

Pedro Carvalho

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

2,549
citations

279798

23
h-index

197818

49
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84
all docs

84
docs citations

84
times ranked

2225
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Reactive Power Generation Control for Voltage Rise Mitigation in Distribution Networks. IEEE Transactions on Power Systems, 2008, 23, 766-772.	6.5	505
2	Wind Integration in Power Systems: Operational Challenges and Possible Solutions. Proceedings of the IEEE, 2011, 99, 214-232.	21.3	320
3	Distributed Energy Resources Integration Challenges in Low-Voltage Networks: Voltage Control Limitations and Risk of Cascading. IEEE Transactions on Sustainable Energy, 2013, 4, 82-88.	8.8	149
4	A meta-regression analysis of benchmarking studies on water utilities market structure. Utilities Policy, 2012, 21, 40-49.	4.0	145
5	The influence of the operational environment on the efficiency of water utilities. Journal of Environmental Management, 2011, 92, 2698-2707.	7.8	117
6	Computing economies of vertical integration, economies of scope and economies of scale using partial frontier nonparametric methods. European Journal of Operational Research, 2014, 234, 292-307.	5.7	92
7	Assessing efficiency drivers in municipal solid waste collection services through a non-parametric method. Journal of Cleaner Production, 2017, 147, 431-441.	9.3	89
8	A Decomposition Approach to Optimal Remote Controlled Switch Allocation in Distribution Systems. IEEE Transactions on Power Delivery, 2005, 20, 1031-1036.	4.3	83
9	Distribution grid reconfiguration reduces power losses and helps integrate renewables. Energy Policy, 2012, 48, 260-273.	8.8	72
10	Clustering representative days for power systems generation expansion planning: Capturing the effects of variable renewables and energy storage. Applied Energy, 2019, 253, 113603.	10.1	65
11	Economies of size and density in municipal solid waste recycling in Portugal. Waste Management, 2014, 34, 12-20.	7.4	59
12	Optimal distribution network expansion planning under uncertainty by evolutionary decision convergence. International Journal of Electrical Power and Energy Systems, 1998, 20, 125-129.	5.5	50
13	Performance assessment of refuse collection services using robust efficiency measures. Resources, Conservation and Recycling, 2012, 67, 56-66.	10.8	46
14	PV Hosting Capacity Dependence on Harmonic Voltage Distortion in Low-Voltage Grids: Model Validation with Experimental Data. Energies, 2018, 11, 465.	3.1	41
15	Assessing and exploring (in)efficiency in Portuguese recycling systems using non-parametric methods. Resources, Conservation and Recycling, 2012, 67, 34-43.	10.8	39
16	Estimating size and scope economies in the Portuguese water sector using the Bayesian stochastic frontier analysis. Science of the Total Environment, 2016, 544, 574-586.	8.0	37
17	Distribution network expansion planning under uncertainty: a hedging algorithm in an evolutionary approach. IEEE Transactions on Power Delivery, 2000, 15, 412-416.	4.3	36
18	Disentangling the cost efficiency of jointly provided water and wastewater services. Utilities Policy, 2013, 24, 70-77.	4.0	35

