

Parham A Mirzaei

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,693
citations

172457

29
h-index

182427

51
g-index

58
all docs

58
docs citations

58
times ranked

2349
citing authors

#	ARTICLE	IF	CITATIONS
1	CFD modeling of airborne pathogen transmission of COVID-19 in confined spaces under different ventilation strategies. <i>Sustainable Cities and Society</i> , 2022, 76, 103397.	10.4	64
2	Airborne and aerosol pathogen transmission modeling of respiratory events in buildings: An overview of computational fluid dynamics. <i>Sustainable Cities and Society</i> , 2022, 79, 103704.	10.4	25
3	CFD-CFD coupling: A novel method to develop a fast urban microclimate model. <i>Journal of Building Physics</i> , 2021, 44, 385-408.	2.4	7
4	Fast and dynamic urban neighbourhood energy simulation using CFDf-CFDc-BES coupling method. <i>Sustainable Cities and Society</i> , 2021, 66, 102545.	10.4	6
5	LES analysis of turbulent fluctuation in cross-ventilation flow in highly-dense urban areas. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2021, 209, 104494.	3.9	18
6	Virtual dynamic coupling of computational fluid dynamics-building energy simulation-artificial intelligence: Case study of urban neighbourhood effect on buildings' energy demand. <i>Building and Environment</i> , 2021, 195, 107728.	6.9	9
7	CFD modeling of micro and urban climates: Problems to be solved in the new decade. <i>Sustainable Cities and Society</i> , 2021, 69, 102839.	10.4	36
8	Integration of topological aspect of city terrains to predict the spatial distribution of urban heat island using GIS and ANN. <i>Sustainable Cities and Society</i> , 2021, 69, 102825.	10.4	27
9	A CFD Approach for Risk Assessment Based on Airborne Pathogen Transmission. <i>Atmosphere</i> , 2021, 12, 986.	2.3	6
10	Using Machine Learning Techniques to Predict Esthetic Features of Buildings. <i>Journal of Architectural Engineering</i> , 2021, 27, .	1.6	3
11	Tempo-spatial thermal comfort analysis of urban heat island with coupling of CFD and building energy simulation. <i>Energy and Buildings</i> , 2021, 251, 111317.	6.7	33
12	The Hot Climate of the Middle East. <i>Advances in 21st Century Human Settlements</i> , 2021, , 205-234.	0.4	4
13	A new regression model to predict BIPV cell temperature for various climates using a high-resolution CFD microclimate model. <i>Advances in Building Energy Research</i> , 2020, 14, 527-549.	2.3	5
14	Experimental and steady-RANS CFD modelling of cross-ventilation in moderately-dense urban areas. <i>Sustainable Cities and Society</i> , 2020, 52, 101849.	10.4	45
15	Experimental study on cross-ventilation of a generic building in highly-dense urban areas: Impact of planar area density and wind direction. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 196, 104030.	3.9	27
16	RANS model calibration using stochastic optimization for accuracy improvement of urban airflow CFD modeling. <i>Journal of Building Engineering</i> , 2020, 32, 101756.	3.4	11
17	CFD analysis of cross-ventilation flow in a group of generic buildings: Comparison between steady RANS, LES and wind tunnel experiments. <i>Building Simulation</i> , 2020, 13, 1353-1372.	5.6	37
18	Definition of a new morphological parameter to improve prediction of urban heat island. <i>Sustainable Cities and Society</i> , 2020, 56, 102021.	10.4	42

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19	A tempo-spatial modelling framework to assess outdoor thermal comfort of complex urban neighbourhoods. <i>Urban Climate</i> , 2020, 33, 100665.	5.7	28
20	Monitoring thermal field, humidity field and energy balance over heterogeneous surfaces in the typical valley-city. <i>Journal of Chinese Geography</i> , 2020, 30, 2015-2032.	3.9	3
21	On the relationship between building energy efficiency, aesthetic features and marketability: Toward a novel policy for energy demand reduction. <i>Energy Policy</i> , 2019, 128, 593-606.	8.8	21
22	Wind tunnel experiments on cross-ventilation flow of a generic sheltered building in urban areas. <i>Building and Environment</i> , 2019, 158, 60-72.	6.9	47
23	Optimization of a hybrid community district heating system integrated with thermal energy storage system. <i>Journal of Energy Storage</i> , 2019, 23, 128-137.	8.1	14
24	Urban heat island, urban climate maps and urban development policies and action plans. <i>Environmental Technology and Innovation</i> , 2019, 14, 100341.	6.1	63
25	Dynamic simulation of cross-ventilated buildings with night-flush cooling in neighbourhood environment using integrated CFD-CFD-BES strategy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 609, 072023.	0.6	1
26	A systematic methodology for energy modeling improvement of cross-ventilated buildings in dense urban areas. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 609, 072014.	0.6	1
27	Developing a framework for improvement of building thermal performance modeling under urban microclimate interactions. <i>Sustainable Cities and Society</i> , 2019, 44, 27-39.	10.4	30
28	Urban heat island effect of a typical valley city in China: Responds to the global warming and rapid urbanization. <i>Sustainable Cities and Society</i> , 2018, 38, 736-745.	10.4	80
29	Validation of a community district energy system model using field measured data. <i>Energy</i> , 2018, 144, 694-706.	8.8	6
30	Development of an adaptive discharge coefficient to improve the accuracy of cross-ventilation airflow calculation in building energy simulation tools. <i>Building and Environment</i> , 2018, 127, 277-290.	6.9	41
31	Improving the CFD modelling of cross-ventilation in highly-packed urban areas. <i>Sustainable Cities and Society</i> , 2018, 37, 451-465.	10.4	65
32	Modelling enhancement of cross-ventilation in sheltered buildings using stochastic optimization. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 758-772.	4.8	32
33	Development of a dynamic external CFD and BES coupling framework for application of urban neighbourhoods energy modelling. <i>Building and Environment</i> , 2018, 146, 37-49.	6.9	43
34	An open-source simulation platform to support the formulation of housing stock decarbonisation strategies. <i>Energy and Buildings</i> , 2018, 172, 459-477.	6.7	12
35	Simplified model to predict the thermal demand profile of districts. <i>Energy and Buildings</i> , 2017, 145, 213-225.	6.7	27
36	Prediction of the surface temperature of building-integrated photovoltaics: Development of a high accuracy correlation using computational fluid dynamics. <i>Solar Energy</i> , 2017, 147, 151-163.	6.1	29

