. <i>Sustainability</i> , 2021 , 13, 9715	3.6	1
572	Multimode Optimization of Switched Reluctance Machines in Hybrid Electric Vehicles. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 2217-2226	5.4	14
571	Improvement on Parameter Identification of Modified Jiles-Atherton Model for Iron Loss Calculation. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 542, 168602	2.8	0
570	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
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	Iron Loss Calculation for High-Speed Permanent Magnet Machines Considering Rotating Magnetic Field and Thermal Effects. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-5	1.8	0
567	Core Loss Calculation of Anode Saturable Reactor in Damping Oscillation State Based on J-A Theory. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-4	1.8	0
566	The High Frequency Magnetic-Link With Distributed HTS YBCO Windings for Power Converter Applications. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-5	1.8	0
565	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> , 2021 , 31, 1-4	1.8	3
564	Vibration Estimation in Power Transformers Based on Dynamic Magnetostriction Model and Finite-Element Analysis. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-4	1.8	2
563	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
562	Optimal Design of Terminal Sliding Mode Controller for Direct Torque Control of SRMs. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	8
561	Speed Sensorless Control for IPMSMs Using a Modified MRAS with Grey Wolf Optimization Algorithm. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	8
560	Magnetic Characteristic Analysis of High Temperature Superconductors by the Elemental Operator Model. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	
559	Model Predictive Sliding Control for Cascaded H-Bridge Multilevel Converters With Dynamic Current Reference Tracking. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	3
558	Measurement and Modeling of Rotational Core Loss of Fe Based Amorphous Magnetic Material under 2-D Magnetic Excitation. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	1
557	A Privacy-preserving Federated Learning Method for Probabilistic Community-level Behind-the-Meter Solar Generation Disaggregation. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	4
556	Robust Design Optimization of Electrical Machines Considering Hybrid Random and Interval Uncertainties. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 1815-1824	5.4	2
555	Distributed Secondary Control of Energy Storage Units for SoC balancing in AC Microgrid 2020 ,		1
554	Parameter Design for a High-Speed Permanent Magnet Machine Under Multiphysics Constraints. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 2025-2035	5.4	9
553	Design and Analysis of a Hybridly Excited Asymmetric Stator Pole Doubly Salient Machine. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 2600-2611	4.3	5
552	Effects of Uniaxial Stress Along Different Directions on Alternating Magnetic Properties of Silicon Steel Sheets. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	5
551	Topology Optimization of Ferromagnetic Components in Electrical Machines. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 786-798	5.4	4

550	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
549	A novel nonlinearity marginalization technique for effective solution of induction heating problems by cell method. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 245502	3	1
548	A Novel High Step-up Three-Port Bidirectional DC/DC Converter for PV-Battery Integrated System 2020 ,		2
547	Accurate torque modeling with PSO-based recursive robust LSSVR for a segmented-rotor switched reluctance motor. <i>CES Transactions on Electrical Machines and Systems</i> , 2020 , 4, 96-104	2.3	5
546	Multi-Objective Robust Optimization of a Dual-Flux-Modulator Magnetic Geared Machine With Hybrid Uncertainties. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 2106-2115	5.4	4
545	Design and performance analysis of a novel synchronous reluctance machine. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2020 , 63, 249-265	0.4	5
544	Detent Force Minimization of a Tubular Flux-Switching Permanent Magnet Motor Using Un-Equal Width Stator Slots Based on Taguchi Method. <i>IEEE Transactions on Applied Superconductivity</i> , 2020 , 30, 1-5	1.8	1
543	A Disturbance Rejection-Based Control Strategy for Five-Level T-Type Hybrid Power Converters With Ripple Voltage Estimation Capability. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 7364-7374	8.9	7
542	Comprehensive study of finite control set model predictive control algorithms for power converter control in microgrids. <i>IET Smart Grid</i> , 2020 , 3, 1-10	2.7	6
541	Transient potential distribution on transformer winding considering the effect of core lamination stack. <i>AIP Advances</i> , 2020 , 10, 015024	1.5	2
540	Analysis and Optimization of Radial Force of Permanent-Magnet Synchronous Hub Motors. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	21
539	A Dynamic Magnetostriction Model of Grain-Oriented Sheet Steels Based on Becker-Ding Crystal Magnetization Model and Jiles-Atherton Theory of Magnetic Hysteresis. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-5	2	7
538	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
537	An MRAS Speed Observer Based on Control Winding Flux for Sensorless Control of Stand-Alone BDFIGs. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 7271-7281	7.2	11
536	Low-Complexity Dual-Vector-Based Predictive Control of Three-Phase PWM Rectifiers Without Duty-Cycle Optimization. <i>IEEE Access</i> , 2020 , 8, 77049-77059	3.5	9
535	Application-Oriented System Level Optimization Method for Switched Reluctance Motor Drive Systems 2020 ,		1
534	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
533	A Reconfigurable Three-Port DC/DC Converter for Integrated PV-Battery System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3423-3433	5.6	19

