

Carlos Mateo Domingo

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Improving distribution network resilience through automation, distributed energy resources, and undergrounding. International Journal of Electrical Power and Energy Systems, 2022, 141, 108116. | 5.5 | 5 |
| 2 | Experiences developing large-scale synthetic U.S.-style distribution test systems. Electric Power Systems Research, 2021, 190, 106665. | 3.6 | 12 |
| 3 | Integrated models for electrical distribution network planning and district-scale building energy use. , 2021, , . | | 0 |
| 4 | Assessment of the impact of a fully electrified postal fleet for urban freight transportation. International Journal of Electrical Power and Energy Systems, 2021, 129, 106770. | 5.5 | 7 |
| 5 | Analysis of atrial and ventricular premature contractions using the Short Time Fourier Transform with the window size fixed in the frequency domain. Biomedical Signal Processing and Control, 2021, 69, 102835. | 5.7 | 8 |
| 6 | The Impact of Distributed Energy Resources on the Networks. , 2021, , 185-200. | | 0 |
| 7 | 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 |
| 8 | Location and Sizing of Micro-Grids to Improve Continuity of Supply in Radial Distribution Networks. Energies, 2020, 13, 3495. | 3.1 | 9 |
| 9 | 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 |
| 10 | 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 |
| 11 | Building Large-Scale U.S. Synthetic Electric Distribution System Models. IEEE Transactions on Smart Grid, 2020, 11, 5301-5313. | 9.0 | 33 |
| 12 | Validation of Synthetic U.S. Electric Power Distribution System Data Sets. IEEE Transactions on Smart Grid, 2020, 11, 4477-4489. | 9.0 | 33 |
| 13 | Phase-selection algorithms to minimize cost and imbalance in U.S. synthetic distribution systems. International Journal of Electrical Power and Energy Systems, 2020, 120, 106042. | 5.5 | 13 |
| 14 | 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 |
| 15 | European representative electricity distribution networks. International Journal of Electrical Power and Energy Systems, 2018, 99, 273-280. | 5.5 | 58 |
| 16 | Short-Time Fourier Transform with the Window Size Fixed in the Frequency Domain (STFT-FD): Implementation. SoftwareX, 2018, 8, 5-8. | 2.6 | 19 |
| 17 | Replicability Analysis of PLC PRIME Networks for Smart Metering Applications. IEEE Transactions on Smart Grid, 2018, 9, 827-835. | 9.0 | 28 |
| 18 | Short-time Fourier transform with the window size fixed in the frequency domain. , 2018, 77, 13-21. | | 83 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Impact of solar PV self-consumption policies on distribution networks and regulatory implications. Solar Energy, 2018, 176, 62-72. | 6.1 | 57 |
| 20 | Power line communication transfer function computation in real network configurations for performance analysis applications. IET Communications, 2017, 11, 897-904. | 2.2 | 10 |
| 21 | Techno-economic assessment of forecasting and communication on centralized voltage control with high PV penetration. Electric Power Systems Research, 2017, 151, 338-347. | 3.6 | 12 |
| 22 | 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 |
| 23 | 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 |
| 24 | Economic benefits of integrating Active Demand in distribution network planning: A Spanish case study. Electric Power Systems Research, 2016, 136, 331-340. | 3.6 | 17 |
| 25 | The economic impact of demand response on distribution network planning. , 2016, , . | | 5 |
| 26 | Distribution planning with hourly profiles for analysing electric vehicle charging strategies. International Journal of Electric and Hybrid Vehicles, 2016, 8, 1. | 0.3 | 6 |
| 27 | Cost-benefit analysis of battery storage in medium-voltage distribution networks. IET Generation, Transmission and Distribution, 2016, 10, 815-821. | 2.5 | 40 |
| 28 | Optimal investment in smart MV/LV substations to improve continuity of supply. International Journal of Electrical Power and Energy Systems, 2014, 62, 410-418. | 5.5 | 5 |
| 29 | 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 |
| 30 | Reference Network Models: A Computational Tool for Planning and Designing Large-Scale Smart Electricity Distribution Grids. Power Systems, 2013, , 247-279. | 0.5 | 10 |
| 31 | Optimal degree of smart transformer substations in distribution networks for reliability improvement. , 2012, , . | | 6 |
| 32 | Assessment of the Impact of Plug-in Electric Vehicles on Distribution Networks. IEEE Transactions on Power Systems, 2011, 26, 206-213. | 6.5 | 965 |
| 33 | 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 |
| 34 | Distribution network costs under different penetration levels of distributed generation. European Transactions on Electrical Power, 2011, 21, 1869-1888. | 1.0 | 42 |
| 35 | Mitigating the impact of distributed generation on distribution network costs through advanced response options. , 2010, , . | | 4 |
| 36 | Assessing the impact of distributed generation on distribution network costs. , 2009, , . | | 9 |

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|----|--|-----|-----------|
| 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 | Elastic Guided Wave Propagation in Electrical Cables. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1423-1429. | 3.0 | 5 |
| 39 | Development of a current sensor based on active materials for high-voltage transmission systems. Smart Materials and Structures, 2006, 15, 563-570. | 3.5 | 5 |