Mohammad Heidarinejad

List of Publications by Citations

39 papers	2,139 citations	21 h-index	41 g-index
41 ext. papers	3,206 ext. citations	7.4 avg, IF	5.99 L-index

#	Paper	IF	Citations
39	Equilibrium optimizer: A novel optimization algorithm. *Knowledge-Based Systems*, **2020**, 191, 105190	7.3	514
38	Marine Predators Algorithm: A nature-inspired metaheuristic. *Expert Systems With Applications*, **2020**, 152, 113377	7.8	472
37	A radiative cooling structural material. *Science*, **2019**, 364, 760-763	33.3	419
36	The impact of exterior surface convective heat transfer coefficients on the building energy consumption in urban neighborhoods with different plan area densities. *Energy and Buildings*, **2015**, 86, 449-463	7	84
35	Building neighborhood emerging properties and their impacts on multi-scale modeling of building energy and airflows. *Building and Environment*, **2015**, 91, 246-262	6.5	58
34	Microbial Exchange via Fomites and Implications for Human Health. *Current Pollution Reports*, **2019**, 5, 198-213	7.6	56
33	Effect of urban neighborhoods on the performance of building cooling systems. *Building and Environment*, **2015**, 90, 15-29	6.5	56
32	Building energy model calibration with schedules derived from electricity use data. *Applied Energy*, **2017**, 190, 997-1007	10.7	45
31	Feasibility of using various kinds of cooling systems in a multi-climates country. *Energy and Buildings*, **2008**, 40, 1946-1953	7	38
30	Cluster analysis of simulated energy use for LEED certified U.S. office buildings. *Energy and Buildings*, **2014**, 85, 86-97	7	37
29	Architecting Smart City Digital Twins: Combined Semantic Model and Machine Learning Approach. *Journal of Management in Engineering - ASCE*, **2020**, 36, 04020026	5.3	33
28	Ventilation and laboratory confirmed acute respiratory infection (ARI) rates in college residence halls in College Park, Maryland. *Environment International*, **2020**, 137, 105537	12.9	30
27	Demonstration of reduced-order urban scale building energy models. *Energy and Buildings*, **2017**, 156, 17-28	7	30
26	Influence of building surface solar irradiance on environmental temperatures in urban neighborhoods. *Sustainable Cities and Society*, **2016**, 26, 186-202	10.1	24
25	Quantifying the impact of urban wind sheltering on the building energy consumption. *Applied Thermal Engineering*, **2017**, 116, 850-865	5.8	23
24	Personalized cooling as an energy efficiency technology for city energy footprint reduction. *Journal of Cleaner Production*, **2018**, 171, 491-505	10.3	23
23	An extensive comparison of modified zero-equation, standard k-◻and LES models in predicting urban airflow. *Sustainable Cities and Society*, **2018**, 40, 28-43	10.1	22

22	Actual building energy use patterns and their implications for predictive modeling. *Energy Conversion and Management*, **2017**, 144, 164-180	10.6	21
21	: An Open-Source Wireless Hardware and Software Platform for Building Energy and Indoor Environmental Monitoring and Control. *Sensors*, **2019**, 19,	3.8	21
20	Building energy retrofits under capital constraints and greenhouse gas pricing scenarios. *Energy and Buildings*, **2015**, 107, 407-416	7	21
19	An integrated data-driven framework for urban energy use modeling (UEUM). *Applied Energy*, **2019**, 253, 113550	10.7	21
18	An indirect validation of convective heat transfer coefficients (CHTCs) for external building surfaces in an actual urban environment. *Building Simulation*, **2015**, 8, 337-352	3.9	17
17	Impacts of building operational schedules and occupants on the lighting energy consumption patterns of an office space. *Building Simulation*, **2017**, 10, 447-458	3.9	15
16	Numerical Evaluation of the Local Weather Data Impacts on Cooling Energy Use of Buildings in an Urban Area. *Procedia Engineering*, **2015**, 121, 381-388		14
15	Quantifying Impacts of Urban Microclimate on a Building Energy Consumption–A Case Study. *Sustainability*, **2019**, 11, 4921	3.6	10
14	Evaluating a commercially available in-duct bipolar ionization device for pollutant removal and potential byproduct formation. *Building and Environment*, **2021**, 195, 107750	6.5	9
13	Optimal control of switchable ethylene-tetrafluoroethylene (ETFE) cushions for building façades. *Solar Energy*, **2021**, 218, 180-194	6.8	5
12	A Two-Dimensional Numerical Analysis for Thermal Performance of an Intermittently Operated Radiant Floor Heating System in a Transient External Climatic Condition. *Heat Transfer Engineering*, **2020**, 41, 825-839	1.7	4
11	Assessing ventilation control strategies in underground parking garages. *Building Simulation*, **2021**, 14, 701-720	3.9	4
10	Quantify Impacts of Local Urban Microclimate on Local Airflow Patterns. *Procedia Engineering*, **2017**, 205, 1983-1989		3
9	Predicting intraurban PM concentrations using enhanced machine learning approaches and incorporating human activity patterns. *Environmental Research*, **2021**, 196, 110423	7.9	3
8	Semantic Inference-Based Control Strategies for Building HVAC Systems Using Modelica-Based Physical Models. *Procedia Engineering*, **2017**, 205, 1975-1982		2
7	Studying airflow structures in periodic cylindrical hills of human tracheal cartilaginous rings. *Respiratory Physiology and Neurobiology*, **2019**, 266, 103-114	2.8	1
6	Evaluation of an in-duct bipolar ionization device on particulate matter and gas-phase constituents in a large test chamber. *Building and Environment*, **2022**, 213, 108858	6.5	1
5	Adequate indoor air quality in nursing homes: An unmet medical need. *Science of the Total Environment*, **2021**, 765, 144273	10.2	1

4	Experimental Evaluations of the Impact of an Additive Oxidizing Electronic Air Cleaner on Particles and Gases. *Pollutants*, **2022**, 2, 98-134		1
3	Development and evaluation of an automatic steam radiator control system for retrofitting legacy heating systems in existing buildings. *Energy and Buildings*, **2021**, 251, 111344	7	0
2	A Semantic Approach for Building System Operations: Knowledge Representation and Reasoning. *Sustainability*, **2022**, 14, 5810	3.6	0
1	Creating Geometry with Basic Shape Templates in OpenStudio. *Procedia Engineering*, **2017**, 205, 1990-1995		