532	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
531	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
530	3-D Analytical Magnetic Field Analysis of the Eddy Current Coupling With Halbach Magnets. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	7
529	Design, Implementation, and Stability Analysis of a Space Vector Modulated Direct Matrix Converter for Power Flow Control in a More Reliable and Sustainable Microgrid. <i>Sustainability</i> , 2020 , 12, 8591	3.6	1
528	Simplified Model Predictive Thrust Control Based Arbitrary Two Voltage Vectors for Linear Induction Machines in Metro Transportation. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 7092-7103	6.8	3
527	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
526	A review on mitigation technologies of low frequency current ripple injected into fuel cell and a case study. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 25167-25190	6.7	5
525	A generalized inverse Preisach dynamic hysteresis model of Fe-based amorphous magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 514, 167290	2.8	8
524	An Effective Method for Estimating State of Charge of Lithium-Ion Batteries Based on an Electrochemical Model and Nernst Equation. <i>IEEE Access</i> , 2020 , 8, 211738-211749	3.5	2
523	Modelling analysis of periodically arranged high-temperature superconducting tapes. <i>Physica C: Superconductivity and Its Applications</i> , 2020 , 578, 1353747	1.3	5
522	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
521	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
520	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
519	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
518	. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 1227-1238	7.2	31
517	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3901-3910	8.9	10
516	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
515	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

514	Design and Optimization of a Novel Dual-Port Linear Generator for Oceanic Wave Energy Conversion. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3409-3418	8.9	15
513	Performance Improvement of Model Predictive Current Control of Fault-Tolerant Five-Phase Flux-Switching Permanent Magnet Motor Drive. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 6001-6010 ⁹	4.3	10
512	Development of a High-Performance Axial Flux PM Machine With SMC Cores for Electric Vehicle Application. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	15
511	Rotor Stress Analysis for High-Speed Permanent Magnet Machines Considering Assembly Gap and Temperature Gradient. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 2276-2285	5.4	15
510	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
509	Weighting Factorless Model Predictive Thrust Control for Linear Induction Machine. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9916-9928	7.2	15
508	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> , 2019 , 29, 1-4	1.8	19
507	Cooling System Design of a High-Speed PMSM Based on a Coupled Fluidic-Thermal Model. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	9
506	Voltage Stabilization: A Critical Step Toward High Photovoltaic Penetration. <i>IEEE Industrial Electronics Magazine</i> , 2019 , 13, 17-30	6.2	34
505	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
504	Multi-Functional Model Predictive Control with Mutual Influence Elimination for Three-Phase AC/DC Converters in Energy Conversion. <i>Energies</i> , 2019 , 12, 1616	3.1	1
503	Design and development of a multi-winding high-frequency magnetic link for grid integration of residential renewable energy systems. <i>Applied Energy</i> , 2019 , 242, 1209-1225	10.7	10
502	Quasi-3-D Cylindrical Coordinate XFEM Model of HTS Cable. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	2
501	Analysis of Axial Field Flux-Switching Memory Machine Based on 3-D Magnetic Equivalent Circuit Network Considering Magnetic Hysteresis. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	16
500	Guest Editorial Joint Special Section on Power Conversion & Control in Photovoltaic Power Plants. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 159-160	5.4	1
499	Modeling and Operation of a Bearingless Fixed-Pole Rotor Induction Motor. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-4	1.8	5
498	Bidirectional power flow control with stability analysis of the matrix converter for microgrid applications. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 110, 725-736	5.1	8
497	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

