

Hanju Cha

List of Publications by Year in descending order

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93
papers

799
citations

1307594

7
h-index

752698

20
g-index

93
all docs

93
docs citations

93
times ranked

620
citing authors

#	ARTICLE	IF	CITATIONS
1	A Three-Phase Current-Fed DC/DC Converter With Active Clamp for Low-DC Renewable Energy Sources. IEEE Transactions on Power Electronics, 2008, 23, 2784-2793.	7.9	142
2	A Three-Phase Interleaved DC-DC Converter With Active Clamp for Fuel Cells. IEEE Transactions on Power Electronics, 2010, 25, 2115-2123.	7.9	86
3	Comparative analysis of low-pass output filter for single-phase grid-connected Photovoltaic inverter. , 2010, , .		82
4	Design and control of Proportional-Resonant controller based Photovoltaic power conditioning system. , 2009, , .		74
5	Single-tuned Passive Harmonic Filter Design Considering Variances of Tuning and Quality Factor. Journal of International Council on Electrical Engineering, 2011, 1, 7-13.	0.4	49
6	A Novel Three-Phase High Power Current-Fed DC/DC Converter with Active Clamp for Fuel Cells. , 2007, , .		30
7	Battery ripple current reduction in a three-phase interleaved dc-dc converter for 5kW battery charger. , 2011, , .		25
8	A New Bi-directional Three-phase Interleaved Isolated Converter with Active Clamp. , 2009, , .		24
9	Design and control of a grid-connected three-phase 3-level NPC inverter for Building Integrated Photovoltaic systems. , 2012, , .		23
10	Comparative Analysis of Charging Modes of Series-Resonant Converter for an Energy Storage Capacitor. IEEE Transactions on Plasma Science, 2013, 41, 570-577.	1.3	22
11	Design and Implementation of Photovoltaic Power Conditioning System Using a Current Based Maximum Power Point Tracking. , 2008, , .		21
12	A new three-phase interleaved isolated boost converter with active clamp for fuel cells. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	18
13	A new fast peak detector for single or three-phase unsymmetrical voltage sags. , 2010, , .		15
14	Current harmonic minimization of a grid-connected photovoltaic 500kW three-phase inverter using PR control. , 2011, , .		14
15	Stability Improvement of Current Control by Voltage Feedforward Considering a Large Synchronous Inductance of a Diesel Generator. IEEE Transactions on Industry Applications, 2018, 54, 5134-5142.	4.9	14
16	Dynamic voltage restorer using PWM ac-ac converter. , 2010, , .		11
17	FPGA based DSC-PLL for grid harmonics and voltage unbalance effect elimination. , 2015, , .		9
18	Design of Effective Passive Damping Resistor of Grid-Connected Inverter with LCL Filter for Industrial Applications. Journal of Electrical Engineering and Technology, 2019, 14, 2039-2048.	2.0	9

#	ARTICLE	IF	CITATIONS
19	A single-tuned passive harmonic filter design using transfer function approach for industrial process application. International Journal of Mechatronics and Automation, 2011, 1, 90.	0.2	6
20	A comparative analysis of stability for battery energy storage system operating with diesel generator in a stand-alone microgrid. , 2018, , .		6
21	Comparison of PWM strategies for three-phase current-fed dc/dc converter. , 2007, , .		5
22	A three-phase current-fed dc/dc converter with a three-leg high frequency transformer for fuel cells. Journal of Power Sources, 2008, 182, 270-277.	7.8	5
23	A new single-phase voltage sag/swell compensator using direct power conversion. , 2009, , .		5
24	A new battery parameter identification considering current, SOC and Peukert's effect for hybrid electric vehicles. , 2011, , .		5
25	Grid synchronization PLL robust to frequency variation, unbalanced and distorted voltage. , 2011, , .		5
26	A New Design Method of LCL Filter for Single Phase Grid Connected Power Converter. , 2019, , .		5
27	Electrical Design of a Solar Array for LEO Satellites. International Journal of Aeronautical and Space Sciences, 2016, 17, 401-408.	2.0	5
28	A new adaptive dead-time compensation for single-phase grid-connected PV inverter. , 2011, , .		4
29	Performance of anti-islanding of an improved reactive power variation method based on positive feedback. , 2017, , .		4
30	A Supercapacitor Remaining Energy Control Method for Smoothing a Fluctuating Renewable Energy Power. Journal of Electrical Engineering and Technology, 2015, 10, 146-154.	2.0	4
31	Transfer function approach to a passive harmonic filter design for industrial process application. , 2010, , .		3
32	A dynamic voltage restorer with a selective harmonic mitigation and robust peak detection. , 2013, , .		3
33	Second harmonic current reduction by using a resonant circuit in a single-phase battery charger. , 2013, , .		3
34	A robust sensorless start-up method using four step sequence for LCI system. , 2016, , .		3
35	A new DSC-PLL using recursive discrete fourier transform for robustness to frequency variation. , 2016, , .		3
36	Assessment of the Implementation of a Neutron Measurement System During the Commissioning of the Jordan Research and Training Reactor. Nuclear Engineering and Technology, 2017, 49, 504-516.	2.3	3

