

# Antonio Gomez-Exposito

## List of Publications by Year in descending order

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36  
papers

1,806  
citations

304743

22  
h-index

414414

32  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1689  
citing authors

#	ARTICLE	IF	CITATIONS
1	Power System Dynamic State Estimation: Motivations, Definitions, Methodologies, and Future Work. IEEE Transactions on Power Systems, 2019, 34, 3188-3198.	6.5	417
2	A Multilevel State Estimation Paradigm for Smart Grids. Proceedings of the IEEE, 2011, 99, 952-976.	21.3	217
3	A taxonomy of multi-area state estimation methods. Electric Power Systems Research, 2011, 81, 1060-1069.	3.6	155
4	Roles of Dynamic State Estimation in Power System Modeling, Monitoring and Operation. IEEE Transactions on Power Systems, 2021, 36, 2462-2472.	6.5	104
5	Hierarchical Control of HV-MTDC Systems With Droop-Based Primary and OPF-Based Secondary. IEEE Transactions on Smart Grid, 2015, 6, 1502-1510.	9.0	85
6	State Estimation in Two Time Scales for Smart Distribution Systems. IEEE Transactions on Smart Grid, 2015, 6, 421-430.	9.0	84
7	Hierarchical Wide-Area Control of Power Systems Including Wind Farms and FACTS for Short-Term Frequency Regulation. IEEE Transactions on Power Systems, 2012, 27, 2084-2092.	6.5	58
8	An Adaptive Nonlinear Controller for DFIM-Based Wind Energy Conversion Systems. IEEE Transactions on Energy Conversion, 2008, 23, 1025-1035.	5.2	56
9	Bilinear Power System State Estimation. IEEE Transactions on Power Systems, 2012, 27, 493-501.	6.5	52
10	Two-Level State Estimation With Local Measurement Pre-Processing. IEEE Transactions on Power Systems, 2009, 24, 676-684.	6.5	49
11	State Estimation for Smart Distribution Substations. IEEE Transactions on Smart Grid, 2012, 3, 986-995.	9.0	49
12	Adaptive Control Strategy for VSC-Based Systems Under Unbalanced Network Conditions. IEEE Transactions on Smart Grid, 2010, 1, 311-319.	9.0	45
13	An Improved Control Strategy for Hybrid Wind Farms. IEEE Transactions on Sustainable Energy, 2010, 1, 131-141.	8.8	42
14	Future power transmission: Visions, technologies and challenges. Renewable and Sustainable Energy Reviews, 2018, 94, 285-301.	16.4	39
15	Constrained Robust Unscented Kalman Filter for Generalized Dynamic State Estimation. IEEE Transactions on Power Systems, 2019, 34, 3637-3646.	6.5	38
16	Software Sensor-Based STATCOM Control Under Unbalanced Conditions. IEEE Transactions on Power Delivery, 2009, 24, 1623-1632.	4.3	37
17	A Factorized Approach to WLS State Estimation. IEEE Transactions on Power Systems, 2011, 26, 1724-1732.	6.5	33
18	Grid-forming VSC control in four-wire systems with unbalanced nonlinear loads. Electric Power Systems Research, 2017, 152, 249-256.	3.6	33

#	ARTICLE	IF	CITATIONS
19	On the potential contribution of rooftop PV to a sustainable electricity mix: The case of Spain. Renewable and Sustainable Energy Reviews, 2020, 132, 110074.	16.4	29
20	City-Friendly Smart Network Technologies and Infrastructures: The Spanish Experience. Proceedings of the IEEE, 2018, 106, 626-660.	21.3	28
21	Factorized Load Flow. IEEE Transactions on Power Systems, 2013, 28, 4607-4614.	6.5	22
22	Influence of rooftop PV generation on net demand, losses and network congestions: A case study. International Journal of Electrical Power and Energy Systems, 2019, 106, 68-86.	5.5	22
23	Computation of Maximum Loading Points via the Factored Load Flow. IEEE Transactions on Power Systems, 2016, 31, 4128-4134.	6.5	20
24	Self-sufficient renewable energy supply in urban areas: Application to the city of Seville. Sustainable Cities and Society, 2019, 46, 101450.	10.4	20
25	Equality-constrained bilinear state estimation. IEEE Transactions on Power Systems, 2013, 28, 902-910.	6.5	18
26	Network impact of increasing distributed PV hosting: A utility-scale case study. Solar Energy, 2021, 217, 173-186.	6.1	12
27	Robustness of electricity systems with nearly 100% share of renewables: A worst-case study. Renewable and Sustainable Energy Reviews, 2022, 155, 111932.	16.4	10
28	Evaluation and improvement of supply reliability indices for distribution networks. , 2008, , .		7
29	Offset-Assisted Factored Solution of Nonlinear Systems. Algorithms, 2016, 9, 2.	2.1	7
30	Ancillary Services in Hybrid AC/DC Low Voltage Distribution Networks. Energies, 2019, 12, 3591.	3.1	6
31	Factored solution of nonlinear equation systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140236.	2.1	4
32	Algebraic Framework for Outage Information Management in Distribution Networks. IEEE Transactions on Power Systems, 2018, 33, 6806-6815.	6.5	3
33	Compensated Load Flow Solutions for Distribution System State Estimation. Energies, 2020, 13, 3100.	3.1	3
34	Factored solution of infeasible load flow cases. , 2014, , .		2
35	Control strategy for a mid-size wind energy conversion system. , 2010, , .		0
36	State estimation in distribution systems. , 2023, , 562-584.		0