

Xiaodong Cao

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,258
citations

279798

23
h-index

233421

45
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48
all docs

48
docs citations

48
times ranked

2584
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstruction of airflow path parameters in multizone models based on Bayesian inference and measured data. <i>Building and Environment</i> , 2022, 209, 108689.	6.9	2
2	Associations of Human Cognitive Abilities with Elevated Carbon Dioxide Concentrations in an Enclosed Chamber. <i>Atmosphere</i> , 2022, 13, 891.	2.3	1
3	The effects of carbon dioxide exposure concentrations on human vigilance and sentiment in an enclosed workplace environment. <i>Indoor Air</i> , 2021, 31, 467-479.	4.3	13
4	Physiological responses to elevated carbon dioxide concentration and mental workload during performing MATB tasks. <i>Building and Environment</i> , 2021, 195, 107752.	6.9	20
5	Associations between acute exposures to PM _{2.5} and carbon dioxide indoors and cognitive function in office workers: a multicountry longitudinal prospective observational study. <i>Environmental Research Letters</i> , 2021, 16, 094047.	5.2	19
6	Large-scale and long-term monitoring of the thermal environments and adaptive behaviors in Chinese urban residential buildings. <i>Building and Environment</i> , 2020, 168, 106524.	6.9	22
7	Experimental Investigation of Air Quality in a Subway Station with Fully Enclosed Platform Screen Doors. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5213.	2.6	5
8	Effect of pH regulation on the components and functional properties of proteins isolated from cold-pressed rapeseed meal through alkaline extraction and acid precipitation. <i>Food Chemistry</i> , 2020, 327, 126998.	8.2	39
9	The effects of elevated carbon dioxide concentration and mental workload on task performance in an enclosed environmental chamber. <i>Building and Environment</i> , 2020, 178, 106938.	6.9	20
10	Low pH-shifting treatment would improve functional properties of black turtle bean (<i>Phaseolus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	8.2	41
11	Combined effects of pH and thermal treatments on IgE-binding capacity and conformational structures of lectin from black kidney bean (<i>Phaseolus vulgaris</i> L.). <i>Food Chemistry</i> , 2020, 329, 127183.	8.2	10
12	Experimental study of the changes in thermal expectation during simulated flights in a civil aircraft cabin mockup. <i>Indoor and Built Environment</i> , 2020, 29, 1277-1288.	2.8	2
13	The on-board carbon dioxide concentrations and ventilation performance in passenger cabins of US domestic flights. <i>Indoor and Built Environment</i> , 2019, 28, 761-771.	2.8	30
14	Airplane pilot flight performance on 21 maneuvers in a flight simulator under varying carbon dioxide concentrations. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019, 29, 457-468.	3.9	63
15	Heart Rate Variability and Performance of Commercial Airline Pilots during Flight Simulations. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 237.	2.6	34
16	Electrochemical detection of Salmonella using an invA genosensor on polypyrrole-reduced graphene oxide modified glassy carbon electrode and AuNPs-horseradish peroxidase-streptavidin as nanotag. <i>Analytica Chimica Acta</i> , 2019, 1074, 80-88.	5.4	55
17	Gold nanoparticle-doped three-dimensional reduced graphene hydrogel modified electrodes for amperometric determination of indole-3-acetic acid and salicylic acid. <i>Nanoscale</i> , 2019, 11, 10247-10256.	5.6	24
18	Response to a critical look at Energy savings, emissions reductions, and health co-benefits of the green building movement. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019, 29, 594-596.	3.9	1

