

Chun Gan

List of Publications by Year in descending order

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2,817
citations

147801

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107
docs citations

107
times ranked

1915
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Machine Topologies and Control Techniques for Low-Noise Switched Reluctance Motors in Electric Vehicle Applications. IEEE Access, 2018, 6, 31430-31443.	4.2	186
2	Investigation of Skewing Effects on the Vibration Reduction of Three-Phase Switched Reluctance Motors. IEEE Transactions on Magnetics, 2015, 51, 1-9.	2.1	122
3	New Integrated Multilevel Converter for Switched Reluctance Motor Drives in Plug-in Hybrid Electric Vehicles With Flexible Energy Conversion. IEEE Transactions on Power Electronics, 2017, 32, 3754-3766.	7.9	109
4	MMC-Based SRM Drives With Decentralized Battery Energy Storage System for Hybrid Electric Vehicles. IEEE Transactions on Power Electronics, 2019, 34, 2608-2621.	7.9	101
5	Finite States Model Predictive Control for Fault-Tolerant Operation of a Three-Phase Bidirectional AC/DC Converter Under Unbalanced Grid Voltages. IEEE Transactions on Industrial Electronics, 2018, 65, 819-829.	7.9	98
6	Split Converter-Fed SRM Drive for Flexible Charging in EV/HEV Applications. IEEE Transactions on Industrial Electronics, 2015, 62, 6085-6095.	7.9	83
7	Flexible Fault-Tolerant Topology for Switched Reluctance Motor Drives. IEEE Transactions on Power Electronics, 2016, 31, 4654-4668.	7.9	75
8	Fault diagnosis scheme for open-circuit faults in switched reluctance motor drives using fast Fourier transform algorithm with bus current detection. IET Power Electronics, 2016, 9, 20-30.	2.1	72
9	Phase Current Reconstruction of Switched Reluctance Motors From DC-Link Current Under Double High-Frequency Pulses Injection. IEEE Transactions on Industrial Electronics, 2015, 62, 3265-3276.	7.9	71
10	An Improved Model Predictive Control Strategy to Reduce Common-Mode Voltage for Two-Level Voltage Source Inverters Considering Dead-Time Effects. IEEE Transactions on Industrial Electronics, 2019, 66, 3561-3572.	7.9	68
11	Independent Phase Current Reconstruction Strategy for IPMSM Sensorless Control Without Using Null Switching States. IEEE Transactions on Industrial Electronics, 2018, 65, 4492-4502.	7.9	67
12	Multiport Bidirectional SRM Drives for Solar-Assisted Hybrid Electric Bus Powertrain With Flexible Driving and Self-Charging Functions. IEEE Transactions on Power Electronics, 2018, 33, 8231-8245.	7.9	64
13	Online Sensorless Position Estimation for Switched Reluctance Motors Using One Current Sensor. IEEE Transactions on Power Electronics, 2015, , 1-1.	7.9	62
14	Efficiency Optimization of PMSM Drives Using Field-Circuit Coupled FEM for EV/HEV Applications. IEEE Access, 2018, 6, 15192-15201.	4.2	62
15	Optimized Direct Instantaneous Torque Control for SRMs With Efficiency Improvement. IEEE Transactions on Industrial Electronics, 2021, 68, 2072-2082.	7.9	61
16	Wavelet Packet Decomposition-Based Fault Diagnosis Scheme for SRM Drives With a Single Current Sensor. IEEE Transactions on Energy Conversion, 2016, 31, 303-313.	5.2	57
17	Cascaded Multiport Converter for SRM-Based Hybrid Electrical Vehicle Applications. IEEE Transactions on Power Electronics, 2019, 34, 11940-11951.	7.9	50
18	Analytical Assessment for Transient Stability Under Stochastic Continuous Disturbances. IEEE Transactions on Power Systems, 2018, 33, 2004-2014.	6.5	49

