

Audun Botterud

List of Publications by Year in descending order

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29
papers

2,092
citations

304743

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552781

26
g-index

30
all docs

30
docs citations

30
times ranked

2139
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-Storage Modeling: State-of-the-Art and Future Research Directions. IEEE Transactions on Power Systems, 2022, 37, 860-875.	6.5	37
2	Stabilizing Energy Communities Through Energy Pricing or PV Expansion. IEEE Transactions on Smart Grid, 2022, 13, 728-737.	9.0	11
3	Decarbonization of the Indian electricity sector: Technology choices and policy trade-offs. IScience, 2022, 25, 104017.	4.1	9
4	Resource Adequacy in Electricity Markets With Renewable Energy. IEEE Transactions on Power Systems, 2020, 35, 773-781.	6.5	32
5	On An Equivalent Representation of the Dynamics in District Heating Networks for Combined Electricity-Heat Operation. IEEE Transactions on Power Systems, 2020, 35, 560-570.	6.5	95
6	Additional Capacity Value From Synergy of Variable Renewable Energy and Energy Storage. IEEE Transactions on Sustainable Energy, 2020, 11, 1106-1109.	8.8	71
7	A Cost-Sharing Approach for Decentralized Electricity-Heat Operation With Renewables. IEEE Transactions on Sustainable Energy, 2020, 11, 1838-1847.	8.8	16
8	Power system decarbonization: Impacts of energy storage duration and interannual renewables variability. Renewable Energy, 2020, 156, 1171-1185.	8.9	58
9	Probabilistic Zonal Reserve Requirements for Improved Energy Management and Deliverability With Wind Power Uncertainty. IEEE Transactions on Power Systems, 2020, 35, 4324-4334.	6.5	18
10	Sharing Solar PV and Energy Storage in Apartment Buildings: Resource Allocation and Pricing. IEEE Transactions on Smart Grid, 2019, 10, 3963-3973.	9.0	93
11	The long-term impacts of carbon and variable renewable energy policies on electricity markets. Energy Policy, 2019, 131, 53-71.	8.8	50
12	Temporal Decomposition for Improved Unit Commitment in Power System Production Cost Modeling. IEEE Transactions on Power Systems, 2018, 33, 5276-5287.	6.5	32
13	Improving Deployment Availability of Energy Storage With Data-Driven AGC Signal Models. IEEE Transactions on Power Systems, 2018, 33, 4207-4217.	6.5	39
14	Energy Storage Arbitrage Under Day-Ahead and Real-Time Price Uncertainty. IEEE Transactions on Power Systems, 2018, 33, 84-93.	6.5	160
15	Optimal Wind Power Uncertainty Intervals for Electricity Market Operation. IEEE Transactions on Sustainable Energy, 2018, 9, 199-210.	8.8	49
16	Impact of battery degradation on energy arbitrage revenue of grid-level energy storage. Journal of Energy Storage, 2017, 10, 56-66.	8.1	97
17	Enhanced representations of lithium-ion batteries in power systems models and their effect on the valuation of energy arbitrage applications. Journal of Power Sources, 2017, 342, 279-291.	7.8	50
18	Fuzzy Energy and Reserve Co-optimization With High Penetration of Renewable Energy. IEEE Transactions on Sustainable Energy, 2017, 8, 782-791.	8.8	34

#	ARTICLE	IF	CITATIONS
19	The value of energy storage in decarbonizing the electricity sector. Applied Energy, 2016, 175, 368-379.	10.1	307
20	Flexible operation of batteries in power system scheduling with renewable energy. , 2016, , .		1
21	Stochastic coordinated operation of wind and battery energy storage system considering battery degradation. Journal of Modern Power Systems and Clean Energy, 2016, 4, 581-592.	5.4	80
22	Flexible Operation of Batteries in Power System Scheduling With Renewable Energy. IEEE Transactions on Sustainable Energy, 2016, 7, 685-696.	8.8	179
23	An Improved Stochastic Unit Commitment Formulation to Accommodate Wind Uncertainty. IEEE Transactions on Power Systems, 2016, 31, 2507-2517.	6.5	65
24	Temporal versus stochastic granularity in thermal generation capacity planning with wind power. , 2015, , .		1
25	Dynamic Scheduling of Operating Reserves in Co-Optimized Electricity Markets With Wind Power. IEEE Transactions on Power Systems, 2014, 29, 160-171.	6.5	74
26	Demand Dispatch and Probabilistic Wind Power Forecasting in Unit Commitment and Economic Dispatch: A Case Study of Illinois. IEEE Transactions on Sustainable Energy, 2013, 4, 250-261.	8.8	127
27	Assessment of Impacts of PHEV Charging Patterns on Wind-Thermal Scheduling by Stochastic Unit Commitment. IEEE Transactions on Smart Grid, 2012, 3, 675-683.	9.0	140
28	Time Adaptive Conditional Kernel Density Estimation for Wind Power Forecasting. IEEE Transactions on Sustainable Energy, 2012, 3, 660-669.	8.8	135
29	Decision Analysis and Uncertainties in Planning Local Energy Systems. , 2006, , .		6