

# Paolo Attilio Pegoraro

## List of Publications by Year in descending order

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96  
papers

2,602  
citations

257450

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233421

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docs citations

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times ranked

1514  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing Feature Importance for Short-Term Prediction of Electricity Demand in Medium-Voltage Loads. <i>Energies</i> , 2022, 15, 549.	3.1	1
2	Enhanced PMU-Based Line Parameters Estimation and Compensation of Systematic Measurement Errors in Power Grids Considering Multiple Operating Conditions. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-12.	4.7	9
3	PMU-Based Estimation of Systematic Measurement Errors, Line Parameters, and Tap Changer Ratios in Three-Phase Power Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-12.	4.7	6
4	Monitoring and Automation of Complex Power Systems. <i>Energies</i> , 2022, 15, 2949.	3.1	0
5	Enhanced Support Recovery for PMU Measurements Based on Taylor's Fourier Compressive Sensing Approach. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-11.	4.7	3
6	Enhanced PMU-based Wide Area Measurement System with Integrated Power Quality and Fault Analysis. , 2022, , .		2
7	Power Quality Data Platform for Analysis and Location of Voltage Dips: a Preliminary Study. , 2022, , .		2
8	Tracking Power Systems Events: PMU, Reporting Rate, Interpolation. , 2022, , .		2
9	Synchronization Solutions for Power Quality Functionalities in Low Cost Smart Meters. , 2022, , .		3
10	Improved Fine Particles Monitoring in Smart Cities by Means of Advanced Data Concentrator. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-9.	4.7	4
11	Harmonic Synchrophasors Measurement Algorithms With Embedded Compensation of Voltage Transformer Frequency Response. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	4.7	15
12	Low-Latency, Three-Phase PMU Algorithms: Review and Performance Comparison. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2261.	2.5	5
13	Measurement of Synchrophasors with Stand Alone Merging Units: a Preliminary Study. , 2021, , .		8
14	Compensation of Systematic Measurement Errors in PMU-based Monitoring Systems for Transmission Grids. , 2021, , .		3
15	Impact of uncertainty sources on the voltage control of active distribution grids. , 2021, , .		3
16	Compressive Sensing-Based Harmonic Sources Identification in Smart Grids. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	4.7	16
17	An Augmented Branch Current Formulation for State Estimation in Distribution Systems. , 2021, , .		2
18	A PMU-based Technique for the Simultaneous Estimation of Systematic Measurement Errors, Line Parameters and Tap Changer Ratio. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
19	Compressive Sensing Taylor-Fourier and Windowing Approach for Synchronized Phasor, Frequency and ROCOF Measurements. , 2021, , .		2
20	Dynamic Synchrophasor Estimation by Extended Kalman Filter. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4818-4826.	4.7	18
21	New Kalman Filter Approach Exploiting Frequency Knowledge for Accurate PMU-Based Power System State Estimation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6713-6722.	4.7	28
22	Synchrophasor Estimation for Three-Phase Systems Based on Taylor Extended Kalman Filtering. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6723-6730.	4.7	20
23	Forecasting-Aided Monitoring for the Distribution System State Estimation. Complexity, 2020, 2020, 1-15.	1.6	11
24	Combined Impact of Voltage Transformer and Estimation Algorithm on Harmonic Synchrophasors Measurements. , 2020, , .		2
25	Impact of Measurement Uncertainties on Compressive Sensing-based Harmonic Source Estimation Algorithms. , 2020, , .		2
26	Proposals and Analysis of Space Vector-Based Phase-Locked-Loop Techniques for Synchrophasor, Frequency, and ROCOF Measurements. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2345-2354.	4.7	10
27	A Hybrid Control System for LC filters that couple Energy Storage Systems with AC grids. , 2020, , .		0
28	Accurate Measurement System for Power Quality Monitoring in a Real Grid Context. , 2020, , .		1
29	Identification and Estimation of Harmonic Sources Based on Compressive Sensing. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 95-104.	4.7	44
30	Line Impedance Estimation Based on Synchrophasor Measurements for Power Distribution Systems. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1002-1013.	4.7	72
31	Compensation of Systematic Measurement Errors in a PMU-Based Monitoring System for Electric Distribution Grids. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3871-3882.	4.7	40
32	A Proposal for a Data Concentrator for Smart City Applications. , 2019, , .		2
33	A Compressive Sensing Approach for Fault Location in Distribution Grid Branches. , 2019, , .		7
34	PMUâ€™s Behavior with Flicker-Generating Voltage Fluctuations: An Experimental Analysis. Energies, 2019, 12, 3355.	3.1	10
35	An Active Phasor Data Concentrator Suitable for Control and Protection Applications. , 2019, , .		5
36	Space Vector Taylorâ€™Fourier Models for Synchrophasor, Frequency, and ROCOF Measurements in Three-Phase Systems. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1313-1321.	4.7	22

