

Sang-Shin Kwak

List of Publications by Year in Descending Order

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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.

74
papers

1,083
citations

18
h-index

31
g-index

88
ext. papers

1,441
ext. citations

3.6
avg, IF

5.4
L-index

#	Paper	IF	Citations
74	Indirect MPC method with improved output voltage and current waveforms for MMCs. <i>Journal of Power Electronics</i> , 2022 , 22, 674	0.9	0
73	Detection Algorithms of Parallel Arc Fault on AC Power Lines Based on Deep Learning Techniques. <i>Journal of Electrical Engineering and Technology</i> , 2022 , 17, 1195	1.4	1
72	Parallel DC Arc Failure Detecting Methods Based on Artificial Intelligent Techniques. <i>IEEE Access</i> , 2022 , 10, 26058-26067	3.5	2
71	Deep learning-based estimation technique for capacitance and ESR of input capacitors in single-phase DC/AC converters. <i>Journal of Power Electronics</i> , 2022 , 22, 513-521	0.9	0
70	Different Domains Based Machine and Deep Learning Diagnosis for DC Series Arc Failure. <i>IEEE Access</i> , 2021 , 9, 166249-166261	3.5	3
69	DC series arc diagnosis based on deep-learning algorithm with frequency-domain characteristics. <i>Journal of Power Electronics</i> , 2021 , 21, 1900	0.9	4
68	Design of High-Power Ultra-High-Speed Rotor for Portable Mechanical Antenna Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
67	DC Series Arc Detection Algorithm Based on Adaptive Moving Average Technique. <i>IEEE Access</i> , 2021 , 9, 94426-94437	3.5	6
66	Three-phase three-level four-leg NPC converters with advanced model predictive control. <i>Journal of Power Electronics</i> , 2021 , 21, 1574-1584	0.9	2
65	Deep learning-based series AC arc detection algorithms. <i>Journal of Power Electronics</i> , 2021 , 21, 1621-1631	0.9	6
64	Hybrid System Control for Robot Motors Based on a Reduced Component, Multi-Voltage Power Supply System. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	1
63	Predictive Nearest-Level Control Algorithm for Modular Multilevel Converters With Reduced Harmonic Distortion. <i>IEEE Access</i> , 2021 , 9, 4769-4783	3.5	3
62	Series DC Arc Fault Detection Using Machine Learning Algorithms. <i>IEEE Access</i> , 2021 , 1-1	3.5	8
61	Nearest-Level Control Method With Improved Output Quality for Modular Multilevel Converters. <i>IEEE Access</i> , 2020 , 8, 110237-110250	3.5	21
60	A Study on Model Predictive Current Control Method of Power Converter for Fast Dynamics Response in OWC Wave Energy Converter. <i>Journal of the Korean Society for Marine Environment & Energy</i> , 2020 , 23, 1-12	0.4	1
59	Model Predictive Control Method With NP Voltage Balance by Offset Voltage Injection for Three-Phase Three-Level NPC Inverter. <i>IEEE Access</i> , 2020 , 8, 172175-172195	3.5	6
58	Simplified Model Predictive Control with preselection Technique for Reduction of Calculation Burden in 3-Level 4-Leg NPC Inverter 2020 ,		1

