Philipp Heer

List of Publications by Year
in descending order

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19 papers	294 citations	1040056 9 h-index	940533 16 g-index
23 all docs	23 docs citations	23 times ranked	240 citing authors

#	Article	IF	Citations
1	Experimental demonstration of data predictive control for energy optimization and thermal comfort in buildings. Energy and Buildings, 2020, 211, 109792.	6.7	62
2	Benchmarking cooling and heating energy demands considering climate change, population growth and cooling device uptake. Applied Energy, 2021, 288, 116636.	10.1	52
3	Predictive energy management of residential buildings while self-reporting flexibility envelope. Applied Energy, 2021, 288, 116653.	10.1	36
4	Physics-informed linear regression is competitive with two Machine Learning methods in residential building MPC. Applied Energy, 2022, 310, 118491.	10.1	31
5	Improved day ahead heating demand forecasting by online correction methods. Energy and Buildings, 2020, 211, 109821.	6.7	28
6	Data-driven control of room temperature and bidirectional EV charging using deep reinforcement learning: Simulations and experiments. Applied Energy, 2022, 307, 118127.	10.1	18
7	Controller Tuning by Bayesian Optimization An Application to a Heat Pump. , 2019, , .		15
8	NEST â€“ una plataforma para acelerar la innovaciÃ³n en edificios. Informes De La Construccion, 2017, 69, 222.	0.3	12
9	Robust MPC with data-driven demand forecasting for frequency regulation with heat pumps. Control Engineering Practice, 2022, 122, 105101.	5.5	10
10	The Potential of Vehicle-to-Grid to Support the Energy Transition: A Case Study on Switzerland. Energies, 2021, 14, 4812.	3.1	9
11	Frequency regulation with heat pumps using robust MPC with affine policies. IFAC-PapersOnLine, 2020, 53, 13210-13215.	0.9	6
12	Sensitivity analysis of data-driven building energy demand forecasts. Journal of Physics: Conference Series, 2019, 1343, 012062.	0.4	4
13	Deep Reinforcement Learning for room temperature control: a black-box pipeline from data to policies. Journal of Physics: Conference Series, 2021, 2042, 012004.	0.4	4
14	Machine learning-based modeling and controller tuning of a heat pump. Journal of Physics: Conference Series, 2019, 1343, 012065.	0.4	3
15	Benchmarking of data predictive control in a real-life apartment during heating season. Journal of Physics: Conference Series, 2021, 2042, 012024.	0.4	2
16	Multi-objective optimization of a power-to-hydrogen system for mobility via two-stage stochastic programming. Journal of Physics: Conference Series, 2021, 2042, 012034.	0.4	1
17	Experimental implementation of a context-aware prosumer. Journal of Physics: Conference Series, 2021, 2042, 012068.	0.4	1
18	Characterization of heat-pump, PV and battery demonstrator technologies using a coherent energy assessment. Journal of Physics: Conference Series, 2019, 1343, 012105.	0.4	0

#	Article	IF	Citations
19	Experiment strategy for evaluating advanced building energy management system. Journal of Physics: Conference Series, 2021, 2042, 012030.	0.4	0