

Jee-Hoon Jung

List of Publications by Year in descending order

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116
papers

2,857
citations

331259

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117
docs citations

117
times ranked

2322
citing authors

#	ARTICLE	IF	CITATIONS
1	Design Methodology of Bidirectional CLLC Resonant Converter for High-Frequency Isolation of DC Distribution Systems. IEEE Transactions on Power Electronics, 2013, 28, 1741-1755.	5.4	505
2	Online Diagnosis of Induction Motors Using MCSA. IEEE Transactions on Industrial Electronics, 2006, 53, 1842-1852.	5.2	463
3	High-Efficiency Isolated Bidirectional AC-DC Converter for a DC Distribution System. IEEE Transactions on Power Electronics, 2013, 28, 1642-1654.	5.4	179
4	Effective Test Bed of 380-V DC Distribution System Using Isolated Power Converters. IEEE Transactions on Industrial Electronics, 2015, 62, 4525-4536.	5.2	138
5	High-Performance Online UPS Using Three-Leg-Type Converter. IEEE Transactions on Industrial Electronics, 2005, 52, 889-897.	5.2	115
6	PWM and PFM Hybrid Control Method for LLC Resonant Converters in High Switching Frequency Operation. IEEE Transactions on Industrial Electronics, 2017, 64, 253-263.	5.2	104
7	The High-Efficiency Isolated AC-DC Converter Using the Three-Phase Interleaved LLC Resonant Converter Employing the Y-Connected Rectifier. IEEE Transactions on Power Electronics, 2014, 29, 4017-4028.	5.4	76
8	Theoretical analysis and optimal design of LLC resonant converter. , 2007, , .		75
9	PEM Fuel Cell Stack Model Development for Real-Time Simulation Applications. IEEE Transactions on Industrial Electronics, 2011, 58, 4217-4231.	5.2	75
10	Enhanced Power Line Communication Strategy for DC Microgrids Using Switching Frequency Modulation of Power Converters. IEEE Transactions on Power Electronics, 2017, 32, 4140-4144.	5.4	69
11	Enhanced Dual-Active-Bridge DC-DC Converter for Balancing Bipolar Voltage Level of DC Distribution System. IEEE Transactions on Industrial Electronics, 2020, 67, 10399-10409.	5.2	56
12	Model construction of single crystalline photovoltaic panels for real-time simulation. , 2010, , .		53
13	Bifilar Winding of a Center-Tapped Transformer Including Integrated Resonant Inductance for LLC Resonant Converters. IEEE Transactions on Power Electronics, 2013, 28, 615-620.	5.4	50
14	Power Stage and Feedback Loop Design for LLC Resonant Converter in High-Switching-Frequency Operation. IEEE Transactions on Power Electronics, 2017, 32, 7770-7782.	5.4	45
15	High efficiency bidirectional LLC resonant converter for 380V DC power distribution system using digital control scheme. , 2012, , .		44
16	Spread Spectrum Technique to Reduce EMI Emission for an LLC Resonant Converter Using a Hybrid Modulation Method. IEEE Transactions on Power Electronics, 2018, 33, 3717-3721.	5.4	39
17	Load-Adaptive Modulation of a Series-Resonant Inverter for All-Metal Induction Heating Applications. IEEE Transactions on Industrial Electronics, 2018, 65, 6983-6993.	5.2	38
18	Flyback converter with novel active clamp control and secondary side post regulator for low standby power consumption under high-efficiency operation. IET Power Electronics, 2011, 4, 1058.	1.5	34