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19	An Overview of Fault-Diagnosis and Fault-Tolerance Techniques for Switched Reluctance Machine Systems. IEEE Access, 2019, 7, 174822-174838.	4.2	49
20	Solar PV-Powered SRM Drive for EVs With Flexible Energy Control Functions. IEEE Transactions on Industry Applications, 2016, 52, 3357-3366.	4.9	48
21	A New Phase Current Reconstruction Scheme for Four-Phase SRM Drives Using Improved Converter Topology Without Voltage Penalty. IEEE Transactions on Industrial Electronics, 2018, 65, 133-144.	7.9	48
22	Predictive Control of Bidirectional Voltage Source Converter With Reduced Current Harmonics and Flexible Power Regulation Under Unbalanced Grid. IEEE Transactions on Energy Conversion, 2018, 33, 1118-1131.	5.2	47
23	Central-Tapped Node Linked Modular Fault-Tolerance Topology for SRM Applications. IEEE Transactions on Power Electronics, 2016, 31, 1541-1554.	7.9	46
24	Modular Tri-Port High-Power Converter for SRM Based Plug-in Hybrid Electrical Trucks. IEEE Transactions on Power Electronics, 2018, 33, 3247-3257.	7.9	45
25	OCTSF for torque ripple minimisation in SRMs. IET Power Electronics, 2016, 9, 2741-2750.	2.1	44
26	Low-cost direct instantaneous torque control for switched reluctance motors with bus current detection under soft-hopping mode. IET Power Electronics, 2016, 9, 482-490.	2.1	41
27	Modular Full-Bridge Converter for Three-Phase Switched Reluctance Motors With Integrated Fault-Tolerance Capability. IEEE Transactions on Power Electronics, 2019, 34, 2622-2634.	7.9	41
28	Hybrid Voltage Vector Preselection-Based Model Predictive Control for Two-Level Voltage Source Inverters to Reduce the Common-Mode Voltage. IEEE Transactions on Industrial Electronics, 2020, 67, 4680-4691.	7.9	40
29	High-Frequency Voltage Injection Sensorless Control Technique for IPMSMs Fed by a Three-Phase Four-Switch Inverter With a Single Current Sensor. IEEE/ASME Transactions on Mechatronics, 2018, 23, 758-768.	5.8	39
30	An Integrated Switched Reluctance Motor Drive Topology With Voltage-Boosting and On-Board Charging Capabilities for Plug-In Hybrid Electric Vehicles (PHEVs). IEEE Access, 2018, 6, 1550-1559.	4.2	36
31	DC-Biased Sinusoidal Current Excited Switched Reluctance Motor Drives Based on Flux Modulation Principle. IEEE Transactions on Power Electronics, 2020, 35, 10614-10628.	7.9	33
32	Improved Fuzzy-Based Taguchi Method for Multi-Objective Optimization of Direct-Drive Permanent Magnet Synchronous Motors. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	32
33	Investigation of Spatial Harmonic Magnetic Field Coupling Effect on Torque Ripple for Multiphase Induction Motor Under Open Fault Condition. IEEE Transactions on Power Electronics, 2018, 33, 6060-6071.	7.9	31
34	Online Calibration of Sensorless Position Estimation for Switched Reluctance Motors With Parametric Uncertainties. IEEE Transactions on Power Electronics, 2020, 35, 12307-12320.	7.9	31
35	A Gain Scheduling Wide-Area Damping Controller for the Efficient Integration of Photovoltaic Plant. IEEE Transactions on Power Systems, 2019, 34, 1703-1715.	6.5	29
36	Analytic Analysis for Dynamic System Frequency in Power Systems Under Uncertain Variability. IEEE Transactions on Power Systems, 2019, 34, 982-993.	6.5	28

