

Rae-Young Kim

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83

papers

1,113

citations

16

h-index

31

g-index

107

ext. papers

1,442

ext. citations

4.7

avg, IF

4.96

L-index

#	Paper	IF	Citations
83	A Modularized Equalization Method Based on Magnetizing Energy for a Series-Connected Lithium-Ion Battery String. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 1791-1799	7.2	141
82	Detection Method for Open-Circuit Fault in Neutral-Point-Clamped Inverter Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 2754-2763	8.9	88
81	A symmetric carrier technique of CRPWM for voltage balance method of flying-capacitor multilevel inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2005 , 52, 879-888	8.9	84
80	A New Rotor Position Estimation Method of IPMSM Using All-Pass Filter on High-Frequency Rotating Voltage Signal Injection. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6499-6509	8.9	78
79	Design of a Photovoltaic Simulator With a Novel Reference Signal Generator and Two-Stage LC Output Filter. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 1331-1338	7.2	56
78	Simple Fault Diagnosis Based on Operating Characteristic of Brushless Direct-Current Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 1586-1593	8.9	55
77	Suppression of Common-Mode Voltage Using a Multicentral Photovoltaic Inverter Topology With Synchronized PWM. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4722-4733	8.9	47
76	Symmetrical Three-Vector-Based Model Predictive Control With Deadbeat Solution for IPMSM in Rotating Reference Frame. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 159-168	8.9	47
75	Nonisolated ZVT Two-Inductor Boost Converter With a Single Resonant Inductor for High Step-Up Applications. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 1966-1973	7.2	41
74	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 9336-9345	8.9	40
73	Improved Saliency-Based Position Sensorless Control of Interior Permanent-Magnet Synchronous Machines With Single DC-Link Current Sensor Using Current Prediction Method. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 5335-5343	8.9	34
72	Position Estimation in Switched Reluctance Motor Drives Using the First Switching Harmonics Through Fourier Series. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 5352-5360	8.9	31
71	Resonance damping for an LCL filter type grid-connected inverter with active disturbance rejection control under grid impedance uncertainty. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 109, 444-454	5.1	25
70	An Adaptive Maximum Power Point Tracking Scheme Based on a Variable Scaling Factor for Photovoltaic Systems. <i>IEEE Transactions on Energy Conversion</i> , 2012 , 27, 1002-1008	5.4	21
69	A Novel Soft-Switched Auxiliary Resonant Circuit of a PFC ZVT-PWM Boost Converter for an Integrated Multichip Power Module Fabrication. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 2802-2809	4.3	17
68	Control method of NPC inverter for continuous operation under one phase fault condition		16
67	A Distributed Control Method Based on a Voltage Sensitivity Matrix in DC Microgrids With Low-Speed Communication. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 3809-3817	10.7	15

66	Fault diagnosis and neutral point voltage control when the 3-level inverter faults occur		15
65	Low frequency current reduction using a quasi-notch filter operated in two-stage DC-DC-AC grid-connected systems 2011 ,		14
64	Robust predictive current control for IPMSM without rotor flux information based on a discrete-time disturbance observer. <i>IET Electric Power Applications</i> , 2019 , 13, 2079-2089	1.8	12
63	Fuzzy adaptive speed control of a permanent magnet synchronous motor. <i>International Journal of Electronics</i> , 2012 , 99, 657-672	1.2	11
62	A Coordinated Droop Control Method Using a Virtual Voltage Axis for Power Management and Voltage Restoration of DC Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 9076-9085	8.9	11
61	A novel fault detection circuit for short-circuit faults of IGBT 2011 ,		10
60	A novel SVPWM strategy considering DC-link balancing for a multi-level voltage source inverter 1999 ,		9
59	Generalized Switching Modification Method Using Carrier Shift for DC-link Capacitor RMS Current Reduction in Real-Time Implementation. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5992-6001	8.9	9
58	Online sensorless position estimation for switched reluctance motors using characteristics of overlap position based on inductance profile. <i>IET Electric Power Applications</i> , 2019 , 13, 456-462	1.8	8
57	An Active Partial Switching Method in Tertiary Loop for a High-Efficiency Predictive Current-Mode Control PFC Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7818-7828	8.9	8
56	A predictive current control associated to EKF for high performance IPMSM drives 2011 ,		8
55	Modeling and Hierarchical Structure Based Model Predictive Control of Cascaded Flying Capacitor Bridge Multilevel Converter for Active Front-End Rectifier in Solid-State Transformer. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6560-6569	8.9	8
54	Internal-model-principle-based robust optimal nonlinear control for position tracking of permanent-magnet synchronous motor servo system. <i>Transactions of the Institute of Measurement and Control</i> , 2015 , 37, 372-381	1.8	7
53	Analysis and Evaluation of WBG Power Device in High Frequency Induction Heating Application. <i>Energies</i> , 2020 , 13, 5351	3.1	7
52	A high efficiency Zero Voltage-Zero Current Transition converter for battery cell equalization 2012 ,		7
51	The analysis of conduction and switching losses in multi-level inverter system		7
50	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7505-7514	4.3	6
49	PCB-Based Current Sensor Design for Sensing Switch Current of a Nonmodular GaN Power Semiconductor. <i>Energies</i> , 2020 , 13, 5161	3.1	6

