

Xiaodong Cao

List of Publications by Year in descending order

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47
papers

2,258
citations

279487

23
h-index

233125

45
g-index

48
all docs

48
docs citations

48
times ranked

2584
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.1	876
2	Particle image velocimetry measurement of indoor airflow field: A review of the technologies and applications. <i>Energy and Buildings</i> , 2014, 69, 367-380.	3.1	122
3	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.	1.8	97
4	2D-PIV measurement of aircraft cabin air distribution with a high spatial resolution. <i>Building and Environment</i> , 2014, 82, 9-19.	3.0	75
5	Experimental and simulation study on the performance of daylighting in an industrial building and its energy saving potential. <i>Energy and Buildings</i> , 2014, 73, 184-191.	3.1	70
6	Building Evidence for Health: Green Buildings, Current Science, and Future Challenges. <i>Annual Review of Public Health</i> , 2018, 39, 291-308.	7.6	64
7	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.	1.8	63
8	A label-free electrochemical DNA biosensor based on thionine functionalized reduced graphene oxide. <i>Carbon</i> , 2018, 129, 730-737.	5.4	60
9	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.	2.6	55
10	Global airflow field distribution in a cabin mock-up measured via large-scale 2D-PIV. <i>Building and Environment</i> , 2015, 93, 234-244.	3.0	52
11	Ultrasensitive electrochemical DNA sensor for virulence invA gene of Salmonella using silver nanoclusters as signal probe. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 53-59.	4.0	48
12	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.	2.5	44
13	Low pH-shifting treatment would improve functional properties of black turtle bean (<i>Phaseolus</i>) Tj ETQq1 1 0.784314 rgBT / Overlock 41	4.2	41
14	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.	4.2	39
15	Study of the thermal insulation properties of the glass fiber board used for interior building envelope. <i>Energy and Buildings</i> , 2015, 107, 49-58.	3.1	35
16	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.	1.2	35
17	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.	1.2	34
18	A study of ambient fine particles at Tianjin International Airport, China. <i>Science of the Total Environment</i> , 2016, 556, 126-135.	3.9	33

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19	Experimental study of transient air distribution of a jet collision region in an aircraft cabin mock-up. <i>Energy and Buildings</i> , 2016, 127, 786-793.	3.1	32
20	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.	1.5	30
21	2D-PIV measurement of isothermal air jets from a multi-slot diffuser in aircraft cabin environment. <i>Building and Environment</i> , 2016, 99, 44-58.	3.0	26
22	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.	3.1	24
23	PIV methods for quantifying human thermal plumes in a cabin environment without ventilation. <i>Journal of Visualization</i> , 2017, 20, 535-548.	1.1	24
24	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.	2.8	24
25	Predicting contaminant dispersion using modified turbulent Schmidt numbers from different vortex structures. <i>Building and Environment</i> , 2018, 130, 120-127.	3.0	23
26	Coupled simulation of natural ventilation and daylighting for a residential community design. <i>Energy and Buildings</i> , 2014, 68, 686-695.	3.1	22
27	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.	3.0	22
28	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.	1.9	21
29	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.	3.0	20
30	Physiological responses to elevated carbon dioxide concentration and mental workload during performing MATB tasks. <i>Building and Environment</i> , 2021, 195, 107752.	3.0	20
31	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.	2.2	19
32	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.	3.0	14
33	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.	2.0	13
34	Ventilation similarity of an aircraft cabin mockup with a real MD-82 commercial airliner. <i>Building and Environment</i> , 2017, 111, 80-90.	3.0	12
35	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.	1.1	11
36	Assessment of noise in the airplane cabin environment. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2018, 28, 568-578.	1.8	10

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37	PIV measurement of human thermal convection flow in a simplified vehicle cabin. <i>Building and Environment</i> , 2018, 144, 305-315.	3.0	10
38	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.	4.2	10
39	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.	1.5	7
40	Numerical Simulations of the Instantaneous Flow Fields in a Generic Aircraft Cabin with Various Categories Turbulence Models. <i>Procedia Engineering</i> , 2015, 121, 1827-1835.	1.2	5
41	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.	1.2	5
42	2D-PIV Experimental Study on the Air Distribution with Natural Convection Effect of Passengers in an Air Cabin Mockup. <i>Procedia Engineering</i> , 2015, 121, 866-874.	1.2	4
43	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.	1.5	2
44	Reconstruction of airflow path parameters in multizone models based on Bayesian inference and measured data. <i>Building and Environment</i> , 2022, 209, 108689.	3.0	2
45	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.	1.8	1
46	An Overview of the Applications of Particle Image Velocimetry for Indoor Airflow Field Measurement. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 223-231.	0.3	1
47	Associations of Human Cognitive Abilities with Elevated Carbon Dioxide Concentrations in an Enclosed Chamber. <i>Atmosphere</i> , 2022, 13, 891.	1.0	1