

Mohammad Heidarinejad

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

4,485
citations

331642

21
h-index

289230

40
g-index

41
all docs

41
docs citations

41
times ranked

3519
citing authors

#	ARTICLE	IF	CITATIONS
1	Equilibrium optimizer: A novel optimization algorithm. Knowledge-Based Systems, 2020, 191, 105190.	7.1	1,262
2	Marine Predators Algorithm: A nature-inspired metaheuristic. Expert Systems With Applications, 2020, 152, 113377.	7.6	1,239
3	A radiative cooling structural material. Science, 2019, 364, 760-763.	12.6	856
4	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.	6.7	105
5	Microbial Exchange via Fomites and Implications for Human Health. Current Pollution Reports, 2019, 5, 198-213.	6.6	92
6	Architecting Smart City Digital Twins: Combined Semantic Model and Machine Learning Approach. Journal of Management in Engineering - ASCE, 2020, 36, .	4.8	92
7	Building neighborhood emerging properties and their impacts on multi-scale modeling of building energy and airflows. Building and Environment, 2015, 91, 246-262.	6.9	77
8	Effect of urban neighborhoods on the performance of building cooling systems. Building and Environment, 2015, 90, 15-29.	6.9	65
9	Building energy model calibration with schedules derived from electricity use data. Applied Energy, 2017, 190, 997-1007.	10.1	56
10	Ventilation and laboratory confirmed acute respiratory infection (ARI) rates in college residence halls in College Park, Maryland. Environment International, 2020, 137, 105537.	10.0	51
11	An integrated data-driven framework for urban energy use modeling (UEUM). Applied Energy, 2019, 253, 113550.	10.1	50
12	Feasibility of using various kinds of cooling systems in a multi-climates country. Energy and Buildings, 2008, 40, 1946-1953.	6.7	43
13	Cluster analysis of simulated energy use for LEED certified U.S. office buildings. Energy and Buildings, 2014, 85, 86-97.	6.7	43
14	Elemental: An Open-Source Wireless Hardware and Software Platform for Building Energy and Indoor Environmental Monitoring and Control. Sensors, 2019, 19, 4017.	3.8	38
15	Demonstration of reduced-order urban scale building energy models. Energy and Buildings, 2017, 156, 17-28.	6.7	37
16	An extensive comparison of modified zero-equation, standard $k-\hat{\mu}$, and LES models in predicting urban airflow. Sustainable Cities and Society, 2018, 40, 28-43.	10.4	37
17	Influence of building surface solar irradiance on environmental temperatures in urban neighborhoods. Sustainable Cities and Society, 2016, 26, 186-202.	10.4	36
18	Personalized cooling as an energy efficiency technology for city energy footprint reduction. Journal of Cleaner Production, 2018, 171, 491-505.	9.3	32

#	ARTICLE	IF	CITATIONS
19	Quantifying the impact of urban wind sheltering on the building energy consumption. Applied Thermal Engineering, 2017, 116, 850-865.	6.0	31
20	Actual building energy use patterns and their implications for predictive modeling. Energy Conversion and Management, 2017, 144, 164-180.	9.2	28
21	Evaluating a commercially available in-duct bipolar ionization device for pollutant removal and potential byproduct formation. Building and Environment, 2021, 195, 107750.	6.9	27
22	Building energy retrofits under capital constraints and greenhouse gas pricing scenarios. Energy and Buildings, 2015, 107, 407-416.	6.7	22
23	An indirect validation of convective heat transfer coefficients (CHTCs) for external building surfaces in an actual urban environment. Building Simulation, 2015, 8, 337-352.	5.6	20
24	Impacts of building operational schedules and occupants on the lighting energy consumption patterns of an office space. Building Simulation, 2017, 10, 447-458.	5.6	20
25	Quantifying Impacts of Urban Microclimate on a Building Energy Consumption—A Case Study. Sustainability, 2019, 11, 4921.	3.2	18
26	Numerical Evaluation of the Local Weather Data Impacts on Cooling Energy Use of Buildings in an Urban Area. Procedia Engineering, 2015, 121, 381-388.	1.2	16
27	Predicting intraurban PM2.5 concentrations using enhanced machine learning approaches and incorporating human activity patterns. Environmental Research, 2021, 196, 110423.	7.5	16
28	Adequate indoor air quality in nursing homes: An unmet medical need. Science of the Total Environment, 2021, 765, 144273.	8.0	12
29	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.	1.9	11
30	Assessing ventilation control strategies in underground parking garages. Building Simulation, 2021, 14, 701-720.	5.6	11
31	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.	6.9	8
32	Development and evaluation of an automatic steam radiator control system for retrofitting legacy heating systems in existing buildings. Energy and Buildings, 2021, 251, 111344.	6.7	7
33	Optimal control of switchable ethylene-tetrafluoroethylene (ETFE) cushions for building façades. Solar Energy, 2021, 218, 180-194.	6.1	6
34	A Semantic Approach for Building System Operations: Knowledge Representation and Reasoning. Sustainability, 2022, 14, 5810.	3.2	5
35	Studying airflow structures in periodic cylindrical hills of human tracheal cartilaginous rings. Respiratory Physiology and Neurobiology, 2019, 266, 103-114.	1.6	4
36	Experimental Evaluations of the Impact of an Additive Oxidizing Electronic Air Cleaner on Particles and Gases. Pollutants, 2022, 2, 98-134.	2.1	4

#	ARTICLE	IF	CITATIONS
37	Semantic Inference-Based Control Strategies for Building HVAC Systems Using Modelica-Based Physical Models. Procedia Engineering, 2017, 205, 1975-1982.	1.2	3
38	Quantify Impacts of Local Urban Microclimate on Local Airflow Patterns. Procedia Engineering, 2017, 205, 1983-1989.	1.2	3
39	Analysis of Hydronic Heating and Cooling Systems in Commercial Buildings Using CBECS Microdata. Journal of Architectural Engineering, 2022, 28, .	1.6	1
40	Creating Geometry with Basic Shape Templates in OpenStudio. Procedia Engineering, 2017, 205, 1990-1995.	1.2	0