

David H Blum

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9643593/publications.pdf>

Version: 2024-02-01

12
papers

635
citations

840585

11
h-index

1199470

12
g-index

12
all docs

12
docs citations

12
times ranked

400
citing authors

#	ARTICLE	IF	CITATIONS
1	All you need to know about model predictive control for buildings. Annual Reviews in Control, 2020, 50, 190-232.	4.4	340
2	Field demonstration and implementation analysis of model predictive control in an office HVAC system. Applied Energy, 2022, 318, 119104.	5.1	51
3	Building optimization testing framework (BOPTTEST) for simulation-based benchmarking of control strategies in buildings. Journal of Building Performance Simulation, 2021, 14, 586-610.	1.0	48
4	Technologies and Magnitude of Ancillary Services Provided by Commercial Buildings. Proceedings of the IEEE, 2016, 104, 758-779.	16.4	34
5	Opportunity Cost Quantification for Ancillary Services Provided by Heating, Ventilating, and Air-Conditioning Systems. IEEE Transactions on Smart Grid, 2017, 8, 1264-1273.	6.2	28
6	Model predictive control for demand flexibility: Real-world operation of a commercial building with photovoltaic and battery systems. Advances in Applied Energy, 2022, 7, 100099.	6.6	27
7	A three-year dataset supporting research on building energy management and occupancy analytics. Scientific Data, 2022, 9, 156.	2.4	23
8	Site demonstration and performance evaluation of MPC for a large chiller plant with TES for renewable energy integration and grid decarbonization. Applied Energy, 2022, 321, 119343.	5.1	23
9	Dynamic simulation and analysis of ancillary service demand response strategies for variable air volume HVAC systems. HVAC and R Research, 2014, 20, 908-921.	0.9	22
10	A novel multi-market optimization problem for commercial heating, ventilation, and air-conditioning systems providing ancillary services using multi-zone inverse comprehensive room transfer functions. Science and Technology for the Built Environment, 2016, 22, 783-797.	0.8	20
11	Estimating ASHRAE Guideline 36 energy savings for multi-zone variable air volume systems using Spawn of EnergyPlus. Journal of Building Performance Simulation, 2022, 15, 215-236.	1.0	16
12	A new dual-collimation batch reactor for determination of ultraviolet inactivation rate constants for microorganisms in aqueous suspensions. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 674-680.	1.7	3