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37	Zero Sequence Impedance of Yg-Yg Three Phase Core Type Transformer. Transactions of the Korean Institute of Electrical Engineers, 2016, 65, 940-945.	0.1	3
38	Seamless Transfer Operation Between Grid-connected and Stand-Alone Mode in the Three-phase Inverter. Transactions of the Korean Institute of Electrical Engineers, 2013, 62, 201-207.	0.1	3
39	Analysis on lead-acid battery bank for nuclear power plants in Korea. , 2012, , .		2
40	Comparative analysis of charging modes of series resonant converter for a energy storage capacitor. , 2012, , .		2
41	Three-phase dynamic voltage restorer with a robust voltage sag detection method. , 2012, , .		2
42	K<inf>t</inf> Factor analysis of lead-acid battery for nuclear power plant. , 2013, , .		2
43	A supercapacitor remaining energy control method for smoothing a fluctuating renewable energy power. , 2013, , .		2
44	Analysis in DSC-PLL grid synchronization method under grid frequency variation. , 2014, , .		2
45	The design of a solar array regulator with power limitation function. , 2014, , .		2
46	Grid-connected Battery Test System with AC regenerating capability. , 2014, , .		2
47	Parallel operation of three-phase bi-directional isolated interleaved DC-DC converters for battery test system. , 2014, , .		2
48	ITER VS converter control for circulation current and commutation failure. , 2015, , .		2
49	Sensorless start-up method of LCI system for gas-turbine. , 2015, , .		2
50	Stability of battery energy storage system operating with diesel generator in a stand-alone microgrid. , 2017, , .		2
51	MPPT Performance Comparison Between Duty-Cycle Control and Current Control for Photovoltaic Power Conditioning System. , 2018, , .		2
52	Development of the Triple Modular Redundant Excitation System with Simulator for 500MW Synchronous Generator. Transactions of the Korean Institute of Electrical Engineers, 2014, 63, 70-75.	0.1	2
53	Partial Discharge Position Tracking Method using a GIS Partial Discharge Signal and Arrival Time Difference. Transactions of the Korean Institute of Electrical Engineers, 2013, 62, 1297-1301.	0.1	2
54	High-Frequency Circuit Modeling and Analysis for Common-Mode Noise Voltage of a Single-Phase Inverter. Journal of Electrical Engineering and Technology, 2022, 17, 1239-1248.	2.0	2

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55	An advanced PWM strategy to improve efficiency and voltage transfer ratio of three-phase isolated boost dc/dc converter. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	1
56	Three-phase voltage sag compensator for smart grid and infrastructure. , 2012, , .		1
57	Comparison of capacity design of lead-acid battery bank and hybrid energy storage bank for nuclear power plant. , 2013, , .		1
58	Power limitation method of the solar array regulator for LEO satellites. , 2014, , .		1
59	A new sensorless start-up method of LCI system for gas-turbine. , 2015, , .		1
60	Analysis of two charging modes of battery energy storage system for a stand-alone microgrid. , 2016, , .		1
61	A new capacitance estimation method of supercapacitor bank using a bank impedance and current injection. , 2016, , .		1
62	Sequence Control Verification of a Central Solenoid Converter for Nuclear Fusion Reactors by Using a Hardware-in-the-Loop. IEEE Transactions on Industrial Electronics, 2017, 64, 6864-6873.	7.9	1
63	Analysis on recursive discrete fourier transform FLL based on delayed signal cancellation-PLL method under frequency variations. , 2017, , .		1
64	Evaluation of the neutron power signal calibration by the digital NMS applied to the research reactor. Progress in Nuclear Energy, 2018, 104, 183-189.	2.9	1
65	A Novel Reactive Power Control Mitigating a DC link Ripple voltage of Reactive Power Compensator for Distribution Line. , 2020, , .		1
66	A novel anti-islanding method using positive feedback reactive power variation. Journal of Power Electronics, 2020, 20, 991-1001.	1.5	1
67	Start-up Analysis and Commissioning Test of LCI System for 183MW Large Synchronous Machine. Transactions of the Korean Institute of Electrical Engineers, 2013, 62, 626-631.	0.1	1
68	UHF Sensor Location Optimization for Partial Discharge Signals Detection Method. Transactions of the Korean Institute of Electrical Engineers, 2014, 63, 409-413.	0.1	1
69	Development of Integrated Start-up and Excitation System for Gas Turbine Synchronous Generator. The Transactions of the Korean Institute of Electrical Engineers P, 2014, 63, 183-188.	0.1	1
70	A Design of Solar Array Regulator for LEO Satellites. Transactions of the Korean Institute of Electrical Engineers, 2015, 64, 1432-1439.	0.1	1
71	Design of auxiliary power supply for fault-tolerant operation of solar array regulator. , 2014, , .		0
72	Analysis and testing of LC3L type bidirectional DC-DC converter for constant voltage. , 2015, , .		0