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19	Impact of atmospheric particulate matter pollutants to IAQ of airport terminal buildings: A first field study at Tianjin Airport, China. <i>Atmospheric Environment</i> , 2018, 179, 222-226.	4.1	21
20	Energy savings, emission reductions, and health co-benefits of the green building movement. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2018, 28, 307-318.	3.9	97
21	Building Evidence for Health: Green Buildings, Current Science, and Future Challenges. <i>Annual Review of Public Health</i> , 2018, 39, 291-308.	17.4	64
22	A label-free electrochemical DNA biosensor based on thionine functionalized reduced graphene oxide. <i>Carbon</i> , 2018, 129, 730-737.	10.3	60
23	Predicting contaminant dispersion using modified turbulent Schmidt numbers from different vortex structures. <i>Building and Environment</i> , 2018, 130, 120-127.	6.9	23
24	Assessment of noise in the airplane cabin environment. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2018, 28, 568-578.	3.9	10
25	Ultrafine particles in the cabin of a waiting commercial airliner at Tianjin International Airport, China. <i>Indoor and Built Environment</i> , 2018, 27, 1247-1258.	2.8	7
26	Ultrasensitive electrochemical DNA sensor for virulence <i>invA</i> gene of <i>Salmonella</i> using silver nanoclusters as signal probe. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 53-59.	7.8	48
27	Using Twitter to Better Understand the Spatiotemporal Patterns of Public Sentiment: A Case Study in Massachusetts, USA. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 250.	2.6	35
28	PIV measurement of human thermal convection flow in a simplified vehicle cabin. <i>Building and Environment</i> , 2018, 144, 305-315.	6.9	10
29	Influencing factors and energy-saving control strategies for indoor fine particles in commercial office buildings in six Chinese cities. <i>Energy and Buildings</i> , 2017, 149, 171-179.	6.7	24
30	PIV methods for quantifying human thermal plumes in a cabin environment without ventilation. <i>Journal of Visualization</i> , 2017, 20, 535-548.	1.8	24
31	Ventilation similarity of an aircraft cabin mockup with a real MD-82 commercial airliner. <i>Building and Environment</i> , 2017, 111, 80-90.	6.9	12
32	Radon-induced lung cancer deaths may be overestimated due to failure to account for confounding by exposure to diesel engine exhaust in BEIR VI miner studies. <i>PLoS ONE</i> , 2017, 12, e0184298.	2.5	11
33	Building energy-consumption status worldwide and the state-of-the-art technologies for zero-energy buildings during the past decade. <i>Energy and Buildings</i> , 2016, 128, 198-213.	6.7	876
34	A study of ambient fine particles at Tianjin International Airport, China. <i>Science of the Total Environment</i> , 2016, 556, 126-135.	8.0	33
35	Numerical investigation of airborne contaminant transport under different vortex structures in the aircraft cabin. <i>International Journal of Heat and Mass Transfer</i> , 2016, 96, 287-295.	4.8	44
36	Numerical study of the instantaneous flow fields by large eddy simulation and stability analysis in a single aisle cabin model. <i>Building and Environment</i> , 2016, 96, 1-11.	6.9	14

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37	Experimental study of transient air distribution of a jet collision region in an aircraft cabin mock-up. Energy and Buildings, 2016, 127, 786-793.	6.7	32
38	2D-PIV measurement of isothermal air jets from a multi-slot diffuser in aircraft cabin environment. Building and Environment, 2016, 99, 44-58.	6.9	26
39	2D-PIV Experimental Study on the Air Distribution with Natural Convection Effect of Passengers in an Air Cabin Mockup. Procedia Engineering, 2015, 121, 866-874.	1.2	4
40	Global airflow field distribution in a cabin mock-up measured via large-scale 2D-PIV. Building and Environment, 2015, 93, 234-244.	6.9	52
41	Numerical Simulations of the Instantaneous Flow Fields in a Generic Aircraft Cabin with Various Categories Turbulence Models. Procedia Engineering, 2015, 121, 1827-1835.	1.2	5
42	Study of the thermal insulation properties of the glass fiber board used for interior building envelope. Energy and Buildings, 2015, 107, 49-58.	6.7	35
43	Experimental and simulation study on the performance of daylighting in an industrial building and its energy saving potential. Energy and Buildings, 2014, 73, 184-191.	6.7	70
44	Coupled simulation of natural ventilation and daylighting for a residential community design. Energy and Buildings, 2014, 68, 686-695.	6.7	22
45	Particle image velocimetry measurement of indoor airflow field: A review of the technologies and applications. Energy and Buildings, 2014, 69, 367-380.	6.7	122
46	2D-PIV measurement of aircraft cabin air distribution with a high spatial resolution. Building and Environment, 2014, 82, 9-19.	6.9	75
47	An Overview of the Applications of Particle Image Velocimetry for Indoor Airflow Field Measurement. Lecture Notes in Electrical Engineering, 2014, , 223-231.	0.4	1