Philipp Heer

List of Publications by Year
in descending order

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

#	ARTICLE	IF	CITATIONS
1	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
2	Physics-informed linear regression is competitive with two Machine Learning methods in residential building MPC. Applied Energy, 2022, 310, 118491.	10.1	31
3	Robust MPC with data-driven demand forecasting for frequency regulation with heat pumps. Control Engineering Practice, 2022, 122, 105101.	5.5	10
4	Benchmarking cooling and heating energy demands considering climate change, population growth and cooling device uptake. Applied Energy, 2021, 288, 116636.	10.1	52
5	Predictive energy management of residential buildings while self-reporting flexibility envelope. Applied Energy, 2021, 288, 116653.	10.1	36
6	The Potential of Vehicle-to-Grid to Support the Energy Transition: A Case Study on Switzerland. Energies, 2021, 14, 4812.	3.1	9
7	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
8	Benchmarking of data predictive control in a real-life apartment during heating season. Journal of Physics: Conference Series, 2021, 2042, 012024.	0.4	2
9	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
10	Experimental implementation of a context-aware prosumer. Journal of Physics: Conference Series, 2021, 2042, 012068.	0.4	1
11	Experiment strategy for evaluating advanced building energy management system. Journal of Physics: Conference Series, 2021, 2042, 012030.	0.4	0
12	Improved day ahead heating demand forecasting by online correction methods. Energy and Buildings, 2020, 211, 109821.	6.7	28
13	Experimental demonstration of data predictive control for energy optimization and thermal comfort in buildings. Energy and Buildings, 2020, 211, 109792.	6.7	62
14	Frequency regulation with heat pumps using robust MPC with affine policies. IFAC-PapersOnLine, 2020, 53, 13210-13215.	0.9	6
15	Controller Tuning by Bayesian Optimization An Application to a Heat Pump. , 2019, , .		15
16	Machine learning-based modeling and controller tuning of a heat pump. Journal of Physics: Conference Series, 2019, 1343, 012065.	0.4	3
17	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
18	Sensitivity analysis of data-driven building energy demand forecasts. Journal of Physics: Conference Series, 2019, 1343, 012062.	0.4	4

#	Article	IF	Citations
19	NEST â€" una plataforma para acelerar la innovaciÃ³n en edificios. Informes De La Construccion, 2017, 69, 222.	0.3	12