

Gab-Su Seo

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,357
citations

687363

13
h-index

839539

18
g-index

67
all docs

67
docs citations

67
times ranked

1239
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Cyber-Physical Security for Photovoltaic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4879-4901.	5.4	47
2	Levelized Cost of Energy-Oriented Modular String Inverter Design Optimization for PV Generation System Using Geometric Programming. IEEE Access, 2022, 10, 27561-27578.	4.2	8
3	Pathways to the Next-Generation Power System With Inverter-Based Resources: Challenges and recommendations. IEEE Electrification Magazine, 2022, 10, 10-21.	1.8	14
4	A review of active probing-based system identification techniques with applications in power systems. International Journal of Electrical Power and Energy Systems, 2022, 140, 108008.	5.5	10
5	1 kV, 10-kW SiC-Based Quadruple Active Bridge DCX Stage in a DC to Three-Phase AC Module for Medium-Voltage Grid Integration. IEEE Transactions on Power Electronics, 2022, 37, 14631-14646.	7.9	7
6	Analysis of Dual-Inductor Hybrid Converters for Extreme Conversion Ratios. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5249-5260.	5.4	24
7	A Novel Decentralized PWM Interleaving Technique for Ripple Minimization in Series-stacked DC-DC Converters. , 2021, , .		2
8	Impact of Blockchain Delay on Grid-Tied Solar Inverter Performance. , 2021, , .		2
9	A High-Frequency Planar Transformer with Medium-Voltage Isolation. , 2021, , .		4
10	Grid-connected Self-synchronizing Cascaded H-Bridge Inverters with Autonomous Power Sharing. , 2021, , .		5
11	Impact of Increased Inverter-based Resources on Power System Small-signal Stability. , 2021, , .		5
12	Blockchain-Enabled Cyber-Secure Microgrid Control Using Consensus Algorithm. , 2021, , .		5
13	S-Hybrid Step-Down DC-DC Converter Analysis of Operation and Design Considerations. IEEE Transactions on Industrial Electronics, 2020, 67, 265-275.	7.9	24
14	Dual Inductor Hybrid Converter for Point-of-Load Voltage Regulator Modules. IEEE Transactions on Industry Applications, 2020, 56, 367-377.	4.9	35
15	Secure and Cost-Effective Micro Phasor Measurement Unit (PMU)-Like Metering for Behind-the-Meter (BTM) Solar Systems using Blockchain-Assisted Smart Inverters. , 2020, , .		9
16	Soft Switching Over the Entire Line Cycle for a Quadruple Active Bridge DCX in a DC to Three-Phase AC Module. , 2020, , .		2
17	Decentralized Control of Cascaded H-Bridge Inverters for Medium-Voltage Grid Integration. , 2020, , .		4
18	Addressing technical challenges in 100% variable inverter-based renewable energy power systems. Wiley Interdisciplinary Reviews: Energy and Environment, 2020, 9, e376.	4.1	47

