

# Yihuan Yan

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

744  
citations

567144

15  
h-index

642610

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

535  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of pilots' micro-environment in an airliner cockpit. <i>Building and Environment</i> , 2022, 217, 109043.	3.0	4
2	Solar-assisted naturally ventilated double skin facade for buildings: Room impacts and indoor air quality. <i>Building and Environment</i> , 2022, 216, 109002.	3.0	7
3	Evaporation flow characteristics of respiratory droplets: Dynamic property under multifarious ambient conditions. <i>Building and Environment</i> , 2022, 221, 109272.	3.0	7
4	Transmission of COVID-19 virus by cough-induced particles in an airliner cabin section. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 934-950.	1.5	15
5	Numerical investigation of indoor particulate contaminant transport using the Eulerian-Eulerian and Eulerian-Lagrangian two-phase flow models. <i>Experimental and Computational Multiphase Flow</i> , 2020, 2, 31-40.	1.9	43
6	Evaluation of cough-jet effects on the transport characteristics of respiratory-induced contaminants in airline passengers' local environments. <i>Building and Environment</i> , 2020, 183, 107206.	3.0	40
7	A PMV-based HVAC control strategy for office rooms subjected to solar radiation. <i>Building and Environment</i> , 2020, 177, 106863.	3.0	40
8	Characterisation and analysis of indoor tornado for contaminant removal and emergency ventilation. <i>Building and Environment</i> , 2019, 164, 106345.	3.0	14
9	Effects of surface radiation on gaseous contaminants emission and dispersion in indoor environment – A numerical study. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 854-862.	2.5	8
10	Thermal effect of human body on cough droplets evaporation and dispersion in an enclosed space. <i>Building and Environment</i> , 2019, 148, 96-106.	3.0	78
11	Modelling of evaporation of cough droplets in inhomogeneous humidity fields using the multi-component Eulerian-Lagrangian approach. <i>Building and Environment</i> , 2018, 128, 68-76.	3.0	105
12	Assessment of turbulence models and air supply opening models for CFD modelling of airflow and gaseous contaminant distributions in aircraft cabins. <i>Indoor and Built Environment</i> , 2018, 27, 606-621.	1.5	24
13	Effects of cough-jet on airflow and contaminant transport in an airliner cabin section. <i>Journal of Computational Multiphase Flows</i> , 2018, 10, 72-82.	0.8	41
14	Evaluation of models and methods to simulate thermal radiation in indoor spaces. <i>Building and Environment</i> , 2018, 144, 259-267.	3.0	19
15	Evaluation of airborne disease infection risks in an airliner cabin using the Lagrangian-based Wells-Riley approach. <i>Building and Environment</i> , 2017, 121, 79-92.	3.0	78
16	Overall performance evaluation of underfloor air distribution system with different heights of return vents. <i>Energy and Buildings</i> , 2017, 147, 176-187.	3.1	37
17	Effects of manikin model simplification on CFD predictions of thermal flow field around human bodies. <i>Indoor and Built Environment</i> , 2017, 26, 1185-1197.	1.5	9
18	Numerical investigations of the effects of manikin simplifications on the thermal flow field in indoor spaces. <i>Building Simulation</i> , 2017, 10, 219-227.	3.0	12

#	ARTICLE	IF	CITATIONS
19	Evaluation of manikin simplification methods for CFD simulations in occupied indoor environments. <i>Energy and Buildings</i> , 2016, 127, 611-626.	3.1	37
20	Effects of passenger thermal plume on the transport and distribution characteristics of airborne particles in an airliner cabin section. <i>Science and Technology for the Built Environment</i> , 2016, 22, 153-163.	0.8	21
21	An Eulerian-Eulerian model for particulate matter transport in indoor spaces. <i>Building and Environment</i> , 2015, 86, 191-202.	3.0	40
22	Study on the carbon dioxide lockup phenomenon in aircraft cabin by computational fluid dynamics. <i>Building Simulation</i> , 2015, 8, 431-441.	3.0	37
23	The simplification of computer simulated persons (CSPs) in CFD models of occupied indoor spaces. <i>Building and Environment</i> , 2015, 93, 155-164.	3.0	28