

Minghui Lu

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

853
citations

1040056

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27
times ranked

789
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An Improved Second-Order Generalized Integrator Based Quadrature Signal Generator. IEEE Transactions on Power Electronics, 2016, 31, 8068-8073. | 7.9 | 213 |
| 2 | Resonance Interaction of Multiparallel Grid-Connected Inverters With LCL Filter. IEEE Transactions on Power Electronics, 2017, 32, 894-899. | 7.9 | 130 |
| 3 | Benchmarking of Stability and Robustness Against Grid Impedance Variation for <i>LCL-Filtered Grid-Interfacing Inverters. IEEE Transactions on Power Electronics, 2018, 33, 9033-9046. | 7.9 | 86 |
| 4 | Graphical Evaluation of Time-Delay Compensation Techniques for Digitally Controlled Converters. IEEE Transactions on Power Electronics, 2018, 33, 2601-2614. | 7.9 | 77 |
| 5 | A Grid-compatible Virtual Oscillator Controller: Analysis and Design. , 2019, , . | | 74 |
| 6 | An Interaction-Admittance Model for Multi-Inverter Grid-Connected Systems. IEEE Transactions on Power Electronics, 2019, 34, 7542-7557. | 7.9 | 46 |
| 7 | Interaction and aggregated modeling of multiple paralleled inverters with LCL filter. , 2015, , . | | 24 |
| 8 | An analysis method for harmonic resonance and stability of multi-paralleled LCL-filtered inverters. , 2015, , . | | 21 |
| 9 | Model Reduction for Inverters With Current Limiting and Dispatchable Virtual Oscillator Control. IEEE Transactions on Energy Conversion, 2022, 37, 2250-2259. | 5.2 | 19 |
| 10 | A new second-order generalized integrator based quadrature signal generator with enhanced performance. , 2016, , . | | 18 |
| 11 | Virtual Oscillator Grid-Forming Inverters: State of the Art, Modeling, and Stability. IEEE Transactions on Power Electronics, 2022, 37, 11579-11591. | 7.9 | 18 |
| 12 | Grid-voltage-feedforward active damping for grid-connected inverter with LCL filter. , 2016, , . | | 17 |
| 13 | Comparison of Droop Control and Virtual Oscillator Control Realized by Andronov-Hopf Dynamics. , 2020, , . | | 16 |
| 14 | Adaptation of Commercial Current-controlled Inverters for Operation with Virtual Oscillator Control. , 2019, , . | | 15 |
| 15 | A Pre-synchronization Strategy for Grid-forming Virtual Oscillator Controlled Inverters. , 2020, , . | | 15 |
| 16 | Benchmarking Nonlinear Oscillators for Grid-Forming Inverter Control. IEEE Transactions on Power Electronics, 2022, 37, 10250-10266. | 7.9 | 13 |
| 17 | Self-Synchronizing Cascaded Inverters With Virtual Oscillator Control. IEEE Transactions on Power Electronics, 2022, 37, 6424-6436. | 7.9 | 9 |
| 18 | Extended stable boundary of LCL-filtered grid-connected inverter based on an improved grid-voltage feedforward control. , 2016, , . | | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Dispatchable Virtual-oscillator-controlled Inverters with Current-limiting and MPPT Capabilities. , 2021, , . | | 6 |
| 20 | Spontaneous Phase Balancing in Delta-Connected Single-Phase Droop-Controlled Inverters. IEEE Transactions on Power Electronics, 2022, 37, 14115-14125. | 7.9 | 6 |
| 21 | Interaction admittance based modeling of multi-paralleled grid-connected inverter with LCL-filter. , 2016, , . | | 5 |
| 22 | Impedance characteristics modeling of a two-terminal active capacitor. , 2017, , . | | 5 |
| 23 | Grid-connected Self-synchronizing Cascaded H-Bridge Inverters with Autonomous Power Sharing. , 2021, , . | | 5 |
| 24 | Decentralized Control of Cascaded H-Bridge Inverters for Medium-Voltage Grid Integration. , 2020, , . | | 4 |
| 25 | Stability identification for grid-connected inverters with LCL filters considering grid-voltage feedforward regulator. , 2017, , . | | 3 |
| 26 | A comparative benchmark of digital delay compensation techniques based on a graphical approach. , 2017, , . | | 1 |
| 27 | Modeling and Simulation of Power-Electronic Inverters in Analog Electronic Circuit Simulators. , 2021, , . | | 1 |