

Kyri Baker

List of Publications by Year in descending order

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42
papers

1,294
citations

687363

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888059

17
g-index

44
all docs

44
docs citations

44
times ranked

1342
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning-Accelerated ADMM for Distributed DC Optimal Power Flow. , 2022, 6, 1-6.		17
2	An optimization framework for the network design of advanced district thermal energy systems. Energy Conversion and Management, 2022, 266, 115839.	9.2	10
3	OPF-Learn: An Open-Source Framework for Creating Representative AC Optimal Power Flow Datasets. , 2022, , .		2
4	Dymola-Enabled Reinforcement Learning for Real-time Generator Set-point Optimization. , 2022, , .		0
5	Consumer privacy protection using flexible thermal loads: Theoretical limits and practical considerations. Applied Energy, 2021, 281, 116075.	10.1	7
6	Sensitivity Analysis of Photovoltaic System Design Parameters to Passively Mitigate Ramp Rates. IEEE Journal of Photovoltaics, 2021, 11, 545-551.	2.5	3
7	Enforcing Policy Feasibility Constraints through Differentiable Projection for Energy Optimization. , 2021, , .		13
8	Optimal Sizing of an Energy Storage Portfolio Considering Multiple Timescales. , 2021, , .		1
9	Evaluation of low-exergy heating and cooling systems and topology optimization for deep energy savings at the urban district level. Energy Conversion and Management, 2020, 222, 113106.	9.2	37
10	Assessments of data centers for provision of frequency regulation. Applied Energy, 2020, 277, 115621.	10.1	19
11	Optimal Renewable Resource Allocation and Load Scheduling of Resilient Communities. Energies, 2020, 13, 5683.	3.1	16
12	Convex Relaxation of Grid-Connected Energy Storage System Models With Complementarity Constraints in DC OPF. IEEE Transactions on Smart Grid, 2020, 11, 4070-4079.	9.0	25
13	A Coordination Mechanism For Reducing Price Spikes in Distribution Grids. Energies, 2020, 13, 2500.	3.1	1
14	Learning Optimal Solutions for Extremely Fast AC Optimal Power Flow. , 2020, , .		56
15	Joint Chance Constraints in AC Optimal Power Flow: Improving Bounds Through Learning. IEEE Transactions on Smart Grid, 2019, 10, 6376-6385.	9.0	47
16	The Role of Demand-Side Flexibility in Hedging Electricity Price Volatility in Distribution Grids. , 2019, , .		2
17	Learning Warm-Start Points For Ac Optimal Power Flow. , 2019, , .		37
18	Data-Based Distributionally Robust Stochastic Optimal Power Flowâ€™Part II: Case Studies. IEEE Transactions on Power Systems, 2019, 34, 1493-1503.	6.5	38

#	ARTICLE	IF	CITATIONS
19	Data-Based Distributionally Robust Stochastic Optimal Power Flow—Part I: Methodologies. IEEE Transactions on Power Systems, 2019, 34, 1483-1492.	6.5	85
20	Network-Cognizant Voltage Droop Control for Distribution Grids. IEEE Transactions on Power Systems, 2018, 33, 2098-2108.	6.5	94
21	Stochastic Model Predictive Control for Demand Response in a Home Energy Management System. , 2018, , .		24
22	MAFSA: Mars Autonomous and Foldable Solar Array. New Space, 2018, 6, 308-319.	0.8	0
23	JOINT CHANCE CONSTRAINTS REDUCTION THROUGH LEARNING IN ACTIVE DISTRIBUTION NETWORKS. , 2018, , .		6
24	Stochastic Optimal Power Flow Based on Data-Driven Distributionally Robust Optimization. , 2018, , .		13
25	Chance-Constrained AC Optimal Power Flow for Distribution Systems With Renewables. IEEE Transactions on Power Systems, 2017, 32, 3427-3438.	6.5	121
26	Efficient relaxations for joint chance constrained AC optimal power flow. Electric Power Systems Research, 2017, 148, 230-236.	3.6	35
27	Modeling stationary lithium-ion batteries for optimization and predictive control. , 2017, , .		30
28	Foresee: A user-centric home energy management system for energy efficiency and demand response. Applied Energy, 2017, 205, 1583-1595.	10.1	140
29	User-preference-driven model predictive control of residential building loads and battery storage for demand response. , 2017, , .		14
30	Incentive-based voltage regulation in distribution networks. , 2017, , .		7
31	Energy Storage Sizing Taking Into Account Forecast Uncertainties and Receding Horizon Operation. IEEE Transactions on Sustainable Energy, 2017, 8, 331-340.	8.8	151
32	Network-cognizant design of decentralized Volt/VAR controllers. , 2017, , .		4
33	Distribution-agnostic stochastic optimal power flow for distribution grids. , 2016, , .		21
34	Frequency Regulation Services from Connected Residential Devices. , 2016, , .		6
35	Optimal power flow for distribution systems under uncertain forecasts. , 2016, , .		5
36	Locational sensitivity investigation on PV hosting capacity and fast track PV screening. , 2016, , .		14

#	ARTICLE	IF	CITATIONS
37	Distributed MPC for Efficient Coordination of Storage and Renewable Energy Sources Across Control Areas. IEEE Transactions on Smart Grid, 2016, 7, 992-1001.	9.0	71
38	Optimal storage sizing using two-stage stochastic optimization for intra-hourly dispatch. , 2014, , .		18
39	Jacobian singularities in optimal power flow problems caused by intertemporal constraints. , 2013, , .		4
40	Inclusion of inter-temporal constraints into a distributed Newton-Raphson method. , 2012, , .		6
41	Optimal integration of intermittent energy sources using distributed multi-step optimization. , 2012, , .		17
42	Incorporating thermoelectric power plant water use into multi-objective optimal power flow. Environmental Research: Infrastructure and Sustainability, 0, , .	2.3	1