

Eduardo Cotilla-Sanchez

List of Publications by Year in descending order

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52
papers

1,055
citations

687363
13
h-index

552781
26
g-index

52
all docs

52
docs citations

52
times ranked

1055
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Attribute Partitioning of Power Networks Based on Electrical Distance. IEEE Transactions on Power Systems, 2013, 28, 4979-4987.	6.5	180
2	Dynamic Modeling of Cascading Failure in Power Systems. IEEE Transactions on Power Systems, 2016, 31, 2085-2095.	6.5	174
3	Comparing the Topological and Electrical Structure of the North American Electric Power Infrastructure. IEEE Systems Journal, 2012, 6, 616-626.	4.6	168
4	Benchmarking and Validation of Cascading Failure Analysis Tools. IEEE Transactions on Power Systems, 2016, 31, 4887-4900.	6.5	122
5	Predicting Critical Transitions From Time Series Synchrophasor Data. IEEE Transactions on Smart Grid, 2012, 3, 1832-1840.	9.0	48
6	A Monte Carlo methodology for earthquake impact analysis on the electrical grid. Electric Power Systems Research, 2020, 184, 106332.	3.6	42
7	Dynamic Frequency and Amplitude Estimation for Three-Phase Unbalanced Power Systems Using the Unscented Kalman Filter. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3387-3395.	4.7	31
8	Understanding Early Indicators of Critical Transitions in Power Systems From Autocorrelation Functions. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2747-2760.	5.4	22
9	Electrical grid resilience framework with uncertainty. Electric Power Systems Research, 2020, 189, 106801.	3.6	21
10	Assessing the Impact of the Grid-Connected Pacific Marine Energy Center Wave Farm. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 1011-1020.	5.4	20
11	Evaluating the impact of modeling assumptions for cascading failure simulation. , 2012, , .		16
12	A generative graph model for electrical infrastructure networks. Journal of Complex Networks, 2019, 7, 128-162.	1.8	16
13	Resilience in an Evolving Electrical Grid. Energies, 2021, 14, 694.	3.1	15
14	A Learning Scheme for Microgrid Reconnection. IEEE Transactions on Power Systems, 2018, 33, 691-700.	6.5	14
15	Adaptive master-slave unscented Kalman filter for grid voltage frequency estimation. IET Signal Processing, 2018, 12, 496-505.	1.5	14
16	A Risk-Based Approach to Assess the Operational Resilience of Transmission Grids. Applied Sciences (Switzerland), 2020, 10, 4761.	2.5	14
17	Transmission Hosting Capacity of Distributed Energy Resources. IEEE Transactions on Sustainable Energy, 2021, 12, 794-801.	8.8	13
18	Augmenting the Traditional Bus-Branch Model for Seismic Resilience Analysis. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
19	On PMU Data Integrity Under GPS Spoofing Attacks: A Sparse Error Correction Framework. IEEE Transactions on Power Systems, 2021, 36, 5317-5332.	6.5	9
20	A backend framework for the efficient management of power system measurements. Electric Power Systems Research, 2016, 140, 797-805.	3.6	7
21	Charging Analysis of Ground Support Vehicles in an Electrified Airport. , 2019, , .		7
22	Load modeling methodologies for cascading outage simulation considering power system stability. , 2013, , .		6
23	A rapid PMU-based load composition and PMU estimation method. Electric Power Systems Research, 2017, 143, 44-52.	3.6	6
24	SPARSE ERROR CORRECTION FOR PMU DATA UNDER GPS SPOOFING ATTACKS. , 2018, , .		6
25	Estimating the impact of ocean wave energy on power system reliability with a well-being approach. IET Renewable Power Generation, 2020, 14, 608-615.	3.1	6
26	Spatio-Temporal Frequency Domain Analysis of PMU Data for Unsupervised Event Detection. , 2021, , .		6
27	Understanding the Impact of Decision Making on Robustness During Complex System Design: More Resilient Power Systems. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2020, 6, .	1.1	6
28	A policy switching approach to consolidating load shedding and islanding protection schemes. , 2014, , .		5
29	Exploring security metrics for electric grid infrastructures leveraging attack graphs. , 2016, , .		5
30	uGrid: Reliable Minigrid Design and Planning Toolset for Rural Electrification. IEEE Access, 2019, 7, 163988-163999.	4.2	5
31	Evaluating Measurement-Based Dynamic Load Modeling Techniques and Metrics. IEEE Transactions on Power Systems, 2020, 35, 1805-1811.	6.5	5
32	Calculation of the autocorrelation function of the stochastic single machine infinite bus system. , 2013, , .		4
33	Comparative study of clustering techniques for real-time dynamic model reduction. Statistical Analysis and Data Mining, 2017, 10, 263-276.	2.8	4
34	Modeling power system buses using performance based earthquake engineering methods. , 2017, , .		4
35	A Power-Balanced Clustering Algorithm to Improve Electrical Infrastructure Resiliency. , 2018, , .		4
36	Impacts of Earthquakes on Electrical Grid Resilience. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
37	Dynamic probabilistic risk assessment of cascading outages. , 2015, , .		3
38	Load oscillating smart meter attack. , 2016, , .		3
39	Managing PMU data sets with bitmap indexes. , 2014, , .		2
40	A Coupled Karhunen-Loève and anisotropic sparse grid interpolation method for the probabilistic load flow problem. Electric Power Systems Research, 2021, 193, 107044.	3.6	2
41	An Optimization Framework for Decision Making in Large, Collaborative Energy Supply Systems. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	1
42	Rapid Method for Generation Prioritization during System Restoration with Renewable Resources. , 2019, , .		1
43	Data Driven Sparse Error Correction for PMU Measurements under GPS Spoofing Attacks. , 2021, , .		1
44	Exponential Modeling of Equipment Degradation in the Grid for More Reliable Contingency Analysis. , 2021, , .		1
45	Transient Voltage Stability Effects on Hosting Capacity of Behind-the-Meter Devices. , 2020, , .		1
46	Mitigation of GPS Spoofing Attacks on PMUs via Multi-Period Sparse Error Correction. , 2021, , .		1
47	Relaxation Based Modeling of GMD Induced Cascading Failures in PowerModelsGMD.jl. , 2021, , .		1
48	Social acceptance: Threats to effective smart grid deployment and power systems resilience. , 2014, , .		0
49	Rapid grid state estimation using Singular Value Decomposition similarity matching. , 2015, , .		0
50	Advancing wave energy converter array-to-grid transmission systems. , 2015, , .		0
51	Dynamic Composite Load Model Priority Placement Based on Electrical Centrality. , 2018, , .		0
52	Using Critical Slowing Down Features to Enhance Performance of Artificial Neural Networks for Time-Domain Power System Data. , 2021, , .		0