

# Brian Johnson

## List of Publications by Year in descending order

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28  
papers

1,310  
citations

1307594

7  
h-index

1372567

10  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Singular Perturbation and Small-Signal Stability for Inverter Networks. IEEE Transactions on Control of Network Systems, 2022, 9, 979-992.	3.7	10
2	Self-Synchronizing Cascaded Inverters With Virtual Oscillator Control. IEEE Transactions on Power Electronics, 2022, 37, 6424-6436.	7.9	9
3	Benchmarking Nonlinear Oscillators for Grid-Forming Inverter Control. IEEE Transactions on Power Electronics, 2022, 37, 10250-10266.	7.9	13
4	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
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	Spontaneous Phase Balancing in Delta-Connected Single-Phase Droop-Controlled Inverters. IEEE Transactions on Power Electronics, 2022, 37, 14115-14125.	7.9	6
7	Decentralized Carrier Phase Shifting for Optimal Harmonic Minimization in Asymmetric Parallel-Connected Inverters. IEEE Transactions on Power Electronics, 2021, 36, 5915-5925.	7.9	9
8	Design and implementation of a power smoothing system for cross-flow current turbines. SN Applied Sciences, 2021, 3, 1.	2.9	1
9	Modeling and Simulation of Power-Electronic Inverters in Analog Electronic Circuit Simulators. , 2021, , .		1
10	Grid-connected Self-synchronizing Cascaded H-Bridge Inverters with Autonomous Power Sharing. , 2021, , .		5
11	Dispatchable Virtual-oscillator-controlled Inverters with Current-limiting and MPPT Capabilities. , 2021, , .		6
12	Soft Switching Over the Entire Line Cycle for a Quadruple Active Bridge DCX in a DC to Three-Phase AC Module. , 2020, , .		2
13	A Pre-synchronization Strategy for Grid-forming Virtual Oscillator Controlled Inverters. , 2020, , .		15
14	Decentralized Control of Cascaded H-Bridge Inverters for Medium-Voltage Grid Integration. , 2020, , .		4
15	Comparison of Droop Control and Virtual Oscillator Control Realized by Andronov-Hopf Dynamics. , 2020, , .		16
16	Dispatchable Virtual Oscillator Control for Decentralized Inverter-dominated Power Systems: Analysis and Experiments. , 2019, , .		80
17	Decentralized Carrier Interleaving in Cascaded Multilevel DC-AC Converters. , 2019, , .		13
18	Adaptation of Commercial Current-controlled Inverters for Operation with Virtual Oscillator Control. , 2019, , .		15

#	ARTICLE	IF	CITATIONS
19	Levelized-Cost-of-Electricity-Driven Design Optimization for Medium-Voltage Transformerless Photovoltaic Converters. , 2019, , .		6
20	A Grid-compatible Virtual Oscillator Controller: Analysis and Design. , 2019, , .		74
21	An Interaction-Admittance Model for Multi-Inverter Grid-Connected Systems. IEEE Transactions on Power Electronics, 2019, 34, 7542-7557.	7.9	46
22	Cascaded quadruple active bridge structures for multilevel DC to three-phase AC conversion. , 2018, , .		4
23	Self-synchronizing Series-connected Inverters. , 2018, , .		6
24	Achieving a 100% Renewable Grid: Operating Electric Power Systems with Extremely High Levels of Variable Renewable Energy. IEEE Power and Energy Magazine, 2017, 15, 61-73.	1.6	846
25	Comparison of virtual oscillator and droop control. , 2017, , .		63
26	Decentralized interleaving of paralleled dc-dc buck converters. , 2017, , .		5
27	Stability assessment of a system comprising a single machine and inverter with scalable ratings. , 2017, , .		18
28	Nonlinear supersets to droop control. , 2015, , .		22