

Nan Jin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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.	5.2	98
2	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.	5.2	68
3	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.	5.4	64
4	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.	5.2	48
5	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.	3.7	47
6	A Model Predictive Control Method for Grid-Connected Power Converters Without AC Voltage Sensors. IEEE Transactions on Industrial Electronics, 2021, 68, 1299-1310.	5.2	43
7	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.	5.2	40
8	Analysis and Design of a Wireless Power Transfer System with Dual Active Bridges. Energies, 2017, 10, 1588.	1.6	38
9	Double-Vector Model-Free Predictive Control Method for Voltage Source Inverter With Visualization Analysis. IEEE Transactions on Industrial Electronics, 2022, 69, 10066-10078.	5.2	26
10	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.	5.2	20
11	An Inductance Online Identification-Based Model Predictive Control Method for Grid-Connected Inverters With an Improved Phase-Locked Loop. IEEE Transactions on Transportation Electrification, 2022, 8, 2695-2709.	5.3	17
12	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.	1.5	15
13	Sliding mode observer-based AC voltage sensorless model predictive control for grid-connected inverters. IET Power Electronics, 2020, 13, 2077-2085.	1.5	13
14	Wireless Power Transfer for Battery Powering System. Electronics (Switzerland), 2018, 7, 178.	1.8	12
15	Model Predictive Direct Power Control for Nonredundant Fault Tolerant Grid-Connected Bidirectional Voltage Source Converter. Energies, 2017, 10, 1133.	1.6	11
16	Model Predictive Control for Virtual Synchronous Generator with Improved Vector Selection and Reconstructed Current. Energies, 2020, 13, 5435.	1.6	11
17	Bidirectional Information Transmission in SWIPT System with Single Controlled Chopper Receiver. Electronics (Switzerland), 2019, 8, 1027.	1.8	10
18	Hybrid Multi-Vector Modulated Model Predictive Control Strategy for Voltage Source Inverters Based on a New Visualization Analysis Method. IEEE Transactions on Transportation Electrification, 2023, 9, 8-21.	5.3	10

#	ARTICLE	IF	CITATIONS
19	A Novel Synchronization Technique for Wireless Power Transfer Systems. Electronics (Switzerland), 2018, 7, 319.	1.8	9
20	A GaN-Based Wireless Power and Information Transmission Method Using Dual-Frequency Programmed Harmonic Modulation. IEEE Access, 2020, 8, 49848-49856.	2.6	9
21	An Inductance Online Identification Method for Model Predictive Control of V2G Inverter With Enhanced Robustness to Grid Frequency Deviation. IEEE Transactions on Transportation Electrification, 2022, 8, 1575-1589.	5.3	9
22	Constant-Frequency Model Predictive Direct Power Control for Fault-Tolerant Bidirectional Voltage-Source Converter with Balanced Capacitor Voltage. Energies, 2018, 11, 2692.	1.6	8
23	Bidirectional Simultaneous Wireless Information and Power Transfer via Sharing Inductive Link and Single Switch in the Secondary Side. IEEE Access, 2020, 8, 184187-184198.	2.6	8
24	Current Sensor-Less Virtual Synchronous Generator Model Predictive Control Based on Sliding Mode Observer. IEEE Access, 2021, 9, 17898-17908.	2.6	8
25	Dynamic Cost Function Based Predictive Torque Control for Permanent Magnet Synchronous Motor Without Using Weighting Factor. , 2018, , .		7
26	A Novel Simultaneous Wireless Information and Power Transfer System. , 2019, , .		7
27	A Simultaneous Wireless Information and Power Transfer System With Independent Channel for Information Transfer. IEEE Access, 2020, 8, 125610-125619.	2.6	7
28	Model predictive power control for a fault-tolerant grid-connected converter using reconstructed currents. IET Power Electronics, 2020, 13, 1181-1190.	1.5	7
29	A weighted voltage model predictive control method for a virtual synchronous generator with enhanced parameter robustness. Protection and Control of Modern Power Systems, 2021, 6, .	4.3	7
30	Virtual Vector-Based FCS-MPC for NPC Three-Level Grid-Tied Inverter Without Weighting Factor of Neutral-Point Voltage Balancing. IEEE Access, 2022, 10, 72806-72814.	2.6	7
31	Analysis and Elimination of Dead-Time Effect in Wireless Power Transfer System. Energies, 2018, 11, 1577.	1.6	6
32	Dual-Frequency Output of Wireless Power Transfer System with Single Inverter Using Improved Differential Evolution Algorithm. Energies, 2020, 13, 2209.	1.6	6
33	A Unipolar-Duty-Cycle Hybrid Control Strategy of Series-Series Compensated IPT System for Constant-Current Output and Efficiency Optimization. IEEE Transactions on Power Electronics, 2022, 37, 13884-13901.	5.4	6
34	Model Predictive Current Control for Fault-Tolerant Bidirectional Voltage Source Converter With Open Circuit Fault and Unbalanced Grid Voltage. IEEE Access, 2020, 8, 154966-154974.	2.6	5
35	Dynamic reactive power optimization of distribution network with distributed generation based on fuzzy time clustering. IET Generation, Transmission and Distribution, 2022, 16, 1349-1363.	1.4	5
36	Hybrid voltage vector preselection based model predictive control to reduce the common-mode voltage for 2-level voltage source inverters. IET Power Electronics, 2019, 12, 541-549.	1.5	4

