Minghui Lu

List of Publications by Year
in descending order

27 papers	853 citations	1040056 9 h-index	1372567 10 g-index
27 all docs	27 docs citations	27 times ranked	789 citing authors

#	Article	IF	Citations
1	Model Reduction for Inverters With Current Limiting and Dispatchable Virtual Oscillator Control. IEEE Transactions on Energy Conversion, 2022, 37, 2250-2259.	5.2	19
2	Self-Synchronizing Cascaded Inverters With Virtual Oscillator Control. IEEE Transactions on Power Electronics, 2022, 37, 6424-6436.	7.9	9
3	Virtual Oscillator Grid-Forming Inverters: State of the Art, Modeling, and Stability. IEEE Transactions on Power Electronics, 2022, 37, 11579-11591.	7.9	18
4	Benchmarking Nonlinear Oscillators for Grid-Forming Inverter Control. IEEE Transactions on Power Electronics, 2022, 37, 10250-10266.	7.9	13
5	Spontaneous Phase Balancing in Delta-Connected Single-Phase Droop-Controlled Inverters. IEEE Transactions on Power Electronics, 2022, 37, 14115-14125.	7.9	6
6	Modeling and Simulation of Power-Electronic Inverters in Analog Electronic Circuit Simulators. , 2021, , .		1
7	Grid-connected Self-synchronizing Cascaded H-Bridge Inverters with Autonomous Power Sharing. , 2021, , .		5
8	Dispatchable Virtual-oscillator-controlled Inverters with Current-limiting and MPPT Capabilities. , 2021, , .		6
9	A Pre-synchronization Strategy for Grid-forming Virtual Oscillator Controlled Inverters. , 2020, , .		15
10	Decentralized Control of Cascaded H-Bridge Inverters for Medium-Voltage Grid Integration. , 2020, , .		4
11	Comparison of Droop Control and Virtual Oscillator Control Realized by Andronov-Hopf Dynamics. , 2020, , .		16
12	Adaptation of Commercial Current-controlled Inverters for Operation with Virtual Oscillator Control. , 2019, , .		15
13	A Grid-compatible Virtual Oscillator Controller: Analysis and Design. , 2019, , .		74
14	An Interaction-Admittance Model for Multi-Inverter Grid-Connected Systems. IEEE Transactions on Power Electronics, 2019, 34, 7542-7557.	7.9	46
15	Benchmarking of Stability and Robustness Against Grid Impedance Variation for <italic>LCL</italic> -Filtered Grid-Interfacing Inverters. IEEE Transactions on Power Electronics, 2018, 33, 9033-9046.	7.9	86
16	Graphical Evaluation of Time-Delay Compensation Techniques for Digitally Controlled Converters. IEEE Transactions on Power Electronics, 2018, 33, 2601-2614.	7.9	77
17	Resonance Interaction of Multiparallel Grid-Connected Inverters With LCL Filter. IEEE Transactions on Power Electronics, 2017, 32, 894-899.	7.9	130
18	Stability identification for grid-connected inverters with LCL filters considering grid-voltage feedforward regulator. , 2017, , .		3

#	Article	IF	Citations
19	A comparative benchmark of digital delay compensation techniques based on a graphical approach. , 2017, , .		1
20	Impedance characteristics modeling of a two-terminal active capacitor. , 2017, , .		5
21	Extended stable boundary of LCL-filtered grid-connected inverter based on an improved grid-voltage feedforward control. , 2016, , .		6
22	Interaction admittance based modeling of multi-paralleled grid-connected inverter with LCL-filter. , 2016, , .		5
23	A new second-order generalized integrator based quadrature signal generator with enhanced performance. , 2016, , .		18
24	Grid-voltage-feedforward active damping for grid-connected inverter with LCL filter. , 2016, , .		17
25	An Improved Second-Order Generalized Integrator Based Quadrature Signal Generator. IEEE Transactions on Power Electronics, 2016, 31, 8068-8073.	7.9	213
26	Interaction and aggregated modeling of multiple paralleled inverters with LCL filter. , 2015, , .		24
27	An analysis method for harmonic resonance and stability of multi-paralleled LCL-filtered inverters. , 2015, , .		21