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37	Stochastic Dynamic Analysis for Power Systems Under Uncertain Variability. IEEE Transactions on Power Systems, 2018, 33, 3789-3799.	6.5	27
38	A Universal Two-Sensor Current Detection Scheme for Current Control of Multiphase Switched Reluctance Motors With Multiphase Excitation. IEEE Transactions on Power Electronics, 2019, 34, 1526-1539.	7.9	27
39	A Position Sensorless Torque Control Strategy for Switched Reluctance Machines With Fewer Current Sensors. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1118-1128.	5.8	26
40	Fault-Tolerant Control Strategy of the Open-Winding Inverter for DC-Biased Vernier Reluctance Machines. IEEE Transactions on Power Electronics, 2019, 34, 1658-1671.	7.9	25
41	Components Sharing Based Integrated HVDC Circuit Breaker for Meshed HVDC Grids. IEEE Transactions on Power Delivery, 2020, 35, 1856-1866.	4.3	24
42	Investigation of Short Permanent Magnet and Stator Flux Bridge Effects on Cogging Torque Mitigation in FSPM Machines. IEEE Transactions on Energy Conversion, 2018, 33, 845-855.	5.2	23
43	Optimal Design of Saturated Switched Reluctance Machine for Low Speed Electric Vehicles by Subset Quasi-Orthogonal Algorithm. IEEE Access, 2019, 7, 101086-101095.	4.2	21
44	Renewable energy-fed switched reluctance motor for PV pump applications. , 2014, , .		20
45	Performance Analysis of a Four-Switch Three-Phase Grid-Side Converter with Modulation Simplification in a Doubly-Fed Induction Generator-Based Wind Turbine (DFIG-WT) with Different External Disturbances. Energies, 2017, 10, 706.	3.1	20
46	Cost-Effective Current Measurement Technique for Four-Phase SRM Control by Split Dual Bus Line Without Pulse Injection and Voltage Penalty. IEEE Transactions on Industrial Electronics, 2018, 65, 4553-4564.	7.9	20
47	Fault-Tolerant Operation of DFIG-WT With Four-Switch Three-Phase Grid-Side Converter by Using Simplified SVPWM Technique and Compensation Schemes. IEEE Transactions on Industry Applications, 2019, 55, 659-669.	4.9	20
48	A Simplified PWM Strategy for Open-Winding Flux Modulated Doubly-Salient Reluctance Motor Drives With Switching Action Minimization. IEEE Transactions on Industrial Electronics, 2023, 70, 2241-2253.	7.9	19
49	Coordinated Control of DFIG Based Wind Farms and SGs for Improving Transient Stability. IEEE Access, 2018, 6, 46844-46855.	4.2	18
50	Dual-Electric-Port Bidirectional Flux-Modulated Switched Reluctance Machine Drive With Multiple Charging Functions for Electric Vehicle Applications. IEEE Transactions on Power Electronics, 2021, 36, 5818-5831.	7.9	18
51	DSSRM Design With Multiple Pole Arcs Optimization for High Torque and Low Torque Ripple Applications. IEEE Access, 2018, 6, 27166-27175.	4.2	16
52	Finite-state model predictive power control of three-phase bidirectional AC/DC converter under unbalanced grid faults with current harmonic reduction and power compensation. IET Power Electronics, 2018, 11, 348-356.	2.1	15
53	Winding-centred tapped switched reluctance motor drive for multi-source charging in electric vehicle applications. IET Power Electronics, 2015, 8, 2067-2075.	2.1	14
54	A Novel Direct-Drive Permanent Magnet Synchronous Motor with Toroidal Windings. Energies, 2019, 12, 432.	3.1	14