#	ARTICLE	IF	CITATIONS
37	Model Predictive Control for Three-Phase Unbalance Compensation under Three-Phase Four-Wire Power System. , 2019, , .		4
38	Dual-Frequency Programmed Harmonics Modulation-based Simultaneous Wireless Information and Power Transfer System via a Common Resonance Link. Sustainability, 2020, 12, 4189.	1.6	4
39	A Capacitor Voltage Balancing Control Strategy for Modular Multilevel Converter. Electric Power Components and Systems, 2020, 48, 1410-1420.	1.0	4
40	Statistical Model of Foreign Object Detection for Wireless EV Charger. , 2019, , .		4
41	Topology and Control of Two-Stage Bidirectional AC/DC Fault Tolerant Converter. , 2018, , .		3
42	A Novel Single-switch Phase Controlled Wireless Power Transfer System. Electronics (Switzerland), 2018, 7, 281.	1.8	3
43	Finite states model predictive direct power control for phase leg faults tolerant operation of bidirectional AC/DC converter. , 2018, , .		3
44	An Alterable Structure Power Router with General AC and DC Port for Microgrid Applications. Energies, 2019, 12, 1815.	1.6	3
45	A Dual-Vector Modulated Model Predictive Control Method for Voltage Source Inverters with a New Duty Cycle Calculation Method. Energies, 2020, 13, 4200.	1.6	3
46	A Novel Inductive Pulsed Power Supply Consisting of a Three-Winding Pulse Transformer With Parallel Switching Scheme. IEEE Transactions on Plasma Science, 2020, , 1-6.	0.6	3
47	AC chopper dynamic voltage swells restorer design. , 2012, , .		2
48	Multi-vector Model Predictive Direct Power Control for Fault-tolerant Bidirectional AC/DC Converter. , 2019, , .		2
49	A Novel Conception of SWIPT System Considering Information Independent Transmission. , 2019, , .		2
50	A Double-Voltage Vector Based Model Predictive Control Method for Three Phase Four-Switch Fault-Tolerant Converter. , 2019, , .		2
51	A Grid Impedance Identification Method Based on Complex Coefficient Filter Considering DC Offset Effects. , 2019, , .		2
52	Eigenvector Lookup Position Detection Method for Wireless Power Transfer of Electric Vehicles. , 2019, , .		2
53	Double-voltage vector-based model predictive control for three-phase grid-connected AC/DC converters. Journal of Power Electronics, 2020, 20, 236-244.	0.9	2
54	Model Predictive Fault Tolerant Control of Bidirectional AC/DC Converter with Voltage Balance of Split Capacitor. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
55	A Novel Power Router with General AC and DC Port. , 2019, , .		1
56	Information Reverse Transmission Method for Bidirectional WPT with Dual Active Bridges. , 2019, , .		1
57	Design Consideration of Bidirectional Wireless Power Transfer and Full-Duplex Communication System via a Shared Inductive Channel. Energies, 2021, 14, 4918.	1.6	1
58	A Dual-Vector Modulated MPC Method for Grid-tied Inverter: Visualization Analysis and Verification. , 2021, , .		1
59	Numerical analysis of the shifting slabs applied in a wireless power transfer system to enhance magnetic coupling. AIP Advances, 2017, 7, 055011.	0.6	0
60	A hybrid excitation machine with AC flux control winding. , 2017, , .		0
61	Simulation of Information Bidirectional Transmission Using Single Switch Receiver in a SWIPT System. , 2018, , .		0
62	A Complex Coefficient Filter-Based Grid Impedance Identification Method Considering the Effects of the Grid Background Harmonics. , 2019, , .		0
63	Model Predictive Control of Grid-connected Converter Based on Virtual Synchronous Machine. , 2019, , .		0
64	Model Predictive Control for Three-Phase Four-Wire Power Quality Control under Unbalanced Power Grid. , 2019, , .		0
65	Research on Energy Recovery of Superconducting Pulsed Power Supply. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	0
66	Preliminary Analysis and Simulation of a 20-Hz Repetitive Superconducting Pulsed Power Supply. IEEE Transactions on Plasma Science, 2021, , 1-8.	0.6	0
67	Robust Model Predictive Current Control Method for Grid-Connected Converter Based on Weighted Strategy. , 2021, , .		0
68	Comparative Study of PI Control and Model Predictive Control for Power Converters with LC Filter. , 2021, , .		0
69	Multipole Field Cylindrical Reconnection Electromagnetic Launcher. IEEE Transactions on Plasma Science, 2022, 50, 2256-2262.	0.6	0