

# Roni Luhtala

## List of Publications by Year in descending order

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19  
papers

263  
citations

1163117

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h-index

1199594

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all docs

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docs citations

19  
times ranked

246  
citing authors

#	ARTICLE	IF	CITATIONS
1	Implementation of Real-Time Impedance-Based Stability Assessment of Grid-Connected Systems Using MIMO-Identification Techniques. IEEE Transactions on Industry Applications, 2018, 54, 5054-5063.	4.9	56
2	Hardware-in-the-Loop Methods for Real-Time Frequency-Response Measurements of on-Board Power Distribution Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 5769-5777.	7.9	54
3	Small-Signal Analysis of Photovoltaic Inverter With Impedance-Compensated Phase-Locked Loop in Weak Grid. IEEE Transactions on Energy Conversion, 2020, 35, 347-355.	5.2	28
4	Impedance-Based Interactions in Grid-Tied Three-Phase Inverters in Renewable Energy Applications. Energies, 2019, 12, 464.	3.1	20
5	Online Frequency Response Measurements of Grid-Connected Systems in Presence of Grid Harmonics and Unbalance. IEEE Transactions on Power Electronics, 2020, 35, 3343-3347.	7.9	19
6	Real-time impedance-based stability assessment of grid converter interactions. , 2017, , .		16
7	Identification of Three-Phase Grid Impedance in the Presence of Parallel Converters. Energies, 2019, 12, 2674.	3.1	14
8	Accurate Impedance Model of a Grid-Connected Inverter for Small-Signal Stability Assessment in High-Impedance Grids. IEEE Journal of Industry Applications, 2019, 8, 488-496.	1.1	11
9	Hardware-in-the-Loop Methods for Stability Analysis of Multiple Parallel Inverters in Three-Phase AC Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7149-7158.	5.4	10
10	Impedance-Based Stability Analysis of Multi-Parallel Inverters Applying Total Source Admittance. , 2019, , .		8
11	Using High-Bandwidth Voltage Amplifier to Emulate Grid-Following Inverter for AC Microgrid Dynamics Studies. Energies, 2019, 12, 379.	3.1	7
12	Practical Implementation of Adaptive SRF-PLL for Three-Phase Inverters Based on Sensitivity Function and Real-Time Grid-Impedance Measurements. Energies, 2020, 13, 1173.	3.1	7
13	Adaptive Method for Control Tuning of Grid-Connected Inverter Based on Grid Measurements During Start-Up. , 2019, , .		4
14	Improved Real-Time Stability Assessment of Grid-Connected Converters Using MIMO-Identification Methods. , 2018, , .		3
15	Amplitude Design of Perturbation Signal in Frequency-Domain Analysis of Grid-Connected Systems. IFAC-PapersOnLine, 2020, 53, 13161-13166.	0.9	3
16	Impedance-Based Sensitivity-Criterion for Grid-Connected Three-Phase Inverters. , 2018, , .		2
17	Combination of Orthogonal Injections in Impedance Measurements of Grid-Connected Systems. IEEE Access, 2020, 8, 178085-178096.	4.2	1
18	Adaptive Grid-Voltage Feedforward for Three-Phase Inverters applying Perturb and Observe Algorithm to minimize Current THD. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Adaptive Optimization of Current-Control Loop for Grid-Connected Inverters. , 2020, , .		0