#	ARTICLE	IF	CITATIONS
19	Comprehensive Electric-Thermal Photovoltaic Modeling for Power-Hardware-in-the-Loop Simulation (PHILS) Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 6255-6264.	5.2	34
20	Analysis and Design of a Multi-output Converter using Asymmetrical PWM Half-bridge Flyback Converter Employing a Parallel-series Transformer. IEEE Transactions on Industrial Electronics, 2012, , 1-1.	5.2	31
21	Single-Stage Voltage Balancer With High-Frequency Isolation for Bipolar LVDC Distribution System. IEEE Transactions on Industrial Electronics, 2020, 67, 3596-3606.	5.2	30
22	Corrosion Model of a Rotor-Bar-Under-Fault Progress in Induction Motors. IEEE Transactions on Industrial Electronics, 2006, 53, 1829-1841.	5.2	29
23	Modified Three-Port DAB Converter Employing Voltage Balancing Capability for Bipolar DC Distribution System. IEEE Transactions on Industrial Electronics, 2022, 69, 6710-6721.	5.2	26
24	Feed-Forward Compensator of Operating Frequency for APWM HB Flyback Converter. IEEE Transactions on Power Electronics, 2012, 27, 211-223.	5.4	25
25	Real-time simulation model development of single crystalline photovoltaic panels using fast computation methods. Solar Energy, 2012, 86, 1826-1837.	2.9	22
26	Segmented Differential Power Processing Converter Unit and Control Algorithm for Photovoltaic Systems. IEEE Transactions on Power Electronics, 2021, 36, 7797-7809.	5.4	22
27	Stability Improvement of V/f -Controlled Induction Motor Drive Systems by a Dynamic Current Compensator. IEEE Transactions on Industrial Electronics, 2004, 51, 930-933.	5.2	21
28	Practical Design of Dual Active Bridge Converter as Isolated Bi-directional Power Interface for Solid State Transformer Applications. Journal of Electrical Engineering and Technology, 2016, 11, 1265-1273.	1.2	21
29	Three level NPC dual active bridge capacitor voltage balancing switching modulation. , 2017, , .		18
30	Power hardware-in-the-loop simulation (PHILS) of photovoltaic power generation using real-time simulation techniques and power interfaces. Journal of Power Sources, 2015, 285, 137-145.	4.0	17
31	Spread-Spectrum Technique Employing Phase-Shift Modulation to Reduce EM Noise for Parallel- Δ Series LLC Resonant Converter. IEEE Transactions on Power Electronics, 2019, 34, 1026-1031.	5.4	17
32	Spread Spectrum Technique for Decreasing EM Noise in High-Frequency APWM HB Resonant Converter With Reduced EMI Filter Size. IEEE Transactions on Power Electronics, 2019, 34, 10845-10855.	5.4	16
33	Series DC Arc Fault Detection Method for PV Systems Employing Differential Power Processing Structure. IEEE Transactions on Power Electronics, 2021, 36, 9787-9795.	5.4	15
34	Test bed implementation of 380V DC distribution system using isolated bidirectional power converters. , 2013, , .		13
35	Novel techniques of the reduction of standby power consumption for multiple output converters. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	11
36	Design considerations of 1 MHz LLC resonant converter with GaN E-HEMT. , 2015, , .		11

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37	Isolated three-port DC-DC converter employing ESS to obtain voltage balancing capability for bipolar LVDC distribution system. Journal of Power Electronics, 2020, 20, 802-810.	0.9	11
38	Design Methodology of Quasi-Resonant Flyback Converter With a Divided Resonant Capacitor. IEEE Transactions on Industrial Electronics, 2021, 68, 10796-10805.	5.2	11
39	Dynamic Model of PEM Fuel Cell Using Real-time Simulation Techniques. Journal of Power Electronics, 2010, 10, 739-748.	0.9	11
40	High Power Density Bidirectional Three-Port DC-DC Converter for Battery Applications in DC Microgrids. , 2019, , .		11
41	Design and implementation of high switching frequency LLC resonant converter for high power density. , 2015, , .		10
42	Effective Magnetic Component Design of Three-Phase Dual-Active-Bridge Converter for LVDC Distribution System. IEEE Transactions on Industrial Electronics, 2021, 68, 1828-1840.	5.2	10
43	Modeling and Feedback Control of LLC Resonant Converters at High Switching Frequency. Journal of Power Electronics, 2016, 16, 849-860.	0.9	10
44	Design methodology of dual active bridge converter for solid state transformer application in smart grid. , 2015, , .		9
45	Autonomous Control Strategy of DC Microgrid for Islanding Mode Using Power Line Communication. Energies, 2018, 11, 924.	1.6	9
46	Soft switching and optimal resonance conditions of APWM HB flyback converter for high efficiency under high output current. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	8
47	Investigation of Zero Voltage Switching Capability for Bidirectional Series Resonant Converter Using Phase-Shift Modulation. IEEE Transactions on Power Electronics, 2019, 34, 8842-8858.	5.4	8
48	A Comprehensive Overview in Control Algorithms for High Switching-Frequency LLC Resonant Converter. Energies, 2020, 13, 4455.	1.6	8
49	Enhanced Computation Performance of Photovoltaic Models for Power Hardware-in-the-Loop Simulation. IEEE Transactions on Industrial Electronics, 2021, 68, 6952-6961.	5.2	8
50	A Hybrid Switching Modulation of Isolated Bidirectional DC-DC Converter for Energy Storage System in DC Microgrid. IEEE Access, 2022, 10, 6555-6568.	2.6	8
51	Modulation Strategy of Three-Phase Dual-Active-Bridge Converter Using SiC-MOSFET for Improving Light Load Condition. , 2019, , .		7
52	Spread Spectrum Technique With Random-Linear Modulation for EMI Mitigation and Audible Noise Elimination in IH Appliances. IEEE Transactions on Industrial Electronics, 2022, 69, 8589-8593.	5.2	7
53	Real-time and Power Hardware-in-the-loop Simulation of PEM Fuel Cell Stack System. Journal of Power Electronics, 2011, 11, 202-210.	0.9	7
54	Passive Lossless Snubbers Using the Coupled Inductor Method for the Soft Switching Capability of Boost PFC Rectifiers. Journal of Power Electronics, 2015, 15, 366-377.	0.9	7