48	Design of Magnetic Structure for Omnidirectional Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	6
47	Modularized battery cell voltage equalization circuit using extended multi-winding transformer 2012 ,		5
46	Fault diagnosis for open-phase faults of permanent magnet synchronous motor drives using Extended Kalman Filter 2010 ,		5
45	Fault diagnosis using recursive least square algorithm for permanent magnet synchronous motor drives 2011 ,		5
44	Magnetic-Field Analysis on Winding Disposition of Transformer for Distributed High-Speed Train Applications. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1766-1769	2	5
43	Study of neutral point potential variation for three-level NPC inverter under fault condition 2008 ,		5
42	Double-Sided LCC Compensation Topology with Semi-Bridgeless Rectifier for Wireless Power Transfer System 2019 ,		5
41	Active Disturbance Rejection Control Scheme for Reducing Mutual Current and Harmonics in Multi-Parallel Grid-Connected Inverters. <i>Energies</i> , 2019 , 12, 4363	3.1	5
40	A novel charge equalizer with auxiliary circuit to control the allowable charging and discharging current of the Lithium-ion battery 2017 ,		4
39	A novel switching loss minimized PWM method for a high switching frequency three-level inverter with a SiC clamp diode 2011 ,		4
38	A Novel Fault Detection of an Open-Switch Fault in the NPC Inverter System 2007 ,		4
37	Control strategy for suppression of circulating current using high-frequency voltage compensation in asynchronous carriers for modular and scalable inverter systems. <i>IET Power Electronics</i> , 2019 , 12, 3668-3674	2.2	4
36	Selective frequency synchronization technique for fast grid connection of islanded microgrid using prediction method. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 111, 114-124	5.1	3
35	An Integrated Current-Voltage Compensator Design Method for Stable Constant Voltage and Current Source Operation of LLC Resonant Converters. <i>Energies</i> , 2018 , 11, 1325	3.1	3
34	Modeling and Control of Two-Stage Inverter for Battery Energy Storage System 2013 ,		3
33	Line-interactive DVR using multi-level H-bridge inverter		3
32	Impedance-Based Modeling and Common Bus Stability Enhancement Control Algorithm in DC Microgrid. <i>IEEE Access</i> , 2020 , 8, 211224-211234	3.5	3
31	Analysis of Various Pickup Coil Designs in Nonmodule-Type GaN Power Semiconductors. <i>Sensors</i> , 2020 , 20,	3.8	2

