Ramteen Sioshansi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3084736/publications.pdf

Version: 2024-02-01

90	5,904	66234	76769
papers	citations	42 h-index	74 g-index

91	91	91	4418
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Stochastic-Dynamic-Optimization Approach to Estimating the Capacity Value of Energy Storage. IEEE Transactions on Power Systems, 2022, 37, 1809-1819.	4.6	7
2	Energy-Storage Modeling: State-of-the-Art and Future Research Directions. IEEE Transactions on Power Systems, 2022, 37, 860-875.	4.6	37
3	Guest Editorial: Enhancing hosting capability for renewable energy generation in active distribution networks. IET Renewable Power Generation, 2022, 16, 651-654.	1.7	1
4	Energy Storage Participation in Wholesale Markets: The Impact of State-of-Energy Management. IEEE Open Access Journal of Power and Energy, 2022, 9, 173-182.	2.5	6
5	Benefits of Stochastic Optimization for Scheduling Energy Storage in Wholesale Electricity Markets. Journal of Modern Power Systems and Clean Energy, 2021, 9, 181-189.	3.3	2
6	Benefits of Strategically Sizing Wind-Integrated Energy Storage and Transmission. IEEE Transactions on Power Systems, 2021, 36, 1141-1151.	4.6	26
7	The value of CO2-Bulk energy storage with wind in transmission-constrained electric power systems. Energy Conversion and Management, 2021, 228, 113548.	4.4	9
8	How Climate-Related Policy Affects the Economics of Electricity Generation. Current Sustainable/Renewable Energy Reports, 2021, 8, 17-30.	1.2	5
9	The rise of electric vehiclesâ€"2020 status and future expectations. Progress in Energy, 2021, 3, 022002.	4.6	132
10	The Effect of Natural Gas Prices on Power System Reliability. Current Sustainable/Renewable Energy Reports, 2021, 8, 164-173.	1.2	2
11	Do Renewables Drive Coal-Fired Generation Out of Electricity Markets?. Current Sustainable/Renewable Energy Reports, 2021, 8, 222-232.	1.2	2
12	Paid to produce absolutely nothing? A Nash-Cournot analysis of a proposed power purchase agreement. Energy Policy, 2021, 156, 112371.	4.2	6
13	Data-Driven Modeling of Operating Characteristics of Hydroelectric Generating Units. Current Sustainable/Renewable Energy Reports, 2021, 8, 199.	1.2	1
14	Using Concentrating-Solar-Power Plants as Economic Carbon-Free Capacity Resources. Energy Conversion and Management: X, 2021, 12, 100112.	0.9	0
15	Equilibria in investment and spot electricity markets: A conjectural-variations approach. European Journal of Operational Research, 2020, 281, 129-140.	3.5	13
16	Operational Equilibria of Electric and Natural Gas Systems With Limited Information Interchange. IEEE Transactions on Power Systems, 2020, 35, 662-671.	4.6	35
17	Equilibria in Electricity and Natural Gas Markets With Strategic Offers and Bids. IEEE Transactions on Power Systems, 2020, 35, 1956-1966.	4.6	43
18	Bilevel Robust Optimization of Electric Vehicle Charging Stations With Distributed Energy Resources. IEEE Transactions on Industry Applications, 2020, 56, 5836-5847.	3.3	65

#	Article	IF	Citations
19	The price is right? How pricing and incentive mechanisms in California incentivize building distributed hybrid solar and energy-storage systems. Energy Policy, 2020, 138, 111242.	4.2	20
20	Investment Equilibria Involving Gas-Fired Power Units in Electricity and Gas Markets. IEEE Transactions on Power Systems, 2020, 35, 2736-2747.	4.6	18
21	A two-stage stochastic optimization planning framework to decarbonize deeply electric power systems. Energy Economics, 2019, 84, 104457.	5.6	29
22	The role of energy storage in deep decarbonization of electricity production. Nature Communications, 2019, 10, 3413.	5.8	154
23	Evaluating a concentrating solar power plant as an extended-duration peaking resource. Solar Energy, 2019, 191, 686-696.	2.9	7
24	Unit Commitment With an Enhanced Natural Gas-Flow Model. IEEE Transactions on Power Systems, 2019, 34, 3729-3738.	4.6	76
25	Shadow Price-Based Co-Ordination of Natural Gas and Electric Power Systems. IEEE Transactions on Power Systems, 2019, 34, 1942-1954.	4.6	42
26	A stochastic operational model for controlling electric vehicle charging to provide frequency regulation. Transportation Research, Part D: Transport and Environment, 2019, 67, 475-490.	3.2	15
27	Electricity Market: A Conversation on Future Designs [Guest Editorial]. IEEE Power and Energy Magazine, 2019, 17, 18-19.	1.6	2
28	Merchant Storage Investment in a Restructured Electricity Industry. Energy Journal, 2019, 40, 129-164.	0.9	26
29	The role of energy storage in mitigating ramping inefficiencies caused by variable renewable generation. Energy Conversion and Management, 2018, 162, 307-320.	4.4	46
30	Hierarchical Clustering to Find Representative Operating Periods for Capacity-Expansion Modeling. IEEE Transactions on Power Systems, 2018, 33, 3029-3039.	4.6	85
31	A vector autoregression weather model for electricity supply and demand modeling. Journal of Modern Power Systems and Clean Energy, 2018, 6, 763-776.	3.3	42
32	Rethinking restructured electricity market design: Lessons learned and future needs. International Journal of Electrical Power and Energy Systems, 2018, 98, 520-530.	3.3	68
33	Multistage Stochastic Investment Planning With Multiscale Representation of Uncertainties and Decisions. IEEE Transactions on Power Systems, 2018, 33, 781-791.	4.6	89
34	Coordinated Expansion Planning of Natural Gas and Electric Power Systems. IEEE Transactions on Power Systems, 2018, 33, 3064-3075.	4.6	107
35	Market equilibria and interactions between strategic generation, wind, and storage. Applied Energy, 2018, 220, 876-892.	5.1	55
36	Using Electrical Energy Storage to Mitigate Natural Gas-Supply Shortages. IEEE Transactions on Power Systems, 2018, 33, 7076-7086.	4.6	37