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55	Comparative Study of Harmonic Current Suppression Control Strategies for Six-Phase DC-Biased Vernier Reluctance Machines. IEEE Transactions on Industry Applications, 2018, 54, 5843-5855.	4.9	13
56	Asynchronized Synchronous Motor-Based More Electric Ship"Less Power Electronics for More System Reliability. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2353-2364.	5.8	13
57	A Multiplexed Current Sensors-Based Phase Current Detection Scheme for Multiphase SRMs. IEEE Transactions on Industrial Electronics, 2019, 66, 6824-6835.	7.9	13
58	Independent Current Control of Dual Parallel SRM Drive Using a Public Current Sensor. IEEE/ASME Transactions on Mechatronics, 2017, 22, 392-401.	5.8	12
59	Flexible Energy Conversion Control Strategy for Brushless Dual-Mechanical-Port Dual-Electrical-Port Machine in Hybrid Vehicles. IEEE Transactions on Power Electronics, 2019, 34, 3910-3920.	7.9	12
60	Zero-Sequence Current Suppression Method for Fault-Tolerant OW-PMSM Drive With Asymmetric Zero-Sequence Voltage Injection. IEEE Transactions on Industrial Electronics, 2023, 70, 2351-2362.	7.9	12
61	Investigation of direct torque control and torque sharing function strategy for switched reluctance motor applications. , 2015, , .		11
62	Modeling, Analysis, and Attenuation of Uncontrolled Generation for IPMSM-Based Electric Vehicles in Emergency. IEEE Transactions on Industrial Electronics, 2020, 67, 4453-4462.	7.9	10
63	Synthetic Internal Voltage Phase"Amplitude Dynamics Investigation for Electric Drivetrain Small-Signal Model in Electromechanical Control Timescale for a Wound Rotor Induction Machine-Based Shipboard Power System. IEEE Transactions on Transportation Electrification, 2020, 6, 844-855.	7.8	10
64	Regional Area Protection Scheme for Modern Distribution System. IEEE Transactions on Smart Grid, 2019, 10, 5416-5426.	9.0	9
65	Power Converter Topologies and Control Strategies for DC-Biased Vernier Reluctance Machines. IEEE Transactions on Industrial Electronics, 2020, 67, 4350-4359.	7.9	9
66	Speed Adaptative Sensorless Control Method of a High-speed Dual Three-phase Permanent Magnet Synchronous Motor. , 2020, , .		9
67	Multi-Objective Design Optimization of a Tubular Permanent Magnet Linear Generator With 120° Phase Belt Toroidal Windings. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 236-247.	5.4	8
68	Instantaneous Torque Modeling and Torque Ripple Reduction Strategy for Flux Modulated Doubly-Salient Reluctance Motor Drives. IEEE Transactions on Industrial Electronics, 2022, 69, 9838-9848.	7.9	8
69	Comparative Study of Dual-Rotor Slotless Axial-Flux Permanent Magnet Machines With Equidirectional Toroidal and Conventional Concentrated Windings. IEEE Transactions on Industrial Electronics, 2023, 70, 1216-1228.	7.9	8
70	Dual Three-Phase Flux-Modulated Switched Reluctance Motor Drive With Maximum Torque per Ampere Strategy. IEEE Transactions on Industry Applications, 2021, 57, 5806-5817.	4.9	7
71	Impedance-Based Stability Analysis of Less Power Electronics Integrated Electric Shipboard Propulsion System Considering Operation Mode, PLL, and DC-Bus Voltage Control Effect. IEEE Transactions on Vehicular Technology, 2021, 70, 2219-2230.	6.3	7
72	Design and analysis on switched reluctance motor system using field-circuit coupled method. , 2014, , .		6

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73	Cogging torque reduction in FSPM machines with short magnets and stator lamination bridge structure. , 2016, , .		6
74	Overview on fault-tolerant four-switch three-phase voltage source converters. Chinese Journal of Electrical Engineering, 2017, 3, 87-101.	3.4	6
75	Analytic Estimation Method of Forced Oscillation Amplitude Under Stochastic Continuous Disturbances. IEEE Transactions on Smart Grid, 2019, 10, 4026-4036.	9.0	6
76	Power Factor Analysis and Maximum Power Factor Control Strategy for Six-Phase DC-Biased Vernier Reluctance Machines. IEEE Transactions on Industry Applications, 2019, 55, 4643-4652.	4.9	6
77	A Physical Faulty Model Based on Coil Sub-Element for Direct-Drive Permanent Magnet Synchronous Motor With Stator Winding Short-Circuit Faults. IEEE Access, 2019, 7, 151307-151319.	4.2	6
78	Emulated Stator Voltage-Oriented Vector Control of DFIM-SPS With Coupling Effect Elimination for Electric Ship Applications. IEEE Transactions on Transportation Electrification, 2021, 7, 1615-1627.	7.8	6
79	Comprehensive Investigation of Loss Calculation and Sequential Iterative Fluid-Solid Coupling Schemes for High-Speed Switched Reluctance Motors. IEEE Transactions on Energy Conversion, 2021, 36, 671-681.	5.2	6
80	Tri-port converter for flexible energy control of PV-fed electric vehicles. , 2015, , .		5
81	Investigation of rotor strength and rotor dynamics for high-speed high-power switched reluctance machines. IET Electric Power Applications, 2020, 14, 1624-1630.	1.8	5
82	Power Compensation-Oriented SVM-DPC Strategy for a Fault-Tolerant Back-to-Back Power Converter Based DFIM Shipboard Propulsion System. IEEE Transactions on Industrial Electronics, 2022, 69, 8716-8726.	7.9	5
83	Auxiliary Circuit Free Maximum Power Efficiency Tracking Scheme for Wireless Motor System With Source-Load Coupling. IEEE Transactions on Industrial Electronics, 2023, 70, 3414-3425.	7.9	5
84	A novel boost chopper converter-based torque sharing function control strategy for switched reluctance motors. , 2017, , .		4
85	Rotor Eddy Current Loss Calculation of a 2DoF Direct-Drive Induction Motor. Energies, 2019, 12, 1134.	3.1	4
86	Phase Current Reconstruction of Open-Winding Synchronous Reluctance Motor Based on Edge-Alignment and Phase-Shift Strategy. IEEE Transactions on Power Electronics, 2022, 37, 5173-5185.	7.9	4
87	An Axial-Flux Dual-Rotor Slotless Permanent Magnet Motor with Novel Equidirectional Toroidal Winding. IEEE Transactions on Energy Conversion, 2021, , 1-1.	5.2	4
88	A Capacitor Voltage Sorting Algorithm for Modular Multilevel Converters(MMC) under Low-Frequency Carrier Modulation. , 2019, , .		3
89	MTPA Control Strategy for Six-phase DC-biased Hybrid Excitation Vernier Reluctance Machines. , 2019, , .		3
90	Input-Output Small-Signal Stability Analysis of a PLL-Free Direct Power-Controlled Partially Power-Decoupled More-Electric Shipboard Propulsion System. IEEE Transactions on Transportation Electrification, 2021, 7, 1672-1686.	7.8	3