30	Flexible Control Structure for Enhancement of Scalability in DC Microgrids. <i>IEEE Systems Journal</i> , 2020 , 14, 4591-4601	4.3	2
29	Conduction Loss Analysis According to Variation of Resonant Parameters in a Zero-Current Switching Boost Converter. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 2027-2037	1.4	2
28	LCpL Filter Design and Control for Stability Improvement in a Stand-Alone Microgrid with Sub Inverter Structure. <i>Energies</i> , 2019 , 12, 2318	3.1	2
27	Averaged modeling and control of a single-phase grid-connected two-stage inverter for battery application 2013 ,		2
26	A robust resonance damping of LCL-filter based grid-connected converter with linear active disturbance rejection control 2017 ,		2
25	Design consideration of CC-CV controller of LLC resonant converter for Li-ion battery charger 2015 ,		2
24	Low cost multiple zero voltage/zero current switching battery equalization circuit with single soft-switching resonant cell 2012 ,		2
23	A sensorless control using Extended Kalman Filter for an IPM synchronous motor based on an extended rotor flux 2012 ,		2
22	Analytical approach of circulating currents mitigation effect using coupled inductor in the parallel three-phase boost converters 2011 ,		2
21	Nonlinear Optimal Position Control with Observer for Position Tracking of Surfaced Mounded Permanent Magnet Synchronous Motors. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10992	2.6	2
20	An off-line design methodology of droop control for multiple bi-directional distributed energy resources based on voltage sensitivity analysis in DC microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 118, 105754	5.1	2
19	PCB-Embedded Spiral Pattern Pick-Up Coil Current Sensor for WBG Devices. <i>Energies</i> , 2020 , 13, 5747	3.1	2
18	Voltage Balance Switching Scheme for Series-Connected SiC MOSFET LLC Resonant Converter. <i>Energies</i> , 2019 , 12, 4003	3.1	2
17	Resonant Network Design Method to Reduce Influence of Mutual Inductance between Receivers in Multi-Output Omnidirectional Wireless Power Transfer Systems. <i>Energies</i> , 2020 , 13, 5556	3.1	1
16	An integrated voltage-current compensator of LLC resonant converter for Li-ion battery charger applications 2016 ,		1
15	Non-isolated bidirectional ZVT converter with a single resonant inductor for energy storage system 2013 ,		1
14	A high efficiency non-isolated bidirectional DC-DC converter with zero-voltage-transition 2013 ,		1
13	A novel switching loss minimization method for single-phase flying-capacitor multilevel inverter 2015 ,		1

12	Nonisolated ZVT two-inductor boost converter with a single resonant inductor for high step-up applications 2011 ,			1
11	High Power Density, High-Voltage Parallel Resonant Converter Using Parasitic Capacitance on the Secondary Side of a Transformer. <i>Electronics (Switzerland)</i> , 2021 , 10, 1736	2.6		1
10	Modeling and Control of Double-Sided LCC Compensation Topology with Semi-Bridgeless Active Rectifier for Inductive Power Transfer System. <i>Energies</i> , 2019 , 12, 3921	3.1		1
9	An Active Cascaded Battery Voltage Balancing Circuit Based on Multi-Winding Transformer with Small Magnetizing Inductance. <i>Energies</i> , 2021 , 14, 1302	3.1		1
8	A Verification of Improved Distributed Control in DC Microgrid based on Hardware-in-the-loop Simulation 2018 ,			1
7	Efficiency evaluation of the microgrid for selection of common bus using copula function-based efficiency curves of the converters. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 48, 101621	4.7		1
6	Hierarchical Single-Objective Model Predictive Control with Reduced Computational Burden in Cascaded H-Bridge Converter based on 3-level Flying Capacitor Unit Cell. <i>IEEE Access</i> , 2022 , 1-1	3.5		1
5	Robust L Approximation of an LCL Filter Type Grid-Connected Inverter Using Active Disturbance Rejection Control under Grid Impedance Uncertainty. <i>Energies</i> , 2021 , 14, 5276	3.1		0
4	Novel Variable Switching Frequency PWM Strategy for a SiC-MOSFET-Based Electric Vehicle Inverter to Increase Battery Usage Time. <i>IEEE Access</i> , 2022 , 10, 21929-21940	3.5		0
3	Gate Driver for Wide-Bandgap Power Semiconductors With Small Negative Spike and Switching Ringing in Zero-Voltage Switching Circuit. <i>IEEE Access</i> , 2021 , 9, 145774-145784	3.5		
2	Lumped Parameter Modeling Based Power Loop Analysis Technique of Power Circuit Board with Wide Conduction Area for WBG Semiconductors. <i>Electronics (Switzerland)</i> , 2021 , 10, 1722	2.6		
1	Design and Control of Ultra-High-Speed Sensorless Drive with Two-Input Power Source for Portable Consumer Electronics. <i>Electronics (Switzerland)</i> , 2022 , 11, 1024	2.6		