#	Article	IF	Citations
37	Spatial effects on hybrid electric vehicle adoption. Transportation Research, Part D: Transport and Environment, 2017, 52, 85-97.	3.2	38
38	A stochastic flow-capturing model to optimize the location of fast-charging stations with uncertain electric vehicle flows. Transportation Research, Part D: Transport and Environment, 2017, 53, 354-376.	3.2	133
39	Data Challenges in Estimating the Capacity Value of Solar Photovoltaics. IEEE Journal of Photovoltaics, 2017, 7, 1065-1073.	1.5	24
40	A two-stage stochastic optimization model for scheduling electric vehicle charging loads to relieve distribution-system constraints. Transportation Research Part B: Methodological, 2017, 102, 55-82.	2.8	71
41	Adaptive convex relaxations for Gas Pipeline Network Optimization. , 2017, , .		2
42	Using Storage-Capacity Rights to Overcome the Cost-Recovery Hurdle for Energy Storage. IEEE Transactions on Power Systems, 2017, 32, 2028-2040.	4.6	24
43	Unit Commitment Under Gas-Supply Uncertainty and Gas-Price Variability. IEEE Transactions on Power Systems, 2017, 32, 2394-2405.	4.6	109
44	Wind-integration benefits of controlled plug-in electric vehicle charging. Journal of Modern Power Systems and Clean Energy, 2017, 5, 746-756.	3.3	18
45	A dynamic programming model of energy storage and transformer deployments to relieve distribution constraints. Computational Management Science, 2016, 13, 119-146.	0.8	27
46	Retail electricity tariff and mechanism design to incentivize distributed renewable generation. Energy Policy, 2016, 95, 498-508.	4.2	43
47	Optimized Offers for Cascaded Hydroelectric Generators in a Market With Centralized Dispatch. IEEE Transactions on Power Systems, 2015, 30, 773-783.	4.6	20
48	A Dynamic Programming Approach to Estimate the Capacity Value of Energy Storage. IEEE Transactions on Power Systems, 2014, 29, 395-403.	4.6	117
49	A stochastic dynamic programming model for co-optimization of distributed energy storage. Energy Systems, 2014, 5, 475-505.	1.8	101
50	User-Steered Energy Generation and Consumption Multimodel Simulation for Pricing and Policy Development. Computing in Science and Engineering, 2014, 16, 22-33.	1.2	4
51	When energy storage reduces social welfare. Energy Economics, 2014, 41, 106-116.	5.6	80
52	Using Price-Based Signals to Control Plug-in Electric Vehicle Fleet Charging. IEEE Transactions on Smart Grid, 2014, 5, 1451-1464.	6.2	100
53	Pricing in centrally committed electricity markets. Utilities Policy, 2014, 31, 143-145.	2.1	10
54	Simulation of an electric transportation system at The Ohio State University. Applied Energy, 2014, 113, 1686-1691.	5.1	72

