Moon Keun Kim

List of Publications by Year
in descending order

37 papers	884 citations	535685 17 h-index	536525 29 g-index
37 all docs	37 docs citations	37 times ranked	699 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.	1.5	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.	4.5	28
3	Investigation of outdoor air pollutant, PM_{2.5} affecting the indoor air quality in a high-rise building. Indoor and Built Environment, 2022, 31, 895-912.	1.5	13
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.	1.5	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.	1.4	2
6	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.	1.6	6
7	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.	5.1	14
8	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.	1.5	8
9	Optimal Design Strategy of a Solar Reflector Combining Photovoltaic Panels to Improve Electricity Output: A Case Study in Calgary, Canada. Sustainability, 2021, 13, 6115.	1.6	11
10	Comparative Modelling Analysis of Air Pollutants, PM2.5 and Energy Efficiency Using Three Ventilation Strategies in a High-Rise Building: A Case Study in Suzhou, China. Sustainability, 2021, 13, 8453.	1.6	4
11	Investigation of Applicability of Impact Factors to Estimate Solar Irradiance: Comparative Analysis Using Machine Learning Algorithms. Applied Sciences (Switzerland), 2021, 11, 8533.	1.3	3
12	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.	1.3	4
13	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.	1.2	11
14	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.	1.5	34
15	Impact of correlation of plug load data, occupancy rates and local weather conditions on electricity consumption in a building using four back-propagation neural network models. Sustainable Cities and Society, 2020, 62, 102321.	5.1	32
16	Predictions of electricity consumption in a campus building using occupant rates and weather elements with sensitivity analysis: Artificial neural network vs. linear regression. Sustainable Cities and Society, 2020, 62, 102385.	5.1	80
17	A Review of CFD Analysis Methods for Personalized Ventilation (PV) in Indoor Built Environments. Sustainability, 2019, 11, 4166.	1.6	51
18	Numerical Simulation Modeling of a GSHP and WSHP System for an Office Building in the Hot Summer and Cold Winter Region of China: A Case Study in Suzhou. Sustainability, 2019, 11, 3282.	1.6	19

#	Article	IF	Citations
19	Optimal Message Bundling with Delay and Synchronization Constraints in Wireless Sensor Networks. Sensors, 2019, 19, 4027.	2.1	3
20	Simulation and Analysis of Perturbation and Observation-Based Self-Adaptable Step Size Maximum Power Point Tracking Strategy with Low Power Loss for Photovoltaics. Energies, 2019, 12, 92.	1.6	18
21	Simplified Neural Network Model Design with Sensitivity Analysis and Electricity Consumption Prediction in a Commercial Building. Energies, 2019, 12, 1201.	1.6	12
22	Can increased outdoor CO2 concentrations impact on the ventilation and energy in buildings? A case study in Shanghai, China. Atmospheric Environment, 2019, 210, 220-230.	1.9	24
23	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.	0.3	2
24	Neural-Network-Based Building Energy Consumption Prediction with Training Data Generation. Processes, 2019, 7, 731.	1.3	6
25	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.	3.0	54
26	Predicting electricity consumption in a building using an optimized back-propagation and Levenbergâ€“Marquardt back-propagation neural network: Case study of a shopping mall in China. Sustainable Cities and Society, 2018, 42, 176-183.	5.1	115
27	Traffic noise level predictions for buildings with windows opened for natural ventilation in urban environments. Science and Technology for the Built Environment, 2017, 23, 726-735.	0.8	7
28	Performance Evaluation of Hybrid Radiant Cooling System Integrated with Decentralized Ventilation System in Hot and Humid Climates. Procedia Engineering, 2017, 205, 1245-1252.	1.2	16
29	Energy analysis of a decentralized ventilation system compared with centralized ventilation systems in European climates: Based on review of analyses. Energy and Buildings, 2016, 111, 424-433.	3.1	44
30	Performance of novel ventilation strategy for capturing CO 2 with scheduled occupancy diversity and infiltration rate. Building and Environment, 2015, 89, 318-326.	3.0	13
31	A novel ventilation strategy with CO2 capture device and energy saving in buildings. Energy and Buildings, 2015, 87, 134-141.	3.1	45
32	Energy and exergy analyses of advanced decentralized ventilation system compared with centralized cooling and air ventilation systems in the hot and humid climate. Energy and Buildings, 2014, 79, 212-222.	3.1	38
33	A case study on feasible performance of a system combining an airbox convector with a radiant panel for tropical climates. Building and Environment, 2014, 82, 687-692.	3.0	35
34	Advanced Airbox cooling and dehumidification system connected with a chilled ceiling panel in series adapted to hot and humid climates. Energy and Buildings, 2014, 85, 72-78.	3.1	31
35	Evaluation of the humidity performance of a novel radiant cooling system connected with an Airbox convector as a low exergy system adapted to hot and humid climates. Energy and Buildings, 2014, 84, 224-232.	3.1	20
36	Decentralized cooling and dehumidification with a 3 stage LowEx heat exchanger for free reheating. Energy and Buildings, 2014, 76, 270-277.	3.1	24

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37	Evaluating and adapting low exergy systems with decentralized ventilation for tropical climates. Energy and Buildings, 2013, 67, 559-567.	3.1	31