Evangelos Farantatos

List of Publications by Year
in descending order

30 papers	594 citations	623734 14 h-index	610901 24 g-index
30 all docs	30 docs citations	30 times ranked	446 citing authors

#	Article	IF	Citations
1	Forced Oscillation Grid Vulnerability Analysis and Mitigation Using Inverter-Based Resources: Texas Grid Case Study. Energies, 2022, 15, 2819.	3.1	0
2	Impact of Inverter-Based Resources on Negative Sequence Quantities-Based Protection Elements. IEEE Transactions on Power Delivery, 2021, 36, 289-298.	4.3	61
3	A Comprehensive Method to Mitigate Forced Oscillations in Large Interconnected Power Grids. IEEE Access, 2021, 9, 22503-22515.	4.2	14
4	Hierarchical Coordinated Fast Frequency Control Using Inverter-Based Resources. IEEE Transactions on Power Systems, 2021, 36, 4992-5005.	6.5	12
5	Analysis and Mitigation of the Communication Delay Impacts on Wind Farm Central SSI Damping Controller. IEEE Access, 2021, 9, 105641-105650.	4.2	5
6	Impact of Inverter Based Resources on System Protection. Energies, 2021, 14, 1050.	3.1	37
7	Impact of Inverter-Based Resources on Memory-Polarized Distance and Directional Protective Relay Elements. , 2021, , .		6
8	Simulation of 100% Inverter-Based Resource Grids With Positive Sequence Modeling. IEEE Electrification Magazine, 2021, 9, 62-71.	1.8	7
9	Modeling of Li-ion battery energy storage systems (BESSs) for grid fault analysis. Electric Power Systems Research, 2021, 196, 107160.	3.6	9
10	Measurement-Based Fast Coordinated Voltage Control for Transmission Grids. IEEE Transactions on Power Systems, 2021, 36, 3416-3429.	6.5	8
11	Short circuit network equivalents of systems with inverter-based resources. Electric Power Systems Research, 2021, 199, 107314.	3.6	6
12	Review of Low-Rank Data-Driven Methods Applied to Synchrophasor Measurement. IEEE Open Access Journal of Power and Energy, 2021, 8, 532-542.	3.4	4
13	Negative sequence quantities-based protection under inverter-based resources Challenges and impact of the German grid code. Electric Power Systems Research, 2020, 188, 106573.	3.6	17
14	Positive sequence voltage source converter mathematical model for use in low short circuit systems. IET Generation, Transmission and Distribution, 2020, 14, 87-97.	2.5	28
15	Transient stability analysis and stability margin evaluation of phaseâ€locked loop synchronised converterâ€based generators. IET Generation, Transmission and Distribution, 2020, 14, 5000-5010.	2.5	14
16	Power sharing for transmission systems with 100% inverterâ€based generating resources. IET Generation, Transmission and Distribution, 2020, 14, 6504-6511.	2.5	3
17	A Generic EMT-Type Model for Wind Parks With Permanent Magnet Synchronous Generator Full Size Converter Wind Turbines. IEEE Power and Energy Technology Systems Journal, 2019, 6, 131-141.	2.8	41
18	Field validation of generic wind park models using fault records. Journal of Modern Power Systems and Clean Energy, 2019, 7, 826-836.	5.4	15

#	Article	IF	Citations
19	Impact of Wind Generation on Power Swing Protection. IEEE Transactions on Power Delivery, 2019, 34, 1118-1128.	4.3	38
20	Short-Circuit Model for Type-IV Wind Turbine Generators With Decoupled Sequence Control. IEEE Transactions on Power Delivery, 2019, 34, 1998-2007.	4.3	47
21	An Adaptive Wide-Area Damping Controller via FACTS for the New York State Grid Using a Measurement-Driven Model. , 2019, , .		4
22	Operation paradigm of an all converter interfaced generation bulk power system. IET Generation, Transmission and Distribution, 2018, 12, 4240-4248.	2.5	13
23	Modelless Data Quality Improvement of Streaming Synchrophasor Measurements by Exploiting the Low-Rank Hankel Structure. IEEE Transactions on Power Systems, 2018, 33, 6966-6977.	6.5	50
24	An Accurate Type III Wind Turbine Generator Short Circuit Model for Protection Applications. IEEE Transactions on Power Delivery, 2017, 32, 2370-2379.	4.3	39
25	Observability of nonlinear power system dynamics using synchrophasor data. International Transactions on Electrical Energy Systems, 2016, 26, 952-967.	1.9	15
26	Design and implementation of a measurement-based adaptive wide-area damping controller considering time delays. Electric Power Systems Research, 2016, 130, 1-9.	3.6	37
27	Phasor domain modeling of type-IV wind turbine generator for protection studies. , 2015, , .		9
28	Measurementâ€based correlation approach for power system dynamic response estimation. IET Generation, Transmission and Distribution, 2015, 9, 1474-1484.	2.5	27
29	Phasor domain modeling of Type III wind turbine generator for protection studies. , 2015, , .		11
30	Short-circuit current contribution of converter interfaced wind turbines and the impact on system protection. , 2013, , .		17