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91	A novel battery charging control scheme for on-board charger integrated switched reluctance motor drive. , 2014, , .		2
92	Field-circuit coupled design and analysis for permanent magnet synchronous motor system used in electric vehicles. , 2017, , .		2
93	Fault-tolerant operation of DFIG-WT with four-switch three-phase grid-side converter by applying a simplified SVPWM technique. , 2017, , .		2
94	A Multifunctional Isolated and Non-Isolated Dual Mode Converter for Renewable Energy Conversion Applications. Energies, 2017, 10, 1980.	3.1	2
95	Comparison of the Electromagnetic Characteristics of a Novel Gramme Winding and a Concentrated Winding Tubular Permanent-Magnet Linear Generator. Energies, 2020, 13, 5943.	3.1	2
96	Analysis of a directâ€drive permanent magnet synchronous generator with novel toroidal winding. IET Renewable Power Generation, 2021, 15, 2237-2245.	3.1	2
97	Novel modelling method based on winding subâ€element of directâ€drive permanent magnet synchronous motor. IET Electric Power Applications, 2020, 14, 1078-1088.	1.8	2
98	Direct Power Control of Fault-Tolerant Converter-Based Doubly-Fed Induction Machine Electric Drivetrain for Ship Propulsion. , 2020, , .		2
99	Suppressing control of rising bus voltage for switched reluctance motor in braking operation. , 2014, , .		1
100	Stochastic Stability Analysis of the Power System with Losses. Energies, 2018, 11, 678.	3.1	1
101	Research on powerâ€angle characteristics of permanent magnet linear synchronous motor. IET Electric Power Applications, 2019, 13, 1177-1183.	1.8	1
102	A Simplified Current Detection Method with Multipulse Injection and Sampling Hold for Five-Phase Switched Reluctance Motor Drives. , 2019, , .		1
103	Development of Switched Reluctance Motor Drives with Power Factor Correction Charging Function for Electric Vehicle Application. , 2019, , .		1
104	Fault diagnosis of power converter for switched reluctance motor based on discrete degree analysis of wavelet packet energy. , 2013, , .		0
105	A nonparametric denoising approach for thevenin equivalent parameters estimation based on taut-string-multiresolution algorithm. , 2017, , .		0
106	A Phase Current Sampling Strategy for Multiphase Switched Reluctance Machines by Pulses Injection and Multi-Frequency Pluse Auxiliary. , 2019, , .		0
107	A Direct Starting Method of Doubly-Fed Induction Machine for Shipboard Propulsion System Application. , 2021, , .		0