

Carlos Mateo Domingo

List of Publications by Year in descending order

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39
papers

1,871
citations

471509

17
h-index

434195

31
g-index

39
all docs

39
docs citations

39
times ranked

1853
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of the Impact of Plug-in Electric Vehicles on Distribution Networks. IEEE Transactions on Power Systems, 2011, 26, 206-213.	6.5	965
2	A Reference Network Model for Large-Scale Distribution Planning With Automatic Street Map Generation. IEEE Transactions on Power Systems, 2011, 26, 190-197.	6.5	121
3	Short-time Fourier transform with the window size fixed in the frequency domain. , 2018, 77, 13-21.		83
4	A Review of Power Distribution Test Feeders in the United States and the Need for Synthetic Representative Networks. Energies, 2017, 10, 1896.	3.1	66
5	European representative electricity distribution networks. International Journal of Electrical Power and Energy Systems, 2018, 99, 273-280.	5.5	58
6	Impact of solar PV self-consumption policies on distribution networks and regulatory implications. Solar Energy, 2018, 176, 62-72.	6.1	57
7	Distribution network costs under different penetration levels of distributed generation. European Transactions on Electrical Power, 2011, 21, 1869-1888.	1.0	42
8	Cost-benefit analysis of battery storage in medium-voltage distribution networks. IET Generation, Transmission and Distribution, 2016, 10, 815-821.	2.5	40
9	Optimal Electrification Planning Incorporating On- and Off-Grid Technologies: The Reference Electrification Model (REM). Proceedings of the IEEE, 2019, 107, 1872-1905.	21.3	36
10	Large-Scale MV/LV Transformer Substation Planning Considering Network Costs and Flexible Area Decomposition. IEEE Transactions on Power Delivery, 2013, 28, 2245-2253.	4.3	34
11	Overcoming the barriers that hamper a large-scale integration of solar photovoltaic power generation in European distribution grids. Solar Energy, 2017, 153, 574-583.	6.1	33
12	Building Highly Detailed Synthetic Electric Grid Data Sets for Combined Transmission and Distribution Systems. IEEE Open Access Journal of Power and Energy, 2020, 7, 478-488.	3.4	33
13	Building Large-Scale U.S. Synthetic Electric Distribution System Models. IEEE Transactions on Smart Grid, 2020, 11, 5301-5313.	9.0	33
14	Validation of Synthetic U.S. Electric Power Distribution System Data Sets. IEEE Transactions on Smart Grid, 2020, 11, 4477-4489.	9.0	33
15	Replicability Analysis of PLC PRIME Networks for Smart Metering Applications. IEEE Transactions on Smart Grid, 2018, 9, 827-835.	9.0	28
16	Bridging the gap between the short-time Fourier transform (STFT), wavelets, the constant-Q transform and multi-resolution STFT. Signal, Image and Video Processing, 2020, 14, 1535-1543.	2.7	22
17	A comprehensive techno-economic assessment of the impact of natural gas-fueled distributed generation in European electricity distribution networks. Energy, 2020, 192, 116523.	8.8	20
18	Short-Time Fourier Transform with the Window Size Fixed in the Frequency Domain (STFT-FD): Implementation. SoftwareX, 2018, 8, 5-8.	2.6	19

#	ARTICLE	IF	CITATIONS
19	Economic benefits of integrating Active Demand in distribution network planning: A Spanish case study. <i>Electric Power Systems Research</i> , 2016, 136, 331-340.	3.6	17
20	Phase-selection algorithms to minimize cost and imbalance in U.S. synthetic distribution systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 120, 106042.	5.5	13
21	Techno-economic assessment of forecasting and communication on centralized voltage control with high PV penetration. <i>Electric Power Systems Research</i> , 2017, 151, 338-347.	3.6	12
22	Experiences developing large-scale synthetic U.S.-style distribution test systems. <i>Electric Power Systems Research</i> , 2021, 190, 106665.	3.6	12
23	Power line communication transfer function computation in real network configurations for performance analysis applications. <i>IET Communications</i> , 2017, 11, 897-904.	2.2	10
24	Reference Network Models: A Computational Tool for Planning and Designing Large-Scale Smart Electricity Distribution Grids. <i>Power Systems</i> , 2013, , 247-279.	0.5	10
25	Assessing the impact of distributed generation on distribution network costs. , 2009, , .		9
26	Location and Sizing of Micro-Grids to Improve Continuity of Supply in Radial Distribution Networks. <i>Energies</i> , 2020, 13, 3495.	3.1	9
27	Analysis of atrial and ventricular premature contractions using the Short Time Fourier Transform with the window size fixed in the frequency domain. <i>Biomedical Signal Processing and Control</i> , 2021, 69, 102835.	5.7	8
28	Assessment of the impact of a fully electrified postal fleet for urban freight transportation. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 129, 106770.	5.5	7
29	Optimal degree of smart transformer substations in distribution networks for reliability improvement. , 2012, , .		6
30	Distribution planning with hourly profiles for analysing electric vehicle charging strategies. <i>International Journal of Electric and Hybrid Vehicles</i> , 2016, 8, 1.	0.3	6
31	Development of a current sensor based on active materials for high-voltage transmission systems. <i>Smart Materials and Structures</i> , 2006, 15, 563-570.	3.5	5
32	Elastic Guided Wave Propagation in Electrical Cables. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 1423-1429.	3.0	5
33	Optimal investment in smart MV/LV substations to improve continuity of supply. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 62, 410-418.	5.5	5
34	The economic impact of demand response on distribution network planning. , 2016, , .		5
35	Improving distribution network resilience through automation, distributed energy resources, and undergrounding. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 141, 108116.	5.5	5
36	Mitigating the impact of distributed generation on distribution network costs through advanced response options. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
37	Experimental validation of ultrasonic guided modes in electrical cables by optical interferometry. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 629-636.	3.0	0
38	Integrated models for electrical distribution network planning and district-scale building energy use. , 2021, , .		0
39	The Impact of Distributed Energy Resources on the Networks. , 2021, , 185-200.		0