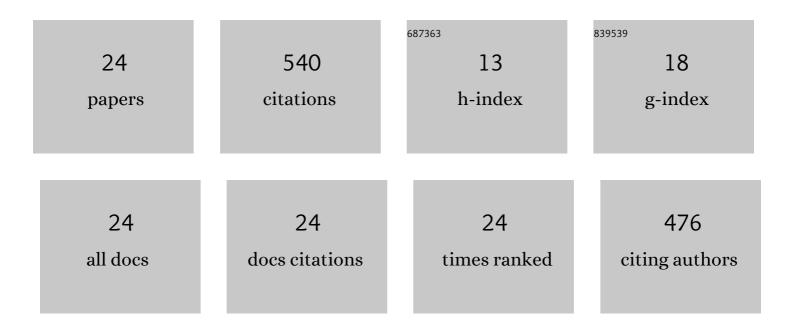
Jianjun Sun

List of Publications by Year in descending order

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ΙΙΔΝΙΓΙΝ SUN

| # | 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, , .

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|----|--|-----|-----------|
| 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 |