#	ARTICLE	IF	CITATIONS
19	Blackstart of Power Grids with Inverter-Based Resources. , 2020, , .		29
20	LCOE Design Optimization Using Genetic Algorithm with Improved Component Models for Medium-Voltage Transformerless PV Inverters. , 2020, , .		2
21	Equivalent Circuit Models of Voltage-controlled Dual Active Bridge Converters. , 2019, , .		4
22	AC Resistance Reduction Using Orthogonal Air Gaps in High Frequency Inductors. , 2019, , .		4
23	Dispatchable Virtual Oscillator Control for Decentralized Inverter-dominated Power Systems: Analysis and Experiments. , 2019, , .		80
24	Decentralized Carrier Interleaving in Cascaded Multilevel DC-AC Converters. , 2019, , .		13
25	Multiphase Control for Robust and Complete Soft-charging Operation of Dual Inductor Hybrid Converter. , 2019, , .		19
26	An 80-W 94.6%-Efficient Multi-Phase Multi-Inductor Hybrid Converter. , 2019, , .		31
27	Adaptation of Commercial Current-controlled Inverters for Operation with Virtual Oscillator Control. , 2019, , .		15
28	Highly Reliable Multi-Port Smart Inverter Modules for PV-Based Energy Systems. , 2019, , .		2
29	Levelized-Cost-of-Electricity-Driven Design Optimization for Medium-Voltage Transformerless Photovoltaic Converters. , 2019, , .		6
30	A Multilevel DC to Three-Phase AC Architecture for Photovoltaic Power Plants. IEEE Transactions on Energy Conversion, 2019, 34, 181-190.	5.2	35
31	Model Identification of Inverter Nonlinear Control Dynamics. , 2018, , .		1
32	A 120V-to-1.8V 91.5%-Efficient 36-W Dual-Inductor Hybrid Converter with Natural Soft-charging Operations for Direct Extreme Conversion Ratios. , 2018, , .		21
33	A 95%-Efficient 48V-to-1V/10A VRM Hybrid Converter Using Interleaved Dual Inductors. , 2018, , .		36
34	Hybrid Converters with Reduced Inductor Loss for Integratable Power Conversion. , 2018, , .		1
35	An inductor-less hybrid step-down DC-DC converter architecture for future smart power cable. , 2017, , .		19
36	Small-signal analysis of S-hybrid step-down DC-DC converter. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
37	A smart-USB-cable buck converter with indirect control. , 2017, , .		4
38	Large-Signal Stability Analysis of DC Power System With Shunt Active Damper. IEEE Transactions on Industrial Electronics, 2016, 63, 6270-6280.	7.9	71
39	Series arc fault detection method based on statistical analysis for dc Microgrids. , 2016, , .		14
40	Photovoltaic Hot-Spot Detection for Solar Panel Substrings Using AC Parameter Characterization. IEEE Transactions on Power Electronics, 2016, 31, 1121-1130.	7.9	166
41	Design of GaN transistor-based class E DC-DC converter with resonant rectifier circuit. , 2015, , .		3
42	A new DC arc fault detection method using DC system component modeling and analysis in low frequency range. , 2015, , .		28
43	DC-Level Dimmable LED Driver With Primary Side On-Time Control for DC Distribution. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 624-632.	5.4	9
44	DC arc fault Detection method for DC microgrid using branch monitoring. , 2015, , .		6
45	A Simple Average Current Control With On-Time Doubler for Multiphase CCM PFC Converter. IEEE Transactions on Power Electronics, 2015, 30, 1683-1693.	7.9	31
46	Current sensor-less state-of-charge estimation algorithm for lithium-ion batteries utilizing filtered terminal voltage. Journal of Power Sources, 2015, 273, 255-263.	7.8	52
47	State-of-charge estimation for lithium-ion battery pack using reconstructed open-circuit-voltage curve. , 2014, , .		4
48	Digitally Controlled Current Sensorless Photovoltaic Micro-Converter for DC Distribution. IEEE Transactions on Industrial Informatics, 2014, 10, 117-126.	11.3	32
49	A fast state-of-charge estimation algorithm for LiFePO ₄ batteries utilizing extended Kalman filter. , 2013, , .		8
50	DC level dimmable LED driver using DC distribution. , 2013, , .		6
51	Low-Common Mode Voltage H-Bridge Converter with Additional Switch Legs. IEEE Transactions on Power Electronics, 2013, 28, 1773-1782.	7.9	69
52	A New DC Anti-Islanding Technique of Electrolytic Capacitor-Less Photovoltaic Interface in DC Distribution Systems. IEEE Transactions on Power Electronics, 2013, 28, 1632-1641.	7.9	70
53	Photovoltaic AC parameter characterization for dynamic partial shading and hot spot detection. , 2013, , .		15
54	Photovoltaic module-level DC-DC converter with arc fault protection scheme for DC distribution system. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
55	Arc protection scheme for DC distribution systems with photovoltaic generation. , 2012, , .		18
56	DC islanding detection algorithm using injection current perturbation technique for photovoltaic converters in DC distribution. , 2012, , .		6
57	Digitally controlled open-loop master-slave interleaved boost PFC rectifier. , 2012, , .		12
58	OCV hysteresis effect-based SOC estimation in extended Kalman filter algorithm for a LiFePO ₄ /C cell. , 2012, , .		18
59	Modeling and implementation of digital control for critical conduction mode power factor correction rectifier. , 2012, , .		6
60	Cost effective photovoltaic power conditioning system with simple control algorithm in DC microgrids. , 2012, , .		0
61	Discrete wavelet transform-based characteristic analysis and SOH diagnosis for a Li-Ion cell. , 2012, , .		2
62	Electrolytic capacitor-less PV converter for full lifetime guarantee interfaced with DC distribution. , 2012, , .		2
63	A low common mode noise bridgeless boost-buck-boost power factor correction rectifier. , 2012, , .		3
64	Modeling and analysis of DC distribution systems. , 2011, , .		57
65	Multilayer piezoelectric transducer design guidelines for low profile magnetic-less DC/DC converter. , 2011, , .		8
66	A magnetic component-less series resonant converter using a piezoelectric transducer for low profile application. , 2010, , .		12
67	Selective flyback balancing circuit with improved balancing speed for series connected Lithium-ion batteries. , 2010, , .		47