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19	Optimization approach to dynamic restoration of distribution systems. International Journal of Electrical Power and Energy Systems, 2007, 29, 222-229.	5.5	34
20	On spanning-tree recombination in evolutionary large-scale network problems - application to electrical distribution planning. IEEE Transactions on Evolutionary Computation, 2001, 5, 623-630.	10.0	29
21	Can a wind farm with CAES survive in the day-ahead market?. Energy Policy, 2012, 48, 584-593.	8.8	27
22	Estimating Size and Scope Economies in the Portuguese Water Sector Using the Most Appropriate Functional Form. Engineering Economist, 2015, 60, 109-137.	1.1	25
23	Is bigger better? An empirical analysis of waste management in New South Wales. Waste Management, 2015, 39, 277-286.	7.4	25
24	The most efficient clusters of Brazilian water companies. Water Policy, 2015, 17, 902-917.	1.5	24
25	Reinforcement Scheduling Convergence in Power Systems Transmission Planning. IEEE Transactions on Power Systems, 2005, 20, 1151-1157.	6.5	19
26	Robust full-waveform inversion using q-statistics. Physica A: Statistical Mechanics and Its Applications, 2020, 548, 124473.	2.6	19
27	Long-term uncertainties in generation expansion planning: Implications for electricity market modelling and policy. Energy, 2021, 227, 120371.	8.8	19
28	Estimating the efficiency of Portuguese hospitals using an appropriate production technology. International Transactions in Operational Research, 2013, 20, 233-249.	2.7	18
29	Renewable energy support policy evaluation: The role of long-term uncertainty in market modelling. Applied Energy, 2020, 278, 115643.	10.1	18
30	Towards self-healing in distribution networks operation: Bipartite graph modelling for automated switching. Electric Power Systems Research, 2011, 81, 51-56.	3.6	17
31	Urban Distribution Network Investment Criteria for Reliability Adequacy. IEEE Transactions on Power Systems, 2004, 19, 1216-1222.	6.5	16
32	Distribution Quality of Service and Reliability Optimal Design: Individual Standards and Regulation Effectiveness. IEEE Transactions on Power Systems, 2005, 20, 2086-2092.	6.5	16
33	Full-waveform inversion based on Kaniadakis statistics. Physical Review E, 2020, 101, 053311.	2.1	16
34	An effective method for modeling wind power forecast uncertainty. Energy Systems, 2013, 4, 393-417.	3.0	15
35	What day-ahead reserves are needed in electric grids with high levels of wind power?. Environmental Research Letters, 2013, 8, 034013.	5.2	15
36	Hydro-wind Optimal Operation for Joint Bidding in Day-ahead Market: Storage Efficiency and Impact of Wind Forecasting Uncertainty. Journal of Modern Power Systems and Clean Energy, 2020, 8, 142-149.	5.4	15

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37	Distributional costs of wind energy production in Portugal under the liberalized Iberian market regime. <i>Energy Policy</i> , 2018, 113, 500-512.	8.8	13
38	Computing Economies of Scope Using Robust Partial Frontier Nonparametric Methods. <i>Water (Switzerland)</i> , 2016, 8, 82.	2.7	12
39	Building Stochastic Non-Stationary Daily Load/Generation Profiles for Distribution Planning Studies. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 911-920.	6.5	12
40	The influence of the operational environment on efficiency of international airports. <i>Journal of Advanced Transportation</i> , 2015, 49, 511-522.	1.7	11
41	Using non-parametric technologies to estimate returns to scale in the Iberian and international seaports. <i>International Journal of Shipping and Transport Logistics</i> , 2012, 4, 286.	0.5	10
42	Dynamic Restoration of Large-Scale Distribution Network Contingencies: Crew Dispatch Assessment. , 2007, , .		9
43	Willingness to pay for the water supply service in Cape Verde – how far can it go?. <i>Water Science and Technology: Water Supply</i> , 2016, 16, 1721-1734.	2.1	9
44	Emergency reconfiguration and distribution system planning under the Single-Contingency Policy. , 2012, , .		8
45	Dynamic monitoring and decision systems (DYMONDS) framework for reliable and efficient congestion management in smart distribution grids. , 2013, , .		8
46	Improving PV Resilience by Dynamic Reconfiguration in Distribution Grids: Problem Complexity and Computation Requirements. <i>Energies</i> , 2021, 14, 830.	3.1	8
47	Full waveform inversion based on the non-parametric estimate of the probability distribution of the residuals. <i>Geophysical Journal International</i> , 2021, 229, 35-55.	2.4	8
48	Mitigation of Interruption Reimbursements by Periodic Network Reconfiguration: Risk-Based Versus Expected-Value Optimization. <i>IEEE Transactions on Power Systems</i> , 2007, 22, 845-850.	6.5	7
49	Power plant multistage investment under market uncertainty. <i>IET Generation, Transmission and Distribution</i> , 2008, 2, 149.	2.5	7
50	Self-supply and regulated tariffs: Dynamic equilibria between photovoltaic market evolution and rate structures to ensure network sustainability. <i>Utilities Policy</i> , 2018, 50, 111-123.	4.0	7
51	Combined Effects of Load Variability and Phase Imbalance Onto Simulated LV Losses. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 7031-7041.	6.5	7
52	Impact of PV distributed generation on EDP distribution LV grid losses. <i>CIREN - Open Access Proceedings Journal</i> , 2017, 2017, 2342-2345.	0.1	6
53	Optimal Meter Placement in Low Observability Distribution Networks with DER. <i>Electric Power Systems Research</i> , 2020, 189, 106707.	3.6	6
54	Solving Ill-Conditioned State-Estimation Problems in Distribution Grids With Hidden-Markov Models of Load Dynamics. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 284-292.	6.5	5

