

Jianjun Sun

List of Publications by Year in descending order

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476
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Signal Stability of Grid-Forming and Grid-Following Controls in Voltage Source Converter: A Comparative Study. IEEE Transactions on Power Electronics, 2021, 36, 7832-7840.	7.9	117
2	Bifurcation and Large-Signal Stability Analysis of Three-Phase Voltage Source Converter Under Grid Voltage Dips. IEEE Transactions on Power Electronics, 2017, 32, 8868-8879.	7.9	108
3	Bifurcation-Based Stability Analysis of Photovoltaic-Battery Hybrid Power System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1055-1067.	5.4	40
4	Reliability-Oriented Optimization of the LC Filter in a Buck DC-DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 6323-6337.	7.9	35
5	Dynamic Aggregation Modeling of Grid-Connected Inverters Using Hamilton's-Action-Based Coherent Equivalence. IEEE Transactions on Industrial Electronics, 2019, 66, 6437-6448.	7.9	35
6	An Adaptive Carrier Frequency Optimization Method for Harmonic Energy Unbalance Minimization in a Cascaded H-Bridge-Based Active Power Filter. IEEE Transactions on Power Electronics, 2018, 33, 1024-1037.	7.9	29
7	Large-Signal Stability Criterion for Parallel-Connected DC-DC Converters With Current Source Equivalence. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 2037-2041.	3.0	26
8	An Improved Equal Area Criterion for Transient Stability Analysis of Converter-Based Microgrid Considering Nonlinear Damping Effect. IEEE Transactions on Power Electronics, 2022, 37, 11272-11284.	7.9	26
9	Hamilton-Based Stability Criterion and Attraction Region Estimation for Grid-Tied Inverters Under Large-Signal Disturbances. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 413-423.	5.4	21
10	An Integrated Dual Voltage Loop Control for Capacitance Reduction in CHB-Based Regenerative Motor Drive Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 3369-3379.	7.9	19
11	A Novel Node Flexibility Evaluation Method of Active Distribution Network for SNOP Integration. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 188-198.	3.6	17
12	An Improved Impedance Measurement Method for Grid-Connected Inverter Systems Considering the Background Harmonics and Frequency Deviation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4236-4247.	5.4	16
13	A Novel Dynamic Aggregation Modeling Method of Grid-Connected Inverters: Application in Small-Signal Analysis. IEEE Transactions on Sustainable Energy, 2019, 10, 1554-1564.	8.8	14
14	Improving the Stability and Accuracy of Power Hardware-in-the-Loop Simulation Using Virtual Impedance Method. Energies, 2016, 9, 974.	3.1	6
15	Speed-Sensorless and Motor Parameters-Free Starting Method for Large-Capacity Synchronous Machines Based on Virtual Synchronous Generator Technology. IEEE Transactions on Industrial Electronics, 2021, 68, 6607-6618.	7.9	6
16	CDSC-Based Adaptive Impedance Measurement Method for Grid-Tied Inverter System Under Adverse Grid Voltage Conditions. IEEE Transactions on Industrial Electronics, 2022, 69, 11210-11220.	7.9	6
17	Frequency-Dependent Network Analysis and Stability Enhanced Design for Voltage-Source Converters Under Weak Grid Conditions. IEEE Transactions on Power Delivery, 2022, 37, 4593-4602.	4.3	4
18	Reliability-oriented design of LC filter in buck DC-DC converter. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
19	Bifurcation analysis of photovoltaic-battery hybrid power system with constant power load. , 2016, , .		3
20	Back-to-back Starting of Large-capacity Condenser with Virtual Synchronous Generator. , 2019, , .		3
21	Coordinate control system for photovoltaic-based DC microgrid. , 2013, , .		2
22	Active power decoupling method for isolated micro-inverters. , 2014, , .		2
23	Impact Analysis of Fast Dynamics on Stability of Grid-Tied Inverter Based on Oscillator Model and Damping Torque Analysis. IEEE Transactions on Power Systems, 2022, 37, 1881-1892.	6.5	2
24	Transient Stability Analysis for Grid-tied Virtual Synchronous Generator Based on T-S Fuzzy Modeling and LMI Approach. , 2021, , .		0