#	Article	IF	Citations
55	The Role of Plug-In Electric Vehicles with Renewable Resources in Electricity Systems. Revue D'Economie Industrielle, 2014, , 291-316.	0.4	9
56	Measuring the Benefits of Delayed Price-Responsive Demand in Reducing Wind-Uncertainty Costs. IEEE Transactions on Power Systems, 2013, 28, 4118-4126.	4.6	25
57	Comparing Capacity Value Estimation Techniques for Photovoltaic Solar Power. IEEE Journal of Photovoltaics, 2013, 3, 407-415.	1.5	66
58	Using Demand Response to Improve the Emission Benefits of Wind. IEEE Transactions on Power Systems, 2013, 28, 1385-1394.	4.6	40
59	Benefits of Colocating Concentrating Solar Power and Wind. IEEE Transactions on Sustainable Energy, 2013, 4, 877-885.	5.9	79
60	Estimating the Capacity Value of Concentrating Solar Power Plants With Thermal Energy Storage: A Case Study of the Southwestern United States. IEEE Transactions on Power Systems, 2013, 28, 1205-1215.	4.6	89
61	A highly resolved modeling technique to simulate residential power demand. Applied Energy, 2013, 107, 465-473.	5.1	179
62	Simulationâ€“optimization model for location of a public electric vehicle charging infrastructure. Transportation Research, Part D: Transport and Environment, 2013, 22, 60-69.	3.2	234
63	The impacts of stochastic programming and demand response on wind integration. Energy Systems, 2013, 4, 109-124.	1.8	44
64	Energy consumption of residential HVAC systems: A simple physically-based model. , 2012, , .		22
65	The capacity value of solar generation in the Western United States. , 2012, , .		5
66	Estimating the Capacity Value of Concentrating Solar Power Plants: A Case Study of the Southwestern United States. IEEE Transactions on Power Systems, 2012, 27, 1116-1124.	4.6	65
67	Modeling short-run electricity demand with long-term growth rates and consumer price elasticity in commercial and industrial sectors. Energy, 2012, 46, 533-540.	4.5	36
68	OR Forumâ€"Modeling the Impacts of Electricity Tariffs on Plug-In Hybrid Electric Vehicle Charging, Costs, and Emissions. Operations Research, 2012, 60, 506-516.	1.2	98
69	How Thermal Energy Storage Enhances the Economic Viability of Concentrating Solar Power. Proceedings of the IEEE, 2012, 100, 335-347.	16.4	115
70	Do Centrally Committed Electricity Markets Provide Useful Price Signals?. Energy Journal, 2012, 33, 96-118.	0.9	5
71	Market and Policy Barriers to Deployment of Energy Storage. Economics of Energy and Environmental Policy, 2012, 1, .	0.7	83
72	Emissions Impacts of Wind and Energy Storage in a Market Environment. Environmental Science & Technology, 2011, 45, 10728-10735.	4.6	17

#	Article	IF	Citations
73	The value of compressed air energy storage in energy and reserve markets. Energy, 2011, 36, 4959-4973.	4.5	204
74	Plug-in hybrid electric vehicles can be clean and economical in dirty power systems. Energy Policy, 2011, 39, 6151-6161.	4.2	45
75	Towards equilibrium offers in unit commitment auctions with nonconvex costs. Journal of Regulatory Economics, 2011, 40, 41-61.	0.8	16
76	A comparative analysis of the value of pure and hybrid electricity storage. Energy Economics, 2011, 33, 56-66.	5.6	63
77	Increasing the Value of Wind with Energy Storage. Energy Journal, 2011, 32, 1-30.	0.9	73
78	Market protocols in ERCOT and their effect on wind generation. Energy Policy, 2010, 38, 3192-3197.	4.2	34
79	The Value of Concentrating Solar Power and Thermal Energy Storage. IEEE Transactions on Sustainable Energy, 2010, 1, 173-183.	5.9	233
80	Three-part auctions versus self-commitment in day-ahead electricity markets. Utilities Policy, 2010, 18, 165-173.	2.1	34
81	Cost and emissions impacts of plug-in hybrid vehicles on the Ohio power system. Energy Policy, 2010, 38, 6703-6712.	4.2	117
82	Evaluating the Impacts of Real-Time Pricing on the Cost and Value of Wind Generation. IEEE Transactions on Power Systems, 2010, 25, 741-748.	4.6	126
83	Welfare Impacts of Electricity Storage and the Implications of Ownership Structure. Energy Journal, 2010, 31, 173-198.	0.9	99
84	The Value of Plug-In Hybrid Electric Vehicles as Grid Resources. Energy Journal, 2010, 31, 1-24.	0.9	134
85	Estimating the value of electricity storage in PJM: Arbitrage and some welfare effects. Energy Economics, 2009, 31, 269-277.	5.6	406
86	The value of compressed air energy storage with wind in transmission-constrained electric power systems. Energy Policy, 2009, 37, 3149-3158.	4.2	253
87	Evaluating the Impacts of Real-Time Pricing on the Usage of Wind Generation. IEEE Transactions on Power Systems, 2009, 24, 516-524.	4.6	169
88	Emissions Impacts and Benefits of Plug-In Hybrid Electric Vehicles and Vehicle-to-Grid Services. Environmental Science & Technology, 2009, 43, 1199-1204.	4.6	217
89	Economic Consequences of Alternative Solution Methods for Centralized Unit Commitment in Day-Ahead Electricity Markets. IEEE Transactions on Power Systems, 2008, 23, 344-352.	4.6	87
90	How good are supply function equilibrium models: an empirical analysis of the ERCOT balancing market. Journal of Regulatory Economics, 2007, 31, 1-35.	0.8	75