496	A Least Mean Square Algorithm Based Single-Phase Grid Voltage Parameters Estimation Method 2019 ,		1
495	Finite-Set Model Predictive Power Control of Brushless Doubly Fed Twin Stator Induction Generator. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 2300-2311	7.2	19
494	. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4868-4882	7.2	4
493	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
492	An Analog BJT-Tuned Maximum Power Point Tracking Technique for PV Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 637-641	3.5	11
491	. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4628-4640	7.2	23
490	Copper Loss Analysis of a Multiwinding High-Frequency Transformer for a Magnetically-Coupled Residential Microgrid. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 283-297	4.3	8
489	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
488	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
487	Core Loss Minimization of the Linear Generator by Using High Graded Magnetic Materials for Harvesting Oceanic Wave Energy 2019 ,		2
486	A Novel Hybrid Excited Doubly Salient Machine With Asymmetric Stator Poles. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 4723-4732	4.3	8
485	High-frequency effects analysis of windings in magnetic properties tester with nanocrystalline core. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019 , 61, S81-S88	0.4	
484	An Analytical Loss Model of Litz-Wire Windings for Transformers Excited by Converters With Winding Configurations Considered. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	4
483	Designed Dynamic Reference With Model Predictive Control for Bidirectional EV Chargers. <i>IEEE Access</i> , 2019 , 7, 129362-129375	3.5	5
482	Comparative Analysis of Input Power Factor Control Techniques in Matrix Converters Based on Model Predictive and Space Vector Control Schemes. <i>IEEE Access</i> , 2019 , 7, 139150-139160	3.5	7
481	Reduction of Magnet Eddy Current Loss in PMSM by Using Partial Magnet Segment Method. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	13
480	A State Feedback Controller for PMSMs Based on Penalty Term Augmented Seeker Optimization Algorithm 2019 ,		1
479	A protection scheme for AC microgrids based on multi-agent system combined with machine learning 2019 ,		4

478	Health condition assessment of wind turbine generators based on supervisory control and data acquisition data. <i>IET Renewable Power Generation</i> , 2019 , 13, 1343-1350	2.9	6
477	Comparative Study of Axial Flux Vernier Machine with SMC Cores for Electric Vehicle Application 2019 ,		2
476	Comprehensive influences measurement and analysis of power converter low frequency current ripple on PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 31352-31359	6.7	9
475	Model predictive virtual power control of brushless doubly-fed induction generator for fast and smooth grid synchronisation. <i>IET Renewable Power Generation</i> , 2019 , 13, 3080-3087	2.9	2
474	Loss Analysis of the Permanent Magnet Motor with an Amorphous Stator Core by Considering the Influences of Manufacturing Processes 2019 ,		1
473	System-level efficiency optimization of a linear induction motor drive system. <i>CES Transactions on Electrical Machines and Systems</i> , 2019 , 3, 285-291	2.3	3
472	Comparison of matrix converter stabilisation techniques based on the damping resistor and digital filter approaches for bidirectional power flow control. <i>IET Power Electronics</i> , 2019 , 12, 3964-3976	2.2	2
471	Characterization of the Optimized High Frequency Transformer Using Nanocrystalline and Amorphous Magnetic Materials 2019 ,		2
470	Model Predictive Control without Weighting Factors for T-type Multilevel Inverters with Magnetic-Link and Series Stacked AC-DC Modules 2019 ,		1
469	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
468	An Amorphous Alloy Magnetic-Bus-Based SiC NPC Converter With Inherent Voltage Balancing for Grid-Connected Renewable Energy Systems. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-8	1.8	6
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