57	Review of Health Monitoring Techniques for Capacitors Used in Power Electronics Converters. <i>Sensors</i> , 2020 , 20,	3.8	2
56	Frequency-Domain Characteristics of Series DC Arcs in Photovoltaic Systems with Voltage-Source Inverters. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8042	2.6	8
55	. <i>IEEE Access</i> , 2020 , 8, 136828-136842	3.5	2
54	Improved Indirect Model Predictive Control for Enhancing Dynamic Performance of Modular Multilevel Converter. <i>Electronics (Switzerland)</i> , 2020 , 9, 1405	2.6	4
53	Experimental Comparisons and Evaluations of Different Types of DC-link Capacitors for VSI-Based Electric Compressors in Battery Electric Vehicle Systems. <i>Electronics (Switzerland)</i> , 2020 , 9, 1276	2.6	2
52	Three-Phase Three-Level Neutral Point Clamped Rectifier with Predictive Control Method without Employing Weighting Factor. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5149	2.6	2
51	Model Predictive Control Method Based on Deterministic Reference Voltage for Single-Phase Three-Level NPC Converters. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8840	2.6	2
50	Enhance Reliability of Semiconductor Devices in Power Converters. <i>Electronics (Switzerland)</i> , 2020 , 9, 2068	2.6	7
49	Power Performance Analysis According to the Configuration and Load Control Algorithm of Power Take-Off System for Oscillating Water Column Type Wave Energy Converters. <i>Energies</i> , 2020 , 13, 6415	3.1	3
48	A Comprehensive Double-Vector Approach to Alleviate Common-Mode Voltage in Three-Phase Voltage-Source Inverters with a Predictive Control Algorithm. <i>Electronics (Switzerland)</i> , 2019 , 8, 872	2.6	6
47	Power Factor Control Method Based on Virtual Capacitors for Three-Phase Matrix Rectifiers. <i>IEEE Access</i> , 2019 , 7, 12484-12494	3.5	6
46	Model Predictive Current Control Method with Improved Performances for Three-Phase Voltage Source Inverters. <i>Electronics (Switzerland)</i> , 2019 , 8, 625	2.6	13
45	Open-Circuit Switch-Fault Tolerant Control of a Modified Boost DCDC Converter for Alternative Energy Systems. <i>IEEE Access</i> , 2019 , 7, 69535-69544	3.5	3
44	Direct Power Control Method With Minimum Reactive Power Reference for Three-Phase AC-to-DC Matrix Rectifiers Using Space Vector Modulation. <i>IEEE Access</i> , 2019 , 7, 67515-67525	3.5	7
43	A Compromising Approach to Switching Losses and Waveform Quality in Three-phase Voltage Source Converters with Double-vector based Predictive Control Method. <i>Electronics (Switzerland)</i> , 2019 , 8, 1372	2.6	1
42	Direct Power-Based Three-Phase Matrix Rectifier Control with Input Power Factor Adjustment. <i>Electronics (Switzerland)</i> , 2019 , 8, 1427	2.6	1
41	Quad-bus motor drive system for electrified vehicles based on a dual-output single-inductor structure. <i>IET Electric Power Applications</i> , 2019 , 13, 1985-1992	1.8	2
40	Predictive Control Method Based on Adjacent Vector Confinement Technique for a Three-Phase AC-DC Matrix Converter with High Efficiency. <i>Electronics (Switzerland)</i> , 2019 , 8, 1535	2.6	

39	Reduction of DC Current Ripples by Virtual Space Vector Modulation for Three-Phase ACDC Matrix Converters. <i>Energies</i> , 2019 , 12, 4319	3.1	2
38	Switching Loss Balancing Technique for Modular Multilevel Converters Operated by Model Predictive Control Method. <i>Electronics (Switzerland)</i> , 2019 , 8, 1175	2.6	3
37	Phase-Shifted Carrier Pulse-Width Modulation Algorithm With Improved Dynamic Performance for Modular Multilevel Converters. <i>IEEE Access</i> , 2019 , 7, 170949-170960	3.5	11
36	Modular Multilevel Converters (MMCs) Controlled by Model Predictive Control With Reduced Calculation Burden. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 9176-9187	7.2	49
35	Predictive Direct Power Control Technique for Voltage Source Converter With High Efficiency. <i>IEEE Access</i> , 2018 , 6, 23540-23550	3.5	4
34	Direct model-based predictive control scheme without cost function for voltage source inverters with reduced common-mode voltage. <i>International Journal of Electronics</i> , 2018 , 105, 629-644	1.2	5
33	Model Predictive Virtual Flux Control to Improve Performance Under Distorted Input Voltage Conditions. <i>IEEE Access</i> , 2018 , 6, 34921-34933	3.5	9
32	A Highly Efficient Single-Phase Three-Level Neutral Point Clamped (NPC) Converter Based on Predictive Control with Reduced Number of Commutations. <i>Energies</i> , 2018 , 11, 3524	3.1	8
31	Performance Comparison of Model Predictive Control Methods for Active Front End Rectifiers. <i>IEEE Access</i> , 2018 , 6, 77272-77288	3.5	11
30	Simplified Indirect Model Predictive Control Method for a Modular Multilevel Converter. <i>IEEE Access</i> , 2018 , 6, 62405-62418	3.5	13
29	A Flexible Voltage Bus Converter for the 48-/12-V Dual Supply System in Electrified Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 2010-2018	6.8	11
28	Core Design and Optimization for Better Misalignment Tolerance and Higher Range of Wireless Charging of PHEV. <i>IEEE Transactions on Transportation Electrification</i> , 2017 , 3, 445-453	7.6	43
27	Simple algorithm with fast dynamics for cascaded H-bridge multilevel inverter based on model predictive control method 2017 ,		5
26	Comparative study of three model predictive current control methods with two vectors for three-phase DC/AC VSIs. <i>IET Electric Power Applications</i> , 2017 , 11, 1284-1297	1.8	6
25	Model predictive control method for CHB multi-level inverter with reduced calculation complexity and fast dynamics. <i>IET Electric Power Applications</i> , 2017 , 11, 784-792	1.8	26
24	Core design for better misalignment tolerance and higher range of wireless charging for HEV 2016 ,		9
23	Single pole switch leg based multi-port converter with an energy storage. <i>IET Power Electronics</i> , 2016 , 9, 1322-1330	2.2	18
22	State observer based sensor less control using Lyapunov's method for boost converters. <i>IET Power Electronics</i> , 2015 , 8, 11-19	2.2	32