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73	Stability improvement of current control by voltage feedforward considering a large synchronous inductance of diesel generator. , 2017, , .		0
74	Verification of a Vertical Stabilization Converter for a Superconducting Coil by Using a Real-Time Simulator. IEEE Transactions on Industry Applications, 2018, 54, 263-273.	4.9	0
75	A Novel Leakage Current Reduction Method combining a PWM Method and Bypass Path with a Damping Network for Transformerless 3-Level Photovoltaic Power Conditioning System. , 2019, , .		0
76	Energy Capturing Performance Comparison between Duty-Cycle Control and Current Control for Photovoltaic System. , 2019, , .		0
77	A Novel Variable Step sized MPPT Control based on P&O Method for Photovoltaic System. , 2019, , .		0
78	Analysis and Design of a 3-phase Series-Resonant type High Voltage Capacitor Charger. Transactions of the Korean Institute of Electrical Engineers, 2013, 62, 510-516.	0.1	0
79	The Development of an Algorithm for the Correction of Errors in the Phase Current of the Protective Relay on Distribution System Interconnected with Distributed Generations. Transactions of the Korean Institute of Electrical Engineers, 2013, 62, 1604-1609.	0.1	0
80	Parallel Operation of Three-Phase Bi-Directional Isolated Interleaved DC-DC Converters for The Battery Charge/Discharge System. The Transactions of the Korean Institute of Power Electronics, 2014, 19, 15-22.	0.1	0
81	Characteristics and Implementation of LCL Type DC-DC Converter for Constant Voltage Power supply. Transactions of the Korean Institute of Electrical Engineers, 2015, 64, 260-267.	0.1	0
82	Using the TDR in Dielectric for Partial Discharge Signals Detection Method. Transactions of the Korean Institute of Electrical Engineers, 2015, 64, 1374-1379.	0.1	0
83	A Study on the Design of Triple-tuned Filter for Line Commutated Converter HVDC. Transactions of the Korean Institute of Electrical Engineers, 2015, 64, 1288-1296.	0.1	0
84	Auxiliary Power Unit Control Algorithm for Input Voltage Disturbance Suppression. Transactions of the Korean Institute of Electrical Engineers, 2015, 64, 1810-1817.	0.1	0
85	Analysis of A Fixed Frequency LCL-type DC-DC Converter Including the Effect of High-Frequency Transformer. Transactions of the Korean Institute of Electrical Engineers, 2016, 65, 81-87.	0.1	0
86	DCM Analysis of Solar Array Regulator for LEO Satellites. Transactions of the Korean Institute of Electrical Engineers, 2016, 65, 593-600.	0.1	0
87	Voltage Control of Stand-Alone Inverter for Power Quality Improvement Under Unbalanced and Non-linear Load. Transactions of the Korean Institute of Electrical Engineers, 2016, 65, 567-575.	0.1	0
88	Analysis of the Fixed Frequency LCL-type Converter at Continuous Current Mode Including Parasitic Losses. Transactions of the Korean Institute of Electrical Engineers, 2016, 65, 785-793.	0.1	0
89	UHF Sensor Development for Partial Discharge Exclusively for Measurement in 25.8kV GIS. Transactions of the Korean Institute of Electrical Engineers, 2016, 65, 1083-1088.	0.1	0
90	The Noise Removal Method of Partial Discharge Signal. Transactions of the Korean Institute of Electrical Engineers, 2016, 65, 1436-1441.	0.1	0

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91	Complex Vector Current Control of Grid Connected Inverter Robust for Inductance Variation. Transactions of the Korean Institute of Electrical Engineers, 2016, 65, 1648-1654.	0.1	0
92	High-Frequency Mathematical Model for Common-Mode Noise Voltage of Buck Converter. Journal of Electrical Engineering and Technology, 0, , .	2.0	0
93	A New dv/dt Filter Design Method using the Voltage Reflection Theory. , 2022, , .		0