

Pedro Carvalho

List of Publications by Year in descending order

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84
papers

2,549
citations

279798

23
h-index

197818

49
g-index

84
all docs

84
docs citations

84
times ranked

2225
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of High Resolution Load Modelling Onto Simulated LV Distribution Losses. IEEE Transactions on Power Systems, 2021, 36, 1537-1545.	6.5	0
2	Improving PV Resilience by Dynamic Reconfiguration in Distribution Grids: Problem Complexity and Computation Requirements. Energies, 2021, 14, 830.	3.1	8
3	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
4	Long-term uncertainties in generation expansion planning: Implications for electricity market modelling and policy. Energy, 2021, 227, 120371.	8.8	19
5	Full waveform inversion based on the non-parametric estimate of the probability distribution of the residuals. Geophysical Journal International, 2021, 229, 35-55.	2.4	8
6	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
7	Solving Ill-Conditioned State-Estimation Problems in Distribution Grids With Hidden-Markov Models of Load Dynamics. IEEE Transactions on Power Systems, 2020, 35, 284-292.	6.5	5
8	Renewable energy support policy evaluation: The role of long-term uncertainty in market modelling. Applied Energy, 2020, 278, 115643.	10.1	18
9	Incentive-based load shifting dynamics and aggregators response predictability. Electric Power Systems Research, 2020, 189, 106744.	3.6	3
10	Optimal Meter Placement in Low Observability Distribution Networks with DER. Electric Power Systems Research, 2020, 189, 106707.	3.6	6
11	Full-waveform inversion based on Kaniadakis statistics. Physical Review E, 2020, 101, 053311.	2.1	16
12	Robust full-waveform inversion using q-statistics. Physica A: Statistical Mechanics and Its Applications, 2020, 548, 124473.	2.6	19
13	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
14	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
15	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
16	Optimal Planning of Grid Reinforcement with Demand Response Control. Power Systems, 2018, , 253-278.	0.5	1
17	Distributional costs of wind energy production in Portugal under the liberalized Iberian market regime. Energy Policy, 2018, 113, 500-512.	8.8	13
18	Building Stochastic Non-Stationary Daily Load/Generation Profiles for Distribution Planning Studies. IEEE Transactions on Power Systems, 2018, 33, 911-920.	6.5	12

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19	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
20	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
21	PV Hosting Capacity Dependence on Harmonic Voltage Distortion in Low-Voltage Grids: Model Validation with Experimental Data. <i>Energies</i> , 2018, 11, 465.	3.1	41
22	Assessing efficiency drivers in municipal solid waste collection services through a non-parametric method. <i>Journal of Cleaner Production</i> , 2017, 147, 431-441.	9.3	89
23	An adaptive meshless parameterization for full waveform inversion. <i>Engineering Analysis With Boundary Elements</i> , 2017, 83, 113-122.	3.7	2
24	Towards autonomous reconfiguration in distribution networks: An approach based on finite state automaton models. , 2017, , .		0
25	Need for zero sequence voltage protection in MV networks with high levels of distributed generation. <i>CIREC - Open Access Proceedings Journal</i> , 2017, 2017, 1313-1316.	0.1	2
26	Wind energy production variations in continental Portugal: an analysis of the combined effects of spot market price and feed-in tariff costs. <i>CIREC - Open Access Proceedings Journal</i> , 2017, 2017, 2952-2955.	0.1	2
27	Predictive management of low-voltage grids. <i>CIREC - Open Access Proceedings Journal</i> , 2017, 2017, 1935-1939.	0.1	1
28	Impact of PV distributed generation on EDP distribution LV grid losses. <i>CIREC - Open Access Proceedings Journal</i> , 2017, 2017, 2342-2345.	0.1	6
29	Computing Economies of Scope Using Robust Partial Frontier Nonparametric Methods. <i>Water (Switzerland)</i> , 2016, 8, 82.	2.7	12
30	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
31	Ultimate limits to the fully decentralized power inverter control in distribution grids. , 2016, , .		4
32	Estimating size and scope economies in the Portuguese water sector using the Bayesian stochastic frontier analysis. <i>Science of the Total Environment</i> , 2016, 544, 574-586.	8.0	37
33	The most efficient clusters of Brazilian water companies. <i>Water Policy</i> , 2015, 17, 902-917.	1.5	24
34	Multi-objective distribution planning approach for optimal network investment with EV charging control. , 2015, , .		3
35	Single-Phase Generation Headroom in Low-Voltage Distribution Networks Under Reduced Circuit Characterization. <i>IEEE Transactions on Power Systems</i> , 2015, 30, 1006-1011.	6.5	4
36	Estimating Size and Scope Economies in the Portuguese Water Sector Using the Most Appropriate Functional Form. <i>Engineering Economist</i> , 2015, 60, 109-137.	1.1	25

