

Sang-Shin Kwak

List of Publications by Citations

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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 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | Suboptimal Control Scheme Design for Interior Permanent-Magnet Synchronous Motors: An SDR-Based Approach. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3020-3031 | 7.2 | 57 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | 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 |
| 66 | Light Fuel-Cell Hybrid Electric Vehicles Based on Predictive Controllers. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 89-97 | 6.8 | 36 |
| 65 | 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 |
| 64 | 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 |
| 63 | 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 |
| 62 | 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 |
| 61 | 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 |
| 60 | 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 |
| 59 | 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 |
| 58 | Nearest-Level Control Method With Improved Output Quality for Modular Multilevel Converters. <i>IEEE Access</i> , 2020 , 8, 110237-110250 | 3.5 | 21 |

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| 57 | Single pole switch leg based multi-port converter with an energy storage. <i>IET Power Electronics</i> , 2016 , 9, 1322-1330 | 2.2 | 18 |
| 56 | Model Predictive Current Control Method with Improved Performances for Three-Phase Voltage Source Inverters. <i>Electronics (Switzerland)</i> , 2019 , 8, 625 | 2.6 | 13 |
| 55 | Simplified Indirect Model Predictive Control Method for a Modular Multilevel Converter. <i>IEEE Access</i> , 2018 , 6, 62405-62418 | 3.5 | 13 |
| 54 | 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 |
| 53 | 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 |
| 52 | Performance Comparison of Model Predictive Control Methods for Active Front End Rectifiers. <i>IEEE Access</i> , 2018 , 6, 77272-77288 | 3.5 | 11 |
| 51 | Optimal design of five-phase permanent magnet assisted synchronous reluctance motor for low output torque ripple 2014 , | | 10 |
| 50 | 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 |
| 49 | Model Predictive Virtual Flux Control to Improve Performance Under Distorted Input Voltage Conditions. <i>IEEE Access</i> , 2018 , 6, 34921-34933 | 3.5 | 9 |
| 48 | Core design for better misalignment tolerance and higher range of wireless charging for HEV 2016 , | | 9 |
| 47 | 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 |
| 46 | 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 |
| 45 | Series DC Arc Fault Detection Using Machine Learning Algorithms. <i>IEEE Access</i> , 2021 , 1-1 | 3.5 | 8 |
| 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 | Enhance Reliability of Semiconductor Devices in Power Converters. <i>Electronics (Switzerland)</i> , 2020 , 9, 2068 | 2.6 | 7 |
| 42 | 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 |
| 41 | Power Factor Control Method Based on Virtual Capacitors for Three-Phase Matrix Rectifiers. <i>IEEE Access</i> , 2019 , 7, 12484-12494 | 3.5 | 6 |
| 40 | 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 |

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| 39 | 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 |
| 38 | DC Series Arc Detection Algorithm Based on Adaptive Moving Average Technique. <i>IEEE Access</i> , 2021 , 9, 94426-94437 | 3.5 | 6 |
| 37 | Deep learning-based series AC arc detection algorithms. <i>Journal of Power Electronics</i> , 2021 , 21, 1621-1631 | 3.9 | 6 |
| 36 | Simple algorithm with fast dynamics for cascaded H-bridge multilevel inverter based on model predictive control method 2017 , | | 5 |
| 35 | 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 |
| 34 | Predictive Direct Power Control Technique for Voltage Source Converter With High Efficiency. <i>IEEE Access</i> , 2018 , 6, 23540-23550 | 3.5 | 4 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | Improved Indirect Model Predictive Control for Enhancing Dynamic Performance of Modular Multilevel Converter. <i>Electronics (Switzerland)</i> , 2020 , 9, 1405 | 2.6 | 4 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | Different Domains Based Machine and Deep Learning Diagnosis for DC Series Arc Failure. <i>IEEE Access</i> , 2021 , 9, 166249-166261 | 3.5 | 3 |
| 25 | 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 |
| 24 | Switching Loss Balancing Technique for Modular Multilevel Converters Operated by Model Predictive Control Method. <i>Electronics (Switzerland)</i> , 2019 , 8, 1175 | 2.6 | 3 |
| 23 | Predictive Nearest-Level Control Algorithm for Modular Multilevel Converters With Reduced Harmonic Distortion. <i>IEEE Access</i> , 2021 , 9, 4769-4783 | 3.5 | 3 |
| 22 | 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 |

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| 21 | A generalized predictive current control method based on two vectors for three-phase voltage source inverters 2015 , | | 2 |
| 20 | Review of Health Monitoring Techniques for Capacitors Used in Power Electronics Converters. <i>Sensors</i> , 2020 , 20, | 3.8 | 2 |
| 19 | . <i>IEEE Access</i> , 2020 , 8, 136828-136842 | 3.5 | 2 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | Reduction of DC Current Ripples by Virtual Space Vector Modulation for Three-Phase AC/DC Matrix Converters. <i>Energies</i> , 2019 , 12, 4319 | 3.1 | 2 |
| 13 | 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 |
| 12 | Parallel DC Arc Failure Detecting Methods Based on Artificial Intelligent Techniques. <i>IEEE Access</i> , 2022 , 10, 26058-26067 | 3.5 | 2 |
| 11 | 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 |
| 10 | 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 |
| 9 | 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 |
| 8 | Simplified Model Predictive Control with preselection Technique for Reduction of Calculation Burden in 3-Level 4-Leg NPC Inverter 2020 , | | 1 |
| 7 | 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 |
| 6 | Direct Power-Based Three-Phase Matrix Rectifier Control with Input Power Factor Adjustment. <i>Electronics (Switzerland)</i> , 2019 , 8, 1427 | 2.6 | 1 |
| 5 | 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 |
| 4 | Indirect MPC method with improved output voltage and current waveforms for MMCs. <i>Journal of Power Electronics</i> , 2022 , 22, 674 | 0.9 | 0 |

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| 3 | 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 | o |
| 2 | 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 | |
| 1 | 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 | |