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37	Real-Scenario Testing of an Active Phasor Data Concentrator. , 2019, , .		1
38	A New Kalman Filter Approach Including System Frequency for an Effective PMU-based Power System State Estimation. , 2019, , .		2
39	Three-Phase Synchrophasor Estimation Through Taylor Extended Kalman Filter. , 2019, , .		2
40	Impact of Current and Power Measurements on Distribution System State Estimation Uncertainty. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3992-4002.	4.7	22
41	Effect of Unbalance on Positive-Sequence Synchrophasor, Frequency, and ROCOF Estimations. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1036-1046.	4.7	23
42	Cloud-based IoT solution for state estimation in smart grids: Exploiting virtualization and edge-intelligence technologies. Computer Networks, 2018, 130, 156-165.	5.1	50
43	A Multidisciplinary Approach for the Development of Smart Distribution Networks. Energies, 2018, 11, 2530.	3.1	18
44	Active Phasor Data Concentrator performing adaptive management of latency. Sustainable Energy, Grids and Networks, 2018, 16, 270-277.	3.9	23
45	Impact of Capacitor Voltage Transformers on Phasor Measurement Units Dynamic Performance. , 2018, , .		6
46	Low-Cost Implementation of an Active Phasor Data Concentrator for Smart Grid. , 2018, , .		5
47	An Efficient and Accurate Solution for Distribution System State Estimation with Multiarea Architecture. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 910-919.	4.7	58
48	PMU-Based Distribution System State Estimation with Adaptive Accuracy Exploiting Local Decision Metrics and IoT Paradigm. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 704-714.	4.7	48
49	Design and Performance Prediction of Space Vector-Based PMU Algorithms. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 394-404.	4.7	36
50	Bayesian Approach for Distribution System State Estimation With Non-Gaussian Uncertainty Models. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2957-2966.	4.7	53
51	Phasor measurement units performance in three-phase unbalanced systems. , 2017, , .		7
52	Adaptive management of synchrophasor latency for an active phasor data concentrator. , 2017, , .		5
53	Employment of Interpolated DFT-based PMU Algorithms in Three-Phase Systems. , 2017, , .		8
54	Guest Editorial: Special Section on the Seventh IEEE International Workshop on Applied Measurements for Power Systems (AMPS 2016) Aachen, Germany, September 28â€“30, 2016. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2214-2215.	4.7	0