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55	Power hardware-in-the-loop simulation of single crystalline photovoltaic panel using real-time simulation techniques. , 2012, , .		6
56	Enhanced Switching Pattern to Improve Cell Balancing Performance in Active Cell Balancing Circuit Using Multi-Winding Transformer. IEEE Access, 2020, 8, 149544-149554.	2.6	6
57	Practical Design Methodology of IH and IPT Dual-Functional Apparatus. IEEE Transactions on Power Electronics, 2020, 35, 8897-8901.	5.4	6
58	Hybrid modulation strategy of three-phase dual-active-bridge converter to improve power conversion efficiency under light load conditions in LVDC applications. Journal of Power Electronics, 2020, 20, 894-903.	0.9	6
59	Bidirectional Current-Fed CLLC Resonant Converter Employing Asymmetric PWM. IEEE Transactions on Energy Conversion, 2021, 36, 3167-3177.	3.7	6
60	High Step-Up DC-DC Converter with Two Transformers for Low DC Renewable Energy Systems. , 2010, , .		5
61	Stepâ€charging technique for CC/CV mode battery charging with lowâ€cost control components in IPT systems. IET Power Electronics, 2018, 11, 2523-2530.	1.5	5
62	Load adaptive modulation method for all-metal induction heating application. , 2018, , .		5
63	Input voltage selection method of half-bridge series resonant inverters for all-metal induction heating applications using high turn-numbered coils. Journal of Power Electronics, 2020, 20, 1629-1637.	0.9	5
64	Analysis and Design of Three-Phase Buck Rectifier Employing UPS to Supply High Reliable DC Power. Energies, 2020, 13, 1704.	1.6	5
65	Real-time test-bed system development using power hardware-in-the-loop (PHIL) simulation technique for reliability test of DC nano grid. Journal of Power Electronics, 2020, 20, 784-793.	0.9	5
66	Design Considerations of Resonant Network and Transformer Magnetics for High Frequency LLC Resonant Converter. Journal of Electrical Engineering and Technology, 2016, 11, 383-392.	1.2	5
67	Design Methodology of Bidirectional Flyback Converter for Differential Power Processing Modules in PV Applications. , 2019, , .		5
68	Low standby power consumption and high cross regulation of active clamp flyback converter with SSPR. , 2010, , .		4
69	A boost PFC rectifier with a passive lossless snubber circuit using coupled inductors methods. , 2012, , .		4
70	Output current balancing method for three-phase interleaved LLC resonant converter employing Y-connected rectifier. , 2014, , .		4
71	Comparison of input power factor correction techniques for buck converters in single-phase wireless power transfer systems. , 2015, , .		4
72	Improved control strategy of 1 MHz LLC converter for high frequency resolution. , 2016, , .		4

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73	Practical Controller Design of Three-Phase Dual Active Bridge Converter for Low Voltage DC Distribution System. Electronics (Switzerland), 2020, 9, 2101.	1.8	4
74	Spread Spectrum Based Power Line Communication and EM Noise Reduction Technique for Bidirectional HB CLLC Resonant Converter. , 2020, , .		4
75	Hybrid Input Power Balancing Method of Modular Power Converters for High Efficiency, High Reliability, and Enhanced Dynamic Performance. IEEE Transactions on Industrial Electronics, 2022, 69, 5132-5141.	5.2	4
76	An Effective Experimental Optimization Method for Wireless Power Transfer System Design Using Frequency Domain Measurement. Journal of the Korean Institute of Electromagnetic Engineering and Science, 2017, 17, 208-220.	2.9	4
77	Switching Modulation Method for Current-Fed Dual-Active-Bridge Converter to Improve Power Conversion Efficiency. , 2019, , .		4
78	Real-time Power Flow Decoupling of Triple-Active-Bridge Converter for DC Microgrid System Applications. , 2022, , .		4
79	Feed-forward frequency compensator for APWM HB flyback converter. , 2011, , .		3
80	A simple dimmer using a MOSFET for AC driven lamp. , 2011, , .		3
81	Bidirectional CLLC Resonant Converter Employing PLC Capability and EM Noise Reduction Technique for Small-Sized ESS Application. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 277-286.	3.0	3
82	Wireless Power Transfer System with Reduced EMI Emission Employing Spread Spectrum Technique. , 2020, , .		3
83	Data reduction method of sine look-up tables in microprocessor's memory storage. Electronics Letters, 2010, 46, 1656.	0.5	2
84	Single-phase bidirectional AC-DC boost rectifier for DC distribution system. , 2013, , .		2
85	A Novel Switching Algorithm to improve Efficiency at light load conditions for Three-Phase DAB Converter in LVDC Application. , 2018, , .		2
86	Synchronous Rectification Method for High Frequency CLLC Resonant Converter. , 2019, , .		2
87	Effective in-laboratory test method for PV power generation with enhanced PV emulation accuracy. Journal of Power Electronics, 2020, 20, 1047-1054.	0.9	2
88	Oxidation Models of Rotor Bar and End Ring Segment to Simulate Induction Motor Faults in Progress. Journal of Power Electronics, 2011, 11, 163-172.	0.9	2
89	Interlink Three-Level Bidirectional DC-DC Converter with Asymmetrical Load Condition. , 2019, , .		2
90	Enhanced load adaptive modulation of induction heating series resonant inverters to heat various-material vessels. Journal of Power Electronics, 2022, 22, 1020-1032.	0.9	2

