

Angui Li

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

129
papers

1,722
citations

25
h-index

32
g-index

134
ext. papers

2,212
ext. citations

5.4
avg, IF

5.55
L-index

#	Paper	IF	Citations
129	Natural ventilation driven by a restricted heat source elevated to different levels. <i>Building Simulation</i> , 2022 , 15, 281	3.9	0
128	Analysis and optimization of air distribution and ventilation performance in a generator hall using an innovative attached air supply mode. <i>Building and Environment</i> , 2022 , 216, 108993	6.5	0
127	A novel type of unpowered air curtain at a tunnel portal to reduce the intrusion of cold air. <i>Building and Environment</i> , 2022 , 218, 109113	6.5	0
126	Study on fire smoke control in evacuation passageways on the top floor of an atrium involving breathing zones combined with underfloor makeup air supplementation. <i>Safety Science</i> , 2022 , 153, 105807	5.8	1
125	Numerical study of particle spatial distribution under column attachment ventilation. <i>Journal of Building Engineering</i> , 2022 , 53, 104599	5.2	0
124	Resistance reduction of an elbow with a guide vane based on the field synergy principle and viscous dissipation analysis. <i>Journal of Building Engineering</i> , 2022 , 104649	5.2	1
123	Infection probability under different air distribution patterns. <i>Building and Environment</i> , 2021 , 207, 108565	5.5	2
122	Analysis of microclimate characteristics in solar greenhouses under natural ventilation. <i>Building Simulation</i> , 2021 , 14, 1811-1821	3.9	4
121	Effect of operational modes on the train-induced airflow and thermal environment in a subway station with full-height platform bailout doors. <i>Building and Environment</i> , 2021 , 194, 107671	6.5	5
120	Radiation noise control of a 90° rectangular elbow in ventilation and air conditioning systems. <i>Journal of Building Engineering</i> , 2021 , 37, 102157	5.2	4
119	Velocity distribution of wall-attached jets in slotted-inlet ventilated rooms. <i>Building and Environment</i> , 2021 , 194, 107708	6.5	6
118	A review of intensified conditioning of personal micro-environments: Moving closer to the human body. <i>Energy and Built Environment</i> , 2021 , 2, 260-270	6.3	13
117	Assessment of seasonal variations in concentration, particle-size distribution, and taxonomic composition of airborne fungi in a courtyard space. <i>Atmospheric Pollution Research</i> , 2021 , 12, 113-121	4.5	6
116	Study on attached ventilation based on inclined walls. <i>Building Simulation</i> , 2021 , 14, 667-679	3.9	1
115	Research on a personalized targeted air supply device based on body movement capture. <i>Indoor Air</i> , 2021 , 31, 206-219	5.4	3
114	Buoyancy-driven ventilation of an enclosure containing a convective area heat source. <i>International Journal of Thermal Sciences</i> , 2021 , 159, 106551	4.1	8
113	Comparative analysis of earth to air heat exchanger configurations based on uniformity and thermal performance. <i>Applied Thermal Engineering</i> , 2021 , 183, 116152	5.8	9

