

Álvaro Lorca

List of Publications by Year in descending order

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31
papers

1,385
citations

516710

16
h-index

526287

27
g-index

31
all docs

31
docs citations

31
times ranked

1455
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive Robust Optimization With Dynamic Uncertainty Sets for Multi-Period Economic Dispatch Under Significant Wind. IEEE Transactions on Power Systems, 2015, 30, 1702-1713.	6.5	300
2	Multistage Adaptive Robust Optimization for the Unit Commitment Problem. Operations Research, 2016, 64, 32-51.	1.9	191
3	Multistage Robust Unit Commitment With Dynamic Uncertainty Sets and Energy Storage. IEEE Transactions on Power Systems, 2017, 32, 1678-1688.	6.5	175
4	A comprehensive review on expansion planning: Models and tools for energy policy analysis. Renewable and Sustainable Energy Reviews, 2018, 98, 346-360.	16.4	108
5	An Adaptive Robust Optimization Model for Power Systems Planning With Operational Uncertainty. IEEE Transactions on Power Systems, 2019, 34, 4606-4616.	6.5	61
6	Robust unit commitment with dispatchable wind power. Electric Power Systems Research, 2018, 155, 58-66.	3.6	51
7	Review and assessment of energy policy developments in Chile. Energy Policy, 2019, 127, 87-101.	8.8	51
8	The Adaptive Robust Multi-Period Alternating Current Optimal Power Flow Problem. IEEE Transactions on Power Systems, 2018, 33, 1993-2003.	6.5	50
9	Humanitarian Logistics. , 0, , 18-49.		48
10	An Optimization-Based Decision-Support Tool for Post-Disaster Debris Operations. Production and Operations Management, 2017, 26, 1076-1091.	3.8	45
11	Power portfolio optimization considering locational electricity prices and risk management. Electric Power Systems Research, 2014, 109, 80-89.	3.6	35
12	The impact of concentrated solar power in electric power systems: A Chilean case study. Applied Energy, 2019, 235, 258-283.	10.1	33
13	Optimization-based analysis of decarbonization pathways and flexibility requirements in highly renewable power systems. Energy, 2021, 234, 121242.	8.8	31
14	Comparison of energy scenario alternatives for Chile: Towards low-carbon energy transition by 2030. Energy, 2020, 206, 118021.	8.8	28
15	A Decision-support Tool for Post-disaster Debris Operations. Procedia Engineering, 2015, 107, 154-167.	1.2	27
16	An Efficient Forecasting-Optimization Scheme for the Intraday Unit Commitment Process Under Significant Wind and Solar Power. IEEE Transactions on Sustainable Energy, 2018, 9, 1899-1909.	8.8	27
17	Expansion planning under uncertainty for hydrothermal systems with variable resources. International Journal of Electrical Power and Energy Systems, 2018, 103, 644-651.	5.5	25
18	An Energy Management System With Short-Term Fluctuation Reserves and Battery Degradation for Isolated Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 4668-4680.	9.0	16

#	ARTICLE	IF	CITATIONS
19	Comparison between Concentrated Solar Power and Gas-Based Generation in Terms of Economic and Flexibility-Related Aspects in Chile. <i>Energies</i> , 2021, 14, 1063.	3.1	13
20	A low-complexity decision model for home energy management systems. <i>Applied Energy</i> , 2021, 294, 116985.	10.1	12
21	A robust decision-support method based on optimization and simulation for wildfire resilience in highly renewable power systems. <i>European Journal of Operational Research</i> , 2021, 294, 723-733.	5.7	12
22	The value of aggregators in local electricity markets: A game theory based comparative analysis. <i>Sustainable Energy, Grids and Networks</i> , 2021, 27, 100498.	3.9	9
23	Robust Optimization in Electric Power Systems Operations. <i>Power Electronics and Power Systems</i> , 2017, , 227-258.	0.6	7
24	Management of EV charging stations under advance reservations schemes in electricity markets. <i>Sustainable Energy, Grids and Networks</i> , 2020, 24, 100388.	3.9	6
25	Adaptive robust optimization for daily power system operation. , 2014, , .		5
26	Firewood heat electrification impacts in the Chilean power system. <i>Energy Policy</i> , 2020, 144, 111702.	8.8	5
27	Flexible load management using flexibility bands. <i>Applied Energy</i> , 2022, 317, 119077.	10.1	5
28	Challenges in the Management of Hydroelectric Generation in Power System Operations. <i>Current Sustainable/Renewable Energy Reports</i> , 2020, 7, 94-99.	2.6	4
29	Multi-stage process for chemotherapy scheduling and effective capacity determination. <i>International Transactions in Operational Research</i> , 0, , .	2.7	4
30	Robust streamflow forecasting: a Student's t-mixture vector autoregressive model. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 3979-3995.	4.0	1
31	The Potential of Agent-Based Simulation for Assessing the Bilateral-Nodal Debate. , 2018, , .		0