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37	Improvement of k-epsilon turbulence model for CFD simulation of atmospheric boundary layer around a high-rise building using stochastic optimization and Monte Carlo Sampling technique. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 171, 366-379.	3.9	73
38	A review and critique of UK housing stock energy models, modelling approaches and data sources. Energy and Buildings, 2017, 151, 66-80.	6.7	42
39	Wind-driven ventilation improvement with plan typology alteration: A CFD case study of traditional Turkish architecture. Building Simulation, 2017, 10, 239-254.	5.6	21
40	Development of a fish leaping framework for low-head barriers. Journal of Hydro-Environment Research, 2017, 14, 34-43.	2.2	7
41	A Review of District Heating Systems: Modeling and Optimization. Frontiers in Built Environment, 2016, 2, .	2.3	55
42	Integration of storage and renewable energy into district heating systems: A review of modelling and optimization. Solar Energy, 2016, 136, 49-64.	6.1	180
43	Validation of a Climatic CFD Model to Predict the Surface Temperature of Building Integrated Photovoltaics. Energy Procedia, 2015, 78, 1865-1870.	1.8	7
44	Influence of the underneath cavity on buoyant-forced cooling of the integrated photovoltaic panels in building roof: a thermography study. Progress in Photovoltaics: Research and Applications, 2015, 23, 19-29.	8.1	28
45	Recent challenges in modeling of urban heat island. Sustainable Cities and Society, 2015, 19, 200-206.	10.4	312
46	Urban neighborhood characteristics influence on a building indoor environment. Sustainable Cities and Society, 2015, 19, 403-413.	10.4	36
47	Investigation of the role of cavity airflow on the performance of building-integrated photovoltaic panels. Solar Energy, 2014, 107, 510-522.	6.1	34
48	Indoor thermal condition in urban heat island: Comparison of the artificial neural network and regression methods prediction. Energy and Buildings, 2014, 76, 597-604.	6.7	76
49	Dynamical computational fluid dynamics modeling of the stochastic wind for application of urban studies. Building and Environment, 2013, 70, 161-170.	6.9	38
50	Toward design and fabrication of wind-driven vehicles: Procedure to optimize the threshold of driving forces. Applied Mathematical Modelling, 2013, 37, 50-61.	4.2	22
51	Modeling of phase change materials for applications in whole building simulation. Renewable and Sustainable Energy Reviews, 2012, 16, 5355-5362.	16.4	61
52	A procedure to quantify the impact of mitigation techniques on the urban ventilation. Building and Environment, 2012, 47, 410-420.	6.9	50
53	Indoor thermal condition in urban heat Island " Development of a predictive tool. Building and Environment, 2012, 57, 7-17.	6.9	52
54	Impact of non-uniform urban surface temperature on pollution dispersion in urban areas. Building Simulation, 2011, 4, 227-244.	5.6	27

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55	Pollution removal effectiveness of the pedestrian ventilation system. Journal of Wind Engineering and Industrial Aerodynamics, 2011, 99, 46-58.	3.9	38
56	Approaches to study Urban Heat Island " Abilities and limitations. Building and Environment, 2010, 45, 2192-2201.	6.9	533
57	A novel approach to enhance outdoor air quality: Pedestrian ventilation system. Building and Environment, 2010, 45, 1582-1593.	6.9	51
58	A novel mathematical model to measure individuals'™ perception of the symmetry level of building facades. Architectural Engineering and Design Management, 0, , 1-18.	1.7	2