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55	Harmonics Detector in Distribution Systems based on Compressive Sensing. , 2017, , .		4
56	Handling Instrument Transformers and PMU Errors for the Estimation of Line Parameters in Distribution Grids. , 2017, , .		13
57	Bandwidth and Accuracy-Aware State Estimation for Smart Grids Using Software Defined Networks. Energies, 2017, 10, 858.	3.1	7
58	Automated test system to assess reporting latency in PMUs. , 2016, , .		6
59	Bayesian distribution system state estimation in presence of non-Gaussian pseudo-measurements. , 2016, , .		7
60	Dynamic fundamental and harmonic synchrophasor estimation by Extended Kalman filter. , 2016, , .		18
61	Analysis of PMU response under voltage fluctuations in distribution grids. , 2016, , .		6
62	Uncertainty of Voltage Profile in PMU-Based Distribution System State Estimation. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 988-998.	4.7	72
63	Critical analysis of PMU testing procedures for step response evaluation. , 2015, , .		2
64	Performance of three-phase WLS distribution system state estimation approaches. , 2015, , .		31
65	Multiarea Distribution System State Estimation. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1140-1148.	4.7	84
66	Smart electric energy measurements in power distribution grids. IEEE Instrumentation and Measurement Magazine, 2015, 18, 17-21.	1.6	34
67	A Distributed PMU for Electrical Substations With Wireless Redundant Process Bus. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1149-1157.	4.7	42
68	An efficient method to include equality constraints in branch current distribution system state estimation. Eurasip Journal on Advances in Signal Processing, 2015, 2015, .	1.7	8
69	Compressive Sensing of a Taylor-Fourier Multifrequency Model for Synchrophasor Estimation. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 3274-3283.	4.7	119
70	Uncertainty sources affecting voltage profile in Distribution System State Estimation. , 2015, , .		9
71	Assessment of time synchronization quality in a distributed PMU. , 2015, , .		3
72	Electrical distribution system state estimation: measurement issues and challenges. IEEE Instrumentation and Measurement Magazine, 2014, 17, 36-42.	1.6	100

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73	Effects of Measurements and Pseudomeasurements Correlation in Distribution System State Estimation. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2813-2823.	4.7	84
74	Compressive sensing plus Taylor-Fourier Transform for synchrophasor estimation. , 2014, , .		5
75	Experimental characterization of dynamic methods for synchrophasor measurements. , 2014, , .		6
76	Optimal Meter Placement for Robust Measurement Systems in Active Distribution Grids. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1096-1105.	4.7	119
77	DMS Cyber-Physical Simulation for Assessing the Impact of State Estimation and Communication Media in Smart Grid Operation. IEEE Transactions on Power Systems, 2014, 29, 2436-2446.	6.5	94
78	Improving availability of distributed PMU in electrical substations using wireless redundant process bus. , 2014, , .		4
79	A Fast and Accurate PMU Algorithm for P+M Class Measurement of Synchrophasor and Frequency. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2837-2845.	4.7	143
80	Effects of PMU measurements correlation on state estimation results. , 2014, , .		6
81	Optimal placement for robust distributed measurement systems in active distribution grids. , 2013, , .		10
82	Impact of input data correlation on Distribution System State Estimation. , 2013, , .		9
83	Efficient Branch-Current-Based Distribution System State Estimation Including Synchronized Measurements. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2419-2429.	4.7	210
84	Robustness-Oriented Meter Placement for Distribution System State Estimation in Presence of Network Parameter Uncertainty. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 954-962.	4.7	68
85	Toward a class &#x201C;P + M&#x201D; Phasor Measurement Unit. , 2013, , .		6
86	Co-simulation of distribution active management and distribution state estimation to reduce harmful effects of inaccuracies. , 2013, , .		4
87	Adaptive Taylor-Fourier synchrophasor estimation for fast response to changing conditions. , 2012, , .		25
88	Branch current state estimator for distribution system based on synchronized measurements. , 2012, , .		13
89	Trade-Offs in PMU Deployment for State Estimation in Active Distribution Grids. IEEE Transactions on Smart Grid, 2012, 3, 915-924.	9.0	259
90	Fundamental and harmonic synchrophasors estimation using modified Taylor-Kalman filter. , 2012, , .		12

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91	PMU and smart metering deployment for state estimation in active distribution grids. , 2012, , .		33
92	Impact of the Model on the Accuracy of Synchrophasor Measurement. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2179-2188.	4.7	106
93	Performance comparison of algorithms for synchrophasors measurements under dynamic conditions. , 2011, , .		22
94	Harmonic Source Estimation in Distribution Systems. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3351-3359.	4.7	40
95	Harmonic source estimation in distribution systems. , 2010, , .		2
96	Internet Traffic Measurement: A Critical Study of Wavelet Analysis. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 800-806.	4.7	4