

Jee-Hoon Jung

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.

86

papers

1,723

citations

20

h-index

40

g-index

116

ext. papers

2,304

ext. citations

4.9

avg, IF

5.32

L-index

#	Paper	IF	Citations
86	A Hybrid Switching Modulation of Isolated Bidirectional DC-DC Converter for Energy Storage System in DC Microgrid. <i>IEEE Access</i> , 2021 , 1-1	3.5	0
85	Segmented Differential Power Processing Converter Unit and Control Algorithm for Photovoltaic Systems. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 7797-7809	7.2	5
84	Enhanced Computation Performance of Photovoltaic Models for Power Hardware-in-the-Loop Simulation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 6952-6961	8.9	5
83	Effective Magnetic Component Design of Three-Phase Dual-Active-Bridge Converter for LVDC Distribution System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 1828-1840	8.9	4
82	Design Methodology of Quasi-Resonant Flyback Converter With a Divided Resonant Capacitor. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 10796-10805	8.9	2
81	Spread Spectrum Technique with Random-Linear Modulation for EMI Mitigation and Audible Noise Elimination in IH Appliances. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
80	Hybrid Input Power Balancing Method of Modular Power Converters for High Efficiency, High Reliability, and Enhanced Dynamic Performance. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
79	Modified Three-port DAB Converter Employing Voltage Balancing Capability for Bipolar DC Distribution System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	4
78	Bidirectional CLLC Resonant Converter Employing PLC Capability and EM Noise Reduction Technique for Small-Sized ESS Application. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 2, 277-286	2.6	0
77	Series DC Arc Fault Detection Method for PV Systems Employing Differential Power Processing Structure. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 9787-9795	7.2	6
76	Bidirectional Current-Fed CLLC Resonant Converter Employing Asymmetric PWM. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
75	Effective in-laboratory test method for PV power generation with enhanced PV emulation accuracy. <i>Journal of Power Electronics</i> , 2020 , 20, 1047-1054	0.9	1
74	Analysis and Design of Three-Phase Buck Rectifier Employing UPS to Supply High Reliable DC Power. <i>Energies</i> , 2020 , 13, 1704	3.1	3
73	Practical Design Methodology of IH and IPT Dual-Functional Apparatus. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8897-8901	7.2	2
72	Real-time test-bed system development using power hardware-in-the-loop (PHIL) simulation technique for reliability test of DC nano grid. <i>Journal of Power Electronics</i> , 2020 , 20, 784-793	0.9	3
71	Isolated three-port DCDC converter employing ESS to obtain voltage balancing capability for bipolar LVDC distribution system. <i>Journal of Power Electronics</i> , 2020 , 20, 802-810	0.9	3
70	Wireless Power Transfer System with Reduced EMI Emission Employing Spread Spectrum Technique 2020 ,		3

