Andrew J Roscoe

List of Publications by Year
in descending order

32	856	623574 14	887953 17
papers	citations	h-index	g-index

32	32	32	822
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	P and M Class Phasor Measurement Unit Algorithms Using Adaptive Cascaded Filters. IEEE Transactions on Power Delivery, 2013, 28, 1447-1459.	2.9	196
2	Architecture of a Network-in-the-Loop Environment for Characterizing AC Power-System Behavior. IEEE Transactions on Industrial Electronics, 2010, 57, 1245-1253.	5.2	68
3	Exploring the Relative Performance of Frequency-Tracking and Fixed-Filter Phasor Measurement Unit Algorithms Under C37.118 Test Procedures, the Effects of Interharmonics, and Initial Attempts at Merging P-Class Response With M-Class Filtering. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2140-2153.	2.4	64
4	Comparison of multiple power amplification types for power Hardware-in-the-Loop applications. , 2012, , .		57
5	Investigation of the sympathetic tripping problem in power systems with large penetrations of distributed generation. IET Generation, Transmission and Distribution, 2015, 9, 379-385.	1.4	51
6	The Case for Redefinition of Frequency and ROCOF to Account for AC Power System Phase Steps. , 2017, , .		45
7	Measurementâ€based analysis of the dynamic performance of microgrids using system identification techniques. IET Generation, Transmission and Distribution, 2015, 9, 90-103.	1.4	41
8	Blackâ€box dynamic equivalent model for microgrids using measurement data. IET Generation, Transmission and Distribution, 2014, 8, 851-861.	1.4	36
9	Field Measurement of Frequency and ROCOF in the Presence of Phase Steps. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1688-1695.	2.4	35
10	Instantaneous penetration level limits of nonâ€synchronous devices in the British power system. IET Renewable Power Generation, 2017, 11, 1211-1217.	1.7	31
11	Methodology for testing loss of mains detection algorithms for microgrids and distributed generation using real-time power hardware-in-the-loop based technique. , 2011, , .		25
12	Filter Design Masks for C37.118.1a-Compliant Frequency-Tracking and Fixed-Filter M-Class Phasor Measurement Units. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2096-2107.	2.4	23
13	Characterization of Time Delay in Power Hardware in the Loop Setups. IEEE Transactions on Industrial Electronics, 2021, 68, 2703-2713.	5.2	22
14	Dealing With Front-End White Noise on Differentiated Measurements Such as Frequency and ROCOF in Power Systems. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2579-2591.	2.4	21
15	A Novel Decentralized Responsibilizing Primary Frequency Control. IEEE Transactions on Power Systems, 2018, 33, 3199-3201.	4.6	18
16	Modeling a Reversible Solid Oxide Fuel Cell as a Storage Device Within AC Power Networks. Fuel Cells, 2012, 12, 773-786.	1.5	17
17	Smart frequency control for the future GB power system. , 2016, , .		17
18	P-Class Phasor Measurement Unit algorithms using adaptive filtering to enhance accuracy at off-nominal frequencies. , 2011, , .		15

#	Article	IF	Citations
19	Reliable Rate-of-Change-of-Frequency Measurements: Use Cases and Test Conditions. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6657-6666.	2.4	14
20	Choice and properties of adaptive and tunable digital boxcar (moving average) filters for power systems and other signal processing applications. , 2016, , .		13
21	Initialization and Synchronization of Power Hardware-In-The-Loop Simulations: A Great Britain Network Case Study. Energies, 2018, 11, 1087.	1.6	11
22	Improving frequency and ROCOF accuracy during faults, for P class Phasor Measurement Units. , 2013, , .		10
23	Application of a MW-scale motor-generator set to establish power-hardware-in-the-loop capability. , 2017, , .		8
24	Impact of low (zero) carbon power systems on power system protection: a new evaluation approach based on a flexible modelling and hardware testing platform. IET Renewable Power Generation, 2020, 14, 906-913.	1.7	6
25	Low-cost power systems metrology laboratory based on raspberry Pi. , 2018, , .		5
26	Realization of High Fidelity Power-Hardware-in-the-Loop Capability Using a MW-Scale Motor-Generator Set. IEEE Transactions on Industrial Electronics, 2020, 67, 6835-6844.	5.2	3
27	Requirements and Test Conditions for Reliable Rate-of-Change-of-Frequency Measurements. , 2019, , .		2
28	Dynamic performance of a low voltage microgrid with droop controlled distributed generation. , 2013, , .		1
29	Development of models to study VSC response to AC system faults and the potential impact on network protection. , 2014, , .		1
30	Modeling of distributed energy resources using laboratory-experimental results. , 2013, , .		0
31	The amended standard C37.118.1a and its implications for frequency-tracking m-class Phasor Measurement Units (PMUs). , 2014, , .		0
32	Measurements with uniform aggregated weighting using boxcar filters for time-synchronised metering, power quality assessment, and control. , 2015, , .		0