

Cao Guangyu

List of Publications by Year in descending order

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37
papers

1,229
citations

394421

19
h-index

361022

35
g-index

37
all docs

37
docs citations

37
times ranked

835
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the performance of different ventilation and airflow distribution systems in buildings. <i>Building and Environment</i> , 2014, 73, 171-186.	6.9	363
2	Indoor air pollutants, ventilation rate determinants and potential control strategies in Chinese dwellings: A literature review. <i>Science of the Total Environment</i> , 2017, 586, 696-729.	8.0	140
3	Modelling and experimental study of performance of the protected occupied zone ventilation. <i>Energy and Buildings</i> , 2014, 68, 515-531.	6.7	46
4	Estimating the impact of indoor relative humidity on SARS-CoV-2 airborne transmission risk using a new modification of the Wells-Riley model. <i>Building and Environment</i> , 2021, 205, 108278.	6.9	44
5	Thermal comfort in hospital buildings – A literature review. <i>Journal of Building Engineering</i> , 2022, 45, 103463.	3.4	43
6	Particle Image Velocimetry (PIV) application in the measurement of indoor air distribution by an active chilled beam. <i>Building and Environment</i> , 2010, 45, 1932-1940.	6.9	42
7	Do surgeons and surgical facilities disturb the clean air distribution close to a surgical patient in an orthopedic operating room with laminar airflow?. <i>American Journal of Infection Control</i> , 2018, 46, 1115-1122.	2.3	42
8	BIM Integrated LCA for Promoting Circular Economy towards Sustainable Construction: An Analytical Review. <i>Sustainability</i> , 2021, 13, 1310.	3.2	41
9	Impact of surgical lights on the velocity distribution and airborne contamination level in an operating room with laminar airflow system. <i>Building and Environment</i> , 2017, 126, 42-53.	6.9	38
10	CFD study of the air distribution and occupant draught sensation in a patient ward equipped with protected zone ventilation. <i>Building and Environment</i> , 2019, 162, 106279.	6.9	35
11	Laminar airflow and mixing ventilation: Which is better for operating room airflow distribution near an orthopedic surgical patient?. <i>American Journal of Infection Control</i> , 2019, 47, 737-743.	2.3	35
12	Infection probability under different air distribution patterns. <i>Building and Environment</i> , 2022, 207, 108555.	6.9	35
13	Simulation of the heating performance of the Kang system in one Chinese detached house using biomass. <i>Energy and Buildings</i> , 2011, 43, 189-199.	6.7	30
14	Modelling and simulation of the near-wall velocity of a turbulent ceiling attached plane jet after its impingement with the corner. <i>Building and Environment</i> , 2011, 46, 489-500.	6.9	25
15	Experimental investigation and modelling of a buoyant attached plane jet in a room. <i>Applied Thermal Engineering</i> , 2009, 29, 2790-2798.	6.0	24
16	Evaluation of airborne contaminant exposure in a single-bed isolation ward equipped with a protected occupied zone ventilation system. <i>Indoor and Built Environment</i> , 2019, 28, 1092-1103.	2.8	24
17	PIV measurement of the attached plane jet velocity field at a high turbulence intensity level in a room. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 897-908.	2.4	22
18	A systematic review of operating room ventilation. <i>Journal of Building Engineering</i> , 2021, 40, 102693.	3.4	22

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19	Experimental study of the effect of turbulence intensities on the maximum velocity decay of an attached plane jet. <i>Energy and Buildings</i> , 2013, 65, 127-136.	6.7	20
20	Experimental investigation of the velocity distribution of the attached plane jet after impingement with the corner in a high room. <i>Energy and Buildings</i> , 2010, 42, 935-944.	6.7	19
21	Characterizing the Dynamic Interactions and Exposure Implications of a Particle-Laden Cough Jet with Different Room Airflow Regimes Produced by Low and High Momentum Jets. <i>Aerosol and Air Quality Research</i> , 2015, 15, 1955-1966.	2.1	18
22	Natural heat transfer air-conditioning terminal device and its system configuration for ultra-low energy buildings. <i>Renewable Energy</i> , 2020, 154, 1113-1121.	8.9	17
23	Experimental study on the effect of exhaust airflows on the surgical environment in an operating room with mixing ventilation. <i>Journal of Building Engineering</i> , 2020, 32, 101837.	3.4	16
24	Dynamic interaction of a downward plane jet and a cough jet with respect to particle transmission: An analytical and experimental study. <i>Journal of Occupational and Environmental Hygiene</i> , 2017, 14, 618-631.	1.0	14
25	The impact of air change rate on the air quality of surgical microenvironment in an operating room with mixing ventilation. <i>Journal of Building Engineering</i> , 2020, 32, 101770.	3.4	14
26	Experimental measurements of surgical microenvironments in two operating rooms with laminar airflow and mixing ventilation systems. <i>Energy and Built Environment</i> , 2021, 2, 149-156.	5.9	9
27	Experimental and simulated evaluations of airborne contaminant exposure in a room with a modified localized laminar airflow system. <i>Environmental Science and Pollution Research</i> , 2021, 28, 30642-30663.	5.3	9
28	Suitability evaluation on laminar airflow and mixing airflow distribution strategies in operating rooms: A case study at St. Olavs Hospital. <i>Building and Environment</i> , 2021, 194, 107677.	6.9	9
29	An experimental study on the effects of positioning medical equipment on contaminant exposure of a patient in an operating room with unidirectional downflow. <i>Building and Environment</i> , 2019, 165, 106096.	6.9	8
30	Indoor airflow interactions with symmetrical and asymmetrical heat load distributions under diffuse ceiling ventilation. <i>Science and Technology for the Built Environment</i> , 2019, 25, 716-731.	1.7	6
31	Ventilation in low energy residences – a survey on code requirements, implementation barriers and operational challenges from seven European countries. <i>International Journal of Ventilation</i> , 2021, 20, 83-102.	0.4	6
32	Experimental study on the exposure level of surgical staff to SARS-CoV-2 in operating rooms with mixing ventilation under negative pressure. <i>Building and Environment</i> , 2022, 217, 109091.	6.9	5
33	Can clothing systems and human activity in operating rooms with mixed flow ventilation systems help achieve the ultraclean air requirement ($\leq 10 \text{ACFU}/\text{m}^3$) during orthopaedic surgeries?. <i>Journal of Hospital Infection</i> , 2022, 120, 110-116.	2.9	4
34	Experimental study of the transverse diffusion of pollutants through a downward plane jet in a room. <i>International Journal of Ventilation</i> , 2018, 17, 81-92.	0.4	2
35	Numerical Simulation of Aerosol Particles Distribution in a Classroom. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 203-210.	0.4	2
36	Celebrating 30 years of conference series on industrial ventilation-health, comfort and efficiency. <i>International Journal of Ventilation</i> , 2017, 16, 161-162.	0.4	0

#	ARTICLE	IF	CITATIONS
37	The investigation of the influence of thermal plume and breathing on sleeping microenvironment. Journal of Environmental Health Science & Engineering, 2021, 19, 1087-1106.	3.0	0