69	Enhanced Dual-Active-Bridge DCDC Converter for Balancing Bipolar Voltage Level of DC Distribution System. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 10399-10409	8.9	20
68	Enhanced Switching Pattern to Improve Cell Balancing Performance in Active Cell Balancing Circuit Using Multi-Winding Transformer. <i>IEEE Access</i> , 2020 , 8, 149544-149554	3.5	2
67	Input voltage selection method of half-bridge series resonant inverters for all-metal induction heating applications using high turn-numbered coils. <i>Journal of Power Electronics</i> , 2020 , 20, 1629-1637	0.9	1
66	A Comprehensive Overview in Control Algorithms for High Switching-Frequency LLC Resonant Converter. <i>Energies</i> , 2020 , 13, 4455	3.1	1
65	Practical Controller Design of Three-Phase Dual Active Bridge Converter for Low Voltage DC Distribution System. <i>Electronics (Switzerland)</i> , 2020 , 9, 2101	2.6	1
64	Spread Spectrum Based Power Line Communication and EM Noise Reduction Technique for Bidirectional HB CLLC Resonant Converter 2020 ,		3
63	Single-Stage Voltage Balancer With High-Frequency Isolation for Bipolar LVDC Distribution System. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3596-3606	8.9	13
62	Hybrid modulation strategy of three-phase dual-active-bridge converter to improve power conversion efficiency under light load conditions in LVDC applications. <i>Journal of Power Electronics</i> , 2020 , 20, 894-903	0.9	1
61	Spread Spectrum Technique for Decreasing EM Noise in High-Frequency APWM HB Resonant Converter With Reduced EMI Filter Size. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10845-10855	7.2	11
60	Design Methodology of Tightly Regulated Dual-Output LLC Resonant Converter Using PFM-APWM Hybrid Control Method. <i>Energies</i> , 2019 , 12, 2146	3.1	0
59	Extension of Zero Voltage Switching Capability for CLLC Resonant Converter. <i>Energies</i> , 2019 , 12, 818	3.1	
58	Spread-Spectrum Technique Employing Phase-Shift Modulation to Reduce EM Noise for Parallel-Series LLC Resonant Converter. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 1026-1031	7.2	10
57	High Power Density Bidirectional Three-Port DC-DC Converter for Battery Applications in DC Microgrids 2019 ,		3
56	Investigation of Zero Voltage Switching Capability for Bidirectional Series Resonant Converter Using Phase-Shift Modulation. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 8842-8858	7.2	3
55	Spread Spectrum Technique to Reduce EMI Emission for an LLC Resonant Converter Using a Hybrid Modulation Method. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 3717-3721	7.2	17
54	Load-Adaptive Modulation of a Series-Resonant Inverter for All-Metal Induction Heating Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 6983-6993	8.9	22
53	Autonomous Control Strategy of DC Microgrid for Islanding Mode Using Power Line Communication. <i>Energies</i> , 2018 , 11, 924	3.1	8
52	Step-charging technique for CC/CV mode battery charging with low-cost control components in IPT systems. <i>IET Power Electronics</i> , 2018 , 11, 2523-2530	2.2	4

51	A Novel Switching Algorithm to improve Efficiency at light load conditions for Three-Phase DAB Converter in LVDC Application 2018,		1
50	Load adaptive modulation method for all-metal induction heating application 2018,		3
49	Enhanced Power Line Communication Strategy for DC Microgrids Using Switching Frequency Modulation of Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4140-4144	7.2	46
48	Tightly regulated dual-output half-bridge converter using PFM-APWM hybrid control method 2017,		1
47	Comprehensive Electric-Thermal Photovoltaic Modeling for Power-Hardware-in-the-Loop Simulation (PHILS) Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6255-6264	8.9	27
46	Power Stage and Feedback Loop Design for LLC Resonant Converter in High-Switching-Frequency Operation. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 7770-7782	7.2	27
45	PWM and PFM Hybrid Control Method for LLC Resonant Converters in High Switching Frequency Operation. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 253-263	8.9	60
44	Three level NPC dual active bridge capacitor voltage balancing switching modulation 2017,		8
43	An Effective Experimental Optimization Method for Wireless Power Transfer System Design Using Frequency Domain Measurement. <i>Journal of the Korean Institute of Electromagnetic Engineering and Science</i> , 2017 , 17, 208-220	2.3	3
42	Improved control strategy of 1 MHz LLC converter for high frequency resolution 2016,		2
41	Design Considerations of Resonant Network and Transformer Magnetics for High Frequency LLC Resonant Converter. <i>Journal of Electrical Engineering and Technology</i> , 2016 , 11, 383-392	1.4	3
40	Practical Design of Dual Active Bridge Converter as Isolated Bi-directional Power Interface for Solid State Transformer Applications. <i>Journal of Electrical Engineering and Technology</i> , 2016 , 11, 1265-1273	1.4	8
39	Modeling and Feedback Control of LLC Resonant Converters at High Switching Frequency. <i>Journal of Power Electronics</i> , 2016 , 16, 849-860	0.9	7
38	A novel DC bus control signal using pulse frequency modulation for DC microgrids 2016,		1
37	Power hardware-in-the-loop simulation (PHILS) of photovoltaic power generation using real-time simulation techniques and power interfaces. <i>Journal of Power Sources</i> , 2015 , 285, 137-145	8.9	11
36	Effective Test Bed of 380-V DC Distribution System Using Isolated Power Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4525-4536	8.9	95
35	Comparison of input power factor correction techniques for buck converters in single-phase wireless power transfer systems 2015,		3
34	Design methodology of dual active bridge converter for solid state transformer application in smart grid 2015,		2

