David H Blum

List of Publications by Year
in descending order

12	635	840585	1199470
papers	citations	11	12
		h-index	g-index

12	12	12	400
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	A three-year dataset supporting research on building energy management and occupancy analytics. Scientific Data, 2022, 9, 156.	2.4	23
3	Field demonstration and implementation analysis of model predictive control in an office HVAC system. Applied Energy, 2022, 318, 119104.	5.1	51
4	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
5	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
6	Building optimization testing framework (BOPTEST) for simulation-based benchmarking of control strategies in buildings. Journal of Building Performance Simulation, 2021, 14, 586-610.	1.0	48
7	All you need to know about model predictive control for buildings. Annual Reviews in Control, 2020, 50, 190-232.	4.4	340
8	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
9	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
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	Technologies and Magnitude of Ancillary Services Provided by Commercial Buildings. Proceedings of the IEEE, 2016, 104, 758-779.	16.4	34
12	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