21	Common-mode voltage mitigation with a predictive control method considering dead time effects of three-phase voltage source inverters. <i>IET Power Electronics</i> , 2015 , 8, 1690-1700	2.2	27
20	Dual Motor Drive for HVAC Applications Based on a Multifunctional Bidirectional Energy Conversion System. <i>IEEE Transactions on Energy Conversion</i> , 2015 , 30, 1556-1564	5.4	2
19	Predictive Current Control Methods With Reduced Current Errors and Ripples for Single-Phase Voltage Source Inverters. <i>IEEE Transactions on Industrial Informatics</i> , 2015 , 11, 1006-1016	11.9	29
18	Model Predictive Control Methods to Reduce Common-Mode Voltage for Three-Phase Voltage Source Inverters. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 5019-5035	7.2	85
17	Model-Predictive Direct Power Control With Vector Preselection Technique for Highly Efficient Active Rectifiers. <i>IEEE Transactions on Industrial Informatics</i> , 2015 , 11, 44-52	11.9	53
16	Predictive Control Method With Future Zero-Sequence Voltage to Reduce Switching Losses in Three-Phase Voltage Source Inverters. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 1558-1566	7.2	38
15	A generalized predictive current control method based on two vectors for three-phase voltage source inverters 2015 ,		2
14	Reducing Common-Mode Voltage of Three-Phase VSIs using the Predictive Current Control Method based on Reference Voltage. <i>Journal of Power Electronics</i> , 2015 , 15, 712-720	0.9	29
13	Finite control set predictive control based on Lyapunov function for three-phase voltage source inverters. <i>IET Power Electronics</i> , 2014 , 7, 2726-2732	2.2	33
12	Predictive-Control-Based Direct Power Control With an Adaptive Parameter Identification Technique for Improved AFE Performance. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 6178-6187	7.2	131
11	Suboptimal Control Scheme Design for Interior Permanent-Magnet Synchronous Motors: An SDRE-Based Approach. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3020-3031	7.2	57
10	Switching Strategy Based on Model Predictive Control of VSI to Obtain High Efficiency and Balanced Loss Distribution. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 4551-4567	7.2	91
9	Optimal design of five-phase permanent magnet assisted synchronous reluctance motor for low output torque ripple 2014 ,		10
8	A Compact Error Management Algorithm to Minimize False-Alarm Rate of Motor/Generator Faults in (Hybrid) Electric Vehicles. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2014 , 2, 618-626	5.6	10
7	Corrections to Remedial Switching Function Approach to Improve Reliability for AC/AC Converters [Jun 07 541-543]. <i>IEEE Transactions on Energy Conversion</i> , 2013 , 28, 460-460	5.4	
6	Four-Leg-Based Fault-Tolerant Matrix Converter Schemes Based on Switching Function and Space Vector Methods. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 235-243	8.9	32
5	Plasma Display Panel Driver With Dissymmetric Energy Transfer Speed for High Efficiency and Fast Voltage Transition. <i>Journal of Display Technology</i> , 2012 , 8, 707-713		3
4	Resonant Energy-Recovery Circuit With Asymmetric Voltage Excitation and No Circulating Current for Plasma Display Panel. <i>Journal of Display Technology</i> , 2012 , 8, 562-569		4

3	Light Fuel-Cell Hybrid Electric Vehicles Based on Predictive Controllers. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 89-97	6.8	36
2	Simplified sustain driver with low-voltage semiconductor devices and low-voltage power supply for AC plasma display panel. <i>IEEE Transactions on Consumer Electronics</i> , 2011 , 57, 297-304	4.8	4
1	A high-efficient sustain driver with low current stresses for plasma displays. <i>IEEE Transactions on Consumer Electronics</i> , 2010 , 56, 2047-2053	4.8	3