Jiying Liu

List of Publications by Year in descending order

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56 papers	1,134 citations	430874 18 h-index	414414 32 g-index
57 all docs	57 docs citations	57 times ranked	1022 citing authors

#	Article	IF	Citations
1	Numerical analysis of cooling potential and indoor thermal comfort with a novel hybrid radiant cooling system in hot and humid climates. Indoor and Built Environment, 2022, 31, 929-943.	2.8	14
2	Experimental study on control strategies of radiant floor cooling system with direct-ground cooling source and displacement ventilation system: A case study in an office building. Energy, 2022, 239, 122410.	8.8	28
3	Comparison of exposure to traffic-related pollutants on different commuting routes to a primary school in Jinan, China. Environmental Science and Pollution Research, 2022, 29, 43319-43340.	5.3	4
4	A review of human thermal plume and its influence on the inhalation exposure to particulate matter. Indoor and Built Environment, 2022, 31, 1758-1774.	2.8	12
5	Experimental and Numerical Study of an Active Solar Heating System with Soil Heat Storage for Greenhouses in Cold Climate Zones. Buildings, 2022, 12, 405.	3.1	2
6	Experimental Study on Operating Characteristic of a Combined Radiant Floor and Fan Coil Cooling System in a High Humidity Environment. Buildings, 2022, 12, 499.	3.1	11
7	Developing a collaborative control strategy of a combined radiant floor cooling and ventilation system: A PMV-based model. Journal of Building Engineering, 2022, 54, 104648.	3.4	6
8	Prediction and correlation analysis of ventilation performance in a residential building using artificial neural network models based on data-driven analysis. Sustainable Cities and Society, 2022, 83, 103981.	10.4	14
9	Dynamic prediction of the pre-dehumidification of a radiant floor cooling and displacement ventilation system based on computational fluid dynamics and a back-propagation neural network: A case study of an office room. Indoor and Built Environment, 2022, 31, 2386-2410.	2.8	8
10	Experimental study on the dynamic thermal response of a radiant floor system in an office building. E3S Web of Conferences, 2021, 246, 10003.	0.5	2
11	Optimal Design Strategy of a Solar Reflector Combining Photovoltaic Panels to Improve Electricity Output: A Case Study in Calgary, Canada. Sustainability, 2021, 13, 6115.	3.2	11
12	A review of the effect of traffic-related air pollution around schools on student health and its mitigation. Journal of Transport and Health, 2021, 23, 101249.	2.2	20
13	Experimental Investigation on Thermal Comfort of COVID-19 Nucleic Acid Sampling Staff in Hot and Humid Environment: A Pilot Study of University Students. Applied Sciences (Switzerland), 2021, 11, 11492.	2.5	4
14	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
15	Thermal Degradation Characteristics of Rapeseed Biodiesel And Its Blends With Petroleum Diesel. Heat Transfer Engineering, 2020, 41, 896-904.	1.9	3
16	A comparison of the thermal comfort performances of a radiation floor cooling system when combined with a range of ventilation systems. Indoor and Built Environment, 2020, 29, 527-542.	2.8	34
17	Impacts of vehicle emission from a major road on spatiotemporal variations of neighborhood particulate pollutionâ€"A case study in a university campus. Sustainable Cities and Society, 2020, 53, 101917.	10.4	16
18	Experimental study on indoor environment quality in a naturally ventilated classroom of a university using natural ventilation and ventilation fan. E3S Web of Conferences, 2020, 165, 04082.	0.5	0