33	Test-bed implementation of DC microgrid in islanding mode 2015 ,		1
32	Design and implementation of high switching frequency LLC resonant converter for high power density 2015 ,		4
31	Design considerations of 1 MHz LLC resonant converter with GaN E-HEMT 2015 ,		9
30	Passive Lossless Snubbers Using the Coupled Inductor Method for the Soft Switching Capability of Boost PFC Rectifiers. <i>Journal of Power Electronics</i> , 2015 , 15, 366-377	0.9	4
29	The High-Efficiency Isolated ACDC Converter Using the Three-Phase Interleaved LLC Resonant Converter Employing the Y-Connected Rectifier. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 4017-4028	7.3	56
28	Output current balancing method for three-phase interleaved LLC resonant converter employing Y-connected rectifier 2014 ,		2
27	Design Methodology of Bidirectional CLLC Resonant Converter for High-Frequency Isolation of DC Distribution Systems. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 1741-1755	7.2	286
26	Bifilar Winding of a Center-Tapped Transformer Including Integrated Resonant Inductance for LLC Resonant Converters. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 615-620	7.2	31
25	. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 1642-1654	7.2	123
24	Test bed implementation of 380V DC distribution system using isolated bidirectional power converters 2013 ,		6
23	Secondary side post regulator for improving cross regulation and reducing standby power consumption. <i>International Journal of Electronics</i> , 2013 , 100, 976-998	1.2	1
22	Real-time simulation model development of single crystalline photovoltaic panels using fast computation methods. <i>Solar Energy</i> , 2012 , 86, 1826-1837	6.8	15
21	Feed-Forward Compensator of Operating Frequency for APWM HB Flyback Converter. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 211-223	7.2	20
20	High efficiency bidirectional LLC resonant converter for 380V DC power distribution system using digital control scheme 2012 ,		28
19	Analysis and Design of a Multioutput Converter Using Asymmetrical PWM Half-Bridge Flyback Converter Employing a ParallelSeries Transformer. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 1-1	8.9	24
18	A boost PFC rectifier with a passive lossless snubber circuit using coupled inductors methods 2012 ,		3
17	Power hardware-in-the-loop simulation of single crystalline photovoltaic panel using real-time simulation techniques 2012 ,		2
16	. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 4217-4231	8.9	57

15	Flyback converter with novel active clamp control and secondary side post regulator for low standby power consumption under high-efficiency operation. <i>IET Power Electronics</i> , 2011 , 4, 1058	2.2	28
14	Oxidation Models of Rotor Bar and End Ring Segment to Simulate Induction Motor Faults in Progress. <i>Journal of Power Electronics</i> , 2011 , 11, 163-172	0.9	1
13	Real-time and Power Hardware-in-the-loop Simulation of PEM Fuel Cell Stack System. <i>Journal of Power Electronics</i> , 2011 , 11, 202-210	0.9	4
12	Data reduction method of sine look-up tables in microprocessor memory storage. <i>Electronics Letters</i> , 2010 , 46, 1656	1.1	1
11	2010 ,		26
10	High Step-Up DC-DC Converter with Two Transformers for Low DC Renewable Energy Systems 2010 ,		4
9	Low standby power consumption and high cross regulation of active clamp flyback converter with SSPR 2010 ,		2
8	Dynamic Model of PEM Fuel Cell Using Real-time Simulation Techniques. <i>Journal of Power Electronics</i> , 2010 , 10, 739-748	0.9	10
7	Novel techniques of the reduction of standby power consumption for multiple output converters. <i>IEEE Applied Power Electronics Conference and Exposition</i> , 2008 ,		2
6	Theoretical analysis and optimal design of LLC resonant converter 2007 ,		33
5	Corrosion Model of a Rotor-Bar-Under-Fault Progress in Induction Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2006 , 53, 1829-1841	8.9	22
4	Online Diagnosis of Induction Motors Using MCSA. <i>IEEE Transactions on Industrial Electronics</i> , 2006 , 53, 1842-1852	8.9	341
3	High-performance online UPS using three-leg-type converter. <i>IEEE Transactions on Industrial Electronics</i> , 2005 , 52, 889-897	8.9	85
2	Stability improvement of V/f-controlled induction motor drive systems by a dynamic current compensator. <i>IEEE Transactions on Industrial Electronics</i> , 2004 , 51, 930-933	8.9	17
1	Enhanced load adaptive modulation of induction heating series resonant inverters to heat various-material vessels. <i>Journal of Power Electronics</i> , 1	0.9	0