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91	Secondary side post regulator for improving cross regulation and reducing standby power consumption. International Journal of Electronics, 2013, 100, 976-998.	0.9	1
92	Analytical investigation of optimal wireless power transfer topology for electric vehicles. , 2015, , .		1
93	Test-bed implementation of DC microgrid in islanding mode. , 2015, , .		1
94	A novel DC bus control signal using pulse frequency modulation for DC microgrids. , 2016, , .		1
95	Electric-thermal photovoltaic model characteristics validation. , 2016, , .		1
96	Tightly regulated dual-output half-bridge converter using PFM-APWM hybrid control method. , 2017, , .		1
97	Wireless power transfer converter for Energy Hub applications with high power factor capability. , 2017, , .		1
98	Control Hardware-in-the-Loop Simulation test-bed of Power Management System for ship's power system applications. , 2017, , .		1
99	Design Methodology of 3 kW Induction Heating System for both Low Resistance and High Resistance Containers in a Single Burner. , 2018, , .		1
100	Coil misalignment compensation algorithm for single-stage inductive wireless power transfer system using model-based approach. , 2018, , .		1
101	Design Methodology of Tightly Regulated Dual-Output LLC Resonant Converter Using PFM-APWM Hybrid Control Method. Energies, 2019, 12, 2146.	1.6	1
102	Extension of Zero Voltage Switching Capability for CLLC Resonant Converter. Energies, 2019, 12, 818.	1.6	1
103	Spread Spectrum Technique for Current-Fed LLC Resonant Converter with Tight Output Voltage Regulation. , 2019, , .		1
104	Realistic Circuit Modeling Using Derating Factors for Triboelectric Nanogenerators in Energy Harvesting Applications. , 2019, , .		1
105	Tightly Regulated Current- Fed LLC Resonant Converter Employing Spread Spectrum Technique to Reduce Electromagnetic Interference. , 2019, , .		1
106	Coupled Inductor Design Methodology to Improve Energy Transfer Efficiency in Active Cell Balancing Circuit using Multi-Winding Coupled Inductor. , 2019, , .		1
107	Erosion Models of Rotor Bar and End Ring Faults in Progress to Diagnose Induction Motor Status. , 2007, , .		0
108	Fast computation methods of PEM fuel cell dynamic models for real-time simulation. , 2010, , .		0

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109	Design methodology of a 500 W wireless power transfer converter. , 2015, , .		0
110	Design consideration of efficiency improvement in three phase dual active bridge converter for LVDC application. , 2017, , .		0
111	Small-Signal Modeling and Controller Design of Grid-Connected Inverter for Solid State Transformer. Transactions of the Korean Institute of Electrical Engineers, 2017, 66, 40-47.	0.1	0
112	APWM Resonant Converter with SST for EMI Filter Size Reduction. , 2019, , .		0
113	Multi-port DC-DC Converter for Interconnecting Bipolar DC Buses of Bipolar DC Distribution System. , 2021, , .		0
114	Power Hardware-in-the-Loop Simulation for DC Microgrid Reliability Test. , 2020, , .		0
115	DC Microgrid Testbed for Testing Operation between Power Converter and DC Microgrid under Fault Situations using PHIL Simulation Technique. , 2021, , .		0
116	Efficiency-Optimized Control Method for Multiport Converter with Current-Fed H-bridges. , 2022, , .		0