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37	Is bigger better? An empirical analysis of waste management in New South Wales. Waste Management, 2015, 39, 277-286.	7.4	25
38	The influence of the operational environment on efficiency of international airports. Journal of Advanced Transportation, 2015, 49, 511-522.	1.7	11
39	Optimising the water sector market structure in Portugal. Journal of Water Supply: Research and Technology - AQUA, 2014, 63, 303-310.	1.4	1
40	Improved demand controllability by grid reconfiguration for congestion management. , 2014, , .		1
41	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
42	Economies of size and density in municipal solid waste recycling in Portugal. Waste Management, 2014, 34, 12-20.	7.4	59
43	An effective method for modeling wind power forecast uncertainty. Energy Systems, 2013, 4, 393-417.	3.0	15
44	Improving Transformers' Utilization Under Single Contingency Policy and Customer Reliability Requirements. IEEE Transactions on Smart Grid, 2013, 4, 2384-2391.	9.0	2
45	Dynamic monitoring and decision systems (DYMONDS) framework for reliable and efficient congestion management in smart distribution grids. , 2013, , .		8
46	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
47	Disentangling the cost efficiency of jointly provided water and wastewater services. Utilities Policy, 2013, 24, 70-77.	4.0	35
48	Estimating the efficiency of Portuguese hospitals using an appropriate production technology. International Transactions in Operational Research, 2013, 20, 233-249.	2.7	18
49	Improving transformer's utilization under customer reliability requirements. , 2013, , .		0
50	A method to visualize interaction of distributed generation and feeders' voltage profiles. , 2013, , .		1
51	Factors influencing voltage profiles of distributed-generation-integrated feeders. , 2013, , .		1
52	What day-ahead reserves are needed in electric grids with high levels of wind power?. Environmental Research Letters, 2013, 8, 034013.	5.2	15
53	Using non-parametric technologies to estimate returns to scale in the Iberian and international seaports. International Journal of Shipping and Transport Logistics, 2012, 4, 286.	0.5	10
54	Distribution grid reconfiguration reduces power losses and helps integrate renewables. Energy Policy, 2012, 48, 260-273.	8.8	72

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55	Can a wind farm with CAES survive in the day-ahead market?. Energy Policy, 2012, 48, 584-593.	8.8	27
56	Assessing and exploring (in)efficiency in Portuguese recycling systems using non-parametric methods. Resources, Conservation and Recycling, 2012, 67, 34-43.	10.8	39
57	Performance assessment of refuse collection services using robust efficiency measures. Resources, Conservation and Recycling, 2012, 67, 56-66.	10.8	46
58	Emergency reconfiguration and distribution system planning under the Single-Contingency Policy. , 2012, , .		8
59	A meta-regression analysis of benchmarking studies on water utilities market structure. Utilities Policy, 2012, 21, 40-49.	4.0	145
60	The influence of the operational environment on the efficiency of water utilities. Journal of Environmental Management, 2011, 92, 2698-2707.	7.8	117
61	Wind Integration in Power Systems: Operational Challenges and Possible Solutions. Proceedings of the IEEE, 2011, 99, 214-232.	21.3	320
62	Towards self-healing in distribution networks operation: Bipartite graph modelling for automated switching. Electric Power Systems Research, 2011, 81, 51-56.	3.6	17
63	EDP methodology and practice on developed techniques to attenuate voltage distortion in MV distribution networks. , 2011, , .		0
64	Acessibilidade e capacidade para pagar pelos serviÃos de Ãgua e de esgotamento sanitÃrio em Portugal. Engenharia Sanitaria E Ambiental, 2010, 15, 325-336.	0.5	4
65	Large-Scale Network Optimization with Evolutionary Hybrid Algorithms: Ten Yearsâ€™ Experience with the Electric Power Distribution Industry. Adaptation, Learning, and Optimization, 2010, , 325-343.	0.6	4
66	Voltage distortion in large-scale MV and HV distribution networks: harmonic analysis and simulation. , 2009, , .		2
67	Probabilistic assessment of the safety, security and efficiency of large-scale LV networks. , 2009, , .		1
68	Risk assessment in distribution network investment evaluation: experience with VAR methodology. , 2009, , .		0
69	Re-power a distribution network with a rapidly changing level of demand through simulation technology. , 2009, , .		0
70	Distributed Reactive Power Generation Control for Voltage Rise Mitigation in Distribution Networks. IEEE Transactions on Power Systems, 2008, 23, 766-772.	6.5	505
71	Power plant multistage investment under market uncertainty. IET Generation, Transmission and Distribution, 2008, 2, 149.	2.5	7
72	Dynamic Restoration of Large-Scale Distribution Network Contingencies: Crew Dispatch Assessment. , 2007, , .		9

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73	Mitigation of Interruption Reimbursements by Periodic Network Reconfiguration: Risk-Based Versus Expected-Value Optimization. IEEE Transactions on Power Systems, 2007, 22, 845-850.	6.5	7
74	Order Independent Switching Operations in Radially Operated Networks. , 2007, , .		0
75	Optimization approach to dynamic restoration of distribution systems. International Journal of Electrical Power and Energy Systems, 2007, 29, 222-229.	5.5	34
76	Reinforcement Scheduling Convergence in Power Systems Transmission Planning. IEEE Transactions on Power Systems, 2005, 20, 1151-1157.	6.5	19
77	A Decomposition Approach to Optimal Remote Controlled Switch Allocation in Distribution Systems. IEEE Transactions on Power Delivery, 2005, 20, 1031-1036.	4.3	83
78	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
79	Urban Distribution Network Investment Criteria for Reliability Adequacy. IEEE Transactions on Power Systems, 2004, 19, 1216-1222.	6.5	16
80	On the robust application of loop optimization: heuristics in distribution operations planning. IEEE Transactions on Power Systems, 2002, 17, 1245-1249.	6.5	3
81	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
82	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
83	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
84	DPlan: a case study on the cooperation between university and industry. , 0, , .		1