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55	Acessibilidade e capacidade para pagar pelos serviços de água e de esgotamento sanitário em Portugal. Engenharia Sanitaria E Ambiental, 2010, 15, 325-336.	0.5	4
56	Single-Phase Generation Headroom in Low-Voltage Distribution Networks Under Reduced Circuit Characterization. IEEE Transactions on Power Systems, 2015, 30, 1006-1011.	6.5	4
57	Ultimate limits to the fully decentralized power inverter control in distribution grids. , 2016, , .		4
58	Large-Scale Network Optimization with Evolutionary Hybrid Algorithms: Ten Years' Experience with the Electric Power Distribution Industry. Adaptation, Learning, and Optimization, 2010, , 325-343.	0.6	4
59	On the robust application of loop optimization: heuristics in distribution operations planning. IEEE Transactions on Power Systems, 2002, 17, 1245-1249.	6.5	3
60	Multi-objective distribution planning approach for optimal network investment with EV charging control. , 2015, , .		3
61	Intrinsic limitations of load-shifting response dynamics: preliminary results from particle hopping models of homogeneous density incompressible loads. IET Renewable Power Generation, 2019, 13, 1190-1196.	3.1	3
62	Incentive-based load shifting dynamics and aggregators response predictability. Electric Power Systems Research, 2020, 189, 106744.	3.6	3
63	The impact of electric vehicles' market expansion on wholesale electricity price – The case of Lithuania. Case Studies on Transport Policy, 2021, 9, 477-487.	2.5	3
64	Voltage distortion in large-scale MV and HV distribution networks: harmonic analysis and simulation. , 2009, , .		2
65	Improving Transformers' Utilization Under Single Contingency Policy and Customer Reliability Requirements. IEEE Transactions on Smart Grid, 2013, 4, 2384-2391.	9.0	2
66	An adaptive meshless parameterization for full waveform inversion. Engineering Analysis With Boundary Elements, 2017, 83, 113-122.	3.7	2
67	Need for zero sequence voltage protection in MV networks with high levels of distributed generation. CIRED - Open Access Proceedings Journal, 2017, 2017, 1313-1316.	0.1	2
68	Wind energy production variations in continental Portugal: an analysis of the combined effects of spot market price and feed-in tariff costs. CIRED - Open Access Proceedings Journal, 2017, 2017, 2952-2955.	0.1	2
69	DPlan: a case study on the cooperation between university and industry. , 0, , .		1
70	Probabilistic assessment of the safety, security and efficiency of large-scale LV networks. , 2009, , .		1
71	A method to visualize interaction of distributed generation and feeders' voltage profiles. , 2013, , .		1
72	Factors influencing voltage profiles of distributed-generation-integrated feeders. , 2013, , .		1

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73	Optimising the water sector market structure in Portugal. Journal of Water Supply: Research and Technology - AQUA, 2014, 63, 303-310.	1.4	1
74	Improved demand controllability by grid reconfiguration for congestion management. , 2014, , .		1
75	Predictive management of low-voltage grids. CIRED - Open Access Proceedings Journal, 2017, 2017, 1935-1939.	0.1	1
76	Optimal Planning of Grid Reinforcement with Demand Response Control. Power Systems, 2018, , 253-278.	0.5	1
77	Order Independent Switching Operations in Radially Operated Networks. , 2007, , .		0
78	EDP methodology and practice on developed techniques to attenuate voltage distortion in MV distribution networks. , 2011, , .		0
79	Improving transformer's utilization under customer reliability requirements. , 2013, , .		0
80	Towards autonomous reconfiguration in distribution networks: An approach based on finite state automaton models. , 2017, , .		0
81	Effects of High Resolution Load Modelling Onto Simulated LV Distribution Losses. IEEE Transactions on Power Systems, 2021, 36, 1537-1545.	6.5	0
82	From Hierarchical Control to Flexible Interactive Electricity Services: A Path to Decarbonization. International Journal of Circuits, Systems and Signal Processing, 2021, 15, 1558-1570.	0.3	0
83	Risk assessment in distribution network investment evaluation: experience with VAR methodology. , 2009, , .		0
84	Re-power a distribution network with a rapidly changing level of demand through simulation technology. , 2009, , .		0