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19	A Review of CFD Analysis Methods for Personalized Ventilation (PV) in Indoor Built Environments. Sustainability, 2019, 11, 4166.	3.2	51
20	Quantifying Impacts of Urban Microclimate on a Building Energy Consumptionâ€"A Case Study. Sustainability, 2019, 11, 4921.	3.2	18
21	The influence of groundwater seepage on the performance of ground source heat pump system with energy pile. Applied Thermal Engineering, 2019, 162, 114217.	6.0	30
22	The Effect of Tree-Planting Patterns on the Microclimate within a Courtyard. Sustainability, 2019, 11, 1665.	3.2	19
23	Performance analysis of a ductless personalized ventilation combined with radiant floor cooling system and displacement ventilation. Building Simulation, 2019, 12, 905-919.	5.6	43
24	Numerical evaluation of a Ductless Personalized Ventilation (DPV) combined with a radiant HVAC system: thermal comfort. IOP Conference Series: Materials Science and Engineering, 2019, 609, 042031.	0.6	1
25	Simulation and control of radiant floor cooling systems: intermittent operation and weather-forecast-based predictive controls. IOP Conference Series: Materials Science and Engineering, 2019, 609, 062006.	0.6	2
26	Energy analysis of a hybrid radiant cooling system under hot and humid climates: A case study at Shanghai in China. Building and Environment, 2018, 137, 208-214.	6.9	54
27	An extensive comparison of modified zero-equation, standard k-Îµ, and LES models in predicting urban airflow. Sustainable Cities and Society, 2018, 40, 28-43.	10.4	37
28	The numerical analysis of outdoor wind and thermal environment in a residential area in Liaocheng, China. IOP Conference Series: Earth and Environmental Science, 2018, 121, 052054.	0.3	1
29	Quantifying the impact of urban wind sheltering on the building energy consumption. Applied Thermal Engineering, 2017, 116, 850-865.	6.0	31
30	Numerical Study of Outdoor Thermal Environment in a University Campus in Summer. Procedia Engineering, 2017, 205, 4052-4059.	1.2	5
31	Experimental study on heating characteristics and control strategies of ground source heat pump and radiant floor heating system in an office building. Procedia Engineering, 2017, 205, 4060-4066.	1.2	19
32	Energy-saving analysis of ground source heat pump combined with floor radiant air conditioning system. Procedia Engineering, 2017, 205, 4067-4073.	1.2	3
33	Quantify Impacts of Local Urban Microclimate on Local Airflow Patterns. Procedia Engineering, 2017, 205, 1983-1989.	1.2	3
34	Experiment Study on the Thermal Comfort inside a Car Passenger Compartment. Procedia Engineering, 2017, 205, 3607-3614.	1.2	19
35	Investigation on the Energy Status and Heating in Rural Areas of Shandong Province, China. Procedia Engineering, 2017, 205, 1446-1453.	1.2	2
36	Operation Analysis of a Compound Air Conditioning System using Measurement and Simulation. Procedia Engineering, 2017, 205, 1454-1460.	1.2	2

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37	Preliminary Analysis on the Different Heating Technologies in a Rural Area of Shandong Province, China. Procedia Engineering, 2017, 205, 1461-1468.	1.2	3
38	Simulated study on the potential of building energy saving using the green roof. Procedia Engineering, 2017, 205, 1469-1476.	1.2	9
39	Influence of building surface solar irradiance on environmental temperatures in urban neighborhoods. Sustainable Cities and Society, 2016, 26, 186-202.	10.4	36
40	Numerical Evaluation of the Indoor Environment in a Room with Capillary Radiation Air Conditioning System. Procedia Engineering, 2016, 146, 567-572.	1.2	4
41	An Applied Research on the Compound Air Conditioning System of Ground Source Direct Cooling System and Water Storage Tank System. Procedia Engineering, 2016, 146, 559-566.	1.2	4
42	A case study of ground source direct cooling system integrated with water storage tank system. Building Simulation, 2016, 9, 659-668.	5.6	20
43	Numerical Evaluation of the Impact of Green Wall on the Outdoor Thermal Environment. , 2016, , .		1
44	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
45	A Numerical Study of the Indoor Thermal Environment in an Air-Conditioned Large Space Building. , 2015, , .		3
46	Advanced computational modeling for in vitro nanomaterial dosimetry. Particle and Fibre Toxicology, 2015, 12, 32.	6.2	131
47	Analysis of Thermodynamic Equilibrium Characteristics of City Hot Water Heating System. , 2015, , .		0
48	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
49	Investigation on the Winter Building Energy Consumption in Rural Areas in Jinan, China. Procedia Engineering, 2015, 121, 1819-1826.	1.2	4
50	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
51	Effect of urban neighborhoods on the performance of building cooling systems. Building and Environment, 2015, 90, 15-29.	6.9	65
52	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
53	Numerical simulation of convective heat transfer coefficients at the external surfaces of building arrays immersed in a turbulent boundary layer. International Journal of Heat and Mass Transfer, 2013, 61, 209-225.	4.8	81
54	A Rapid and Reliable Numerical Method for Predictions of Outdoor Thermal Environment in Actual Urban Areas. , 2013, , .		0

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55	Optimization of Control Strategies for the Radiant Floor Cooling System Combined with Displacement Ventilation: A Case study of an Office Building in Jinan, China. International Journal of Architectural Engineering Technology, 0, 6, 33-48.	0.1	9
56	A Transient Two-dimensional CFD Evaluation of Indoor Thermal Comfort with an Intermittently-operated Radiant Floor Heating System in an Office Building. International Journal of Architectural Engineering Technology, 0, 7, 62-87.	0.1	6