112	Temporal variation of airborne fungi in university library rooms and its relation to environmental parameters and potential confounders. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 14068-14079	5.1	2
111	Research on optimization and design methods for air distribution system based on target values. <i>Building Simulation</i> , 2021 , 14, 721-735	3.9	4
110	A numerical study on the effect of column layout on air distribution and performance of column attachment ventilation. <i>Building Simulation</i> , 2021 , 14, 1095-1108	3.9	7
109	Adaptive wall-based attachment ventilation: A comparative study on its effectiveness in airborne infection isolation rooms with negative pressure. <i>Engineering</i> , 2021 , 8, 130-130	9.7	5
108	A novel convection and radiation combined terminal device: Its impact on occupant thermal comfort and cognitive performance in winter indoor environments. <i>Energy and Buildings</i> , 2021 , 246, 11117-1123	7.23	3
107	Sensitivity analysis and prediction of shading effect of external Venetian blind for nearly zero-energy buildings in China. <i>Journal of Building Engineering</i> , 2021 , 41, 102401	5.2	2
106	Flow characteristics and structural parametric optimisation design of rectangular plenum chambers for HVAC systems. <i>Energy and Buildings</i> , 2021 , 246, 111112	7	2
105	Air distribution and thermal environment optimization on subway platform using an innovative attached ventilation mode. <i>Building and Environment</i> , 2021 , 204, 108226	6.5	2
104	Multi-objective air terminal of a household air conditioner based on the principle of central projection. <i>Energy and Buildings</i> , 2021 , 249, 111212	7	2
103	Determination of HVAC meteorological parameters for floating nuclear power stations (FNPSs) in the area of China sea and its vicinity. <i>Energy</i> , 2021 , 233, 121084	7.9	2
102	Probing the historic thermal and humid environment in a 2000-year-old ancient underground tomb and enlightenment for cultural heritage protection and preventive conservation. <i>Energy and Buildings</i> , 2021 , 251, 111388	7	2
101	Seasonal structural characteristics of indoor airborne fungi in library rooms by culturing and high-throughput sequencing. <i>Building and Environment</i> , 2021 , 206, 108368	6.5	0
100	A novel approach for solar greenhouse air temperature and heating load prediction based on Laplace transform. <i>Journal of Building Engineering</i> , 2021 , 44, 102682	5.2	7
99	Comparative studies on isothermal attachment ventilation based on vertical walls, square and circular columns. <i>Energy and Buildings</i> , 2021 , 231, 110634	7	5
98	Enhanced effects of footwarmer by wearing sandals in winter office: A Swedish case study. <i>Indoor and Built Environment</i> , 2020 , 1420326X2091397	1.8	6
97	Relative importance of certain factors affecting the thermal environment in subway stations based on field and orthogonal experiments. <i>Sustainable Cities and Society</i> , 2020 , 56, 102107	10.1	16
96	Field comparison test study of external shading effect on thermal-optical performance of ultralow-energy buildings in cold regions of China. <i>Building and Environment</i> , 2020 , 180, 106926	6.5	8
95	On-site investigation of the concentration and size distribution characteristics of airborne fungi in a university library. <i>Environmental Pollution</i> , 2020 , 261, 114138	9.3	12

94	Interaction of the thermal plumes generated from two heat sources of equal strength in a naturally ventilated space. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020 , 198, 104085	3.7	4
93	Experimental and numerical study on heavy gas contaminant dispersion and ventilation design for industrial buildings. <i>Sustainable Cities and Society</i> , 2020 , 55, 102016	10.1	13
92	Train-Induced Unsteady Airflow (TIUA) Characteristics in Subway Ventilation Network. <i>Environmental Science and Engineering</i> , 2020 , 1513-1521	0.2	
91	Evaluation of Factors Toward Flow Distribution in the Dividing Manifold Systems with Parallel Pipe Arrays Using the Orthogonal Experiment Design. <i>Environmental Science and Engineering</i> , 2020 , 297-305	0.2	
90	Feasibility and performance study on hybrid air source heat pump system for ultra-low energy building in severe cold region of China. <i>Renewable Energy</i> , 2020 , 146, 2124-2133	8.1	21
89	Modeling thermal and geometrical effects on non-condensable gas desorption in horizontal-tube bundles of falling film evaporation. <i>Desalination</i> , 2020 , 478, 114302	10.3	8
88	A new evaluation indicator of air distribution in buildings. <i>Sustainable Cities and Society</i> , 2020 , 53, 101836	0.1	11
87	Analytical model for solar radiation transmitting the curved transparent surface of solar greenhouse. <i>Journal of Building Engineering</i> , 2020 , 32, 101785	5.2	7
86	Experimental study on the characteristics of entrained air during the particle flow fall process. <i>Powder Technology</i> , 2020 , 374, 421-429	5.2	1
85	Study on the relationship between the CO2 concentration and pedestrian flow in a building evacuation passageway. <i>Indoor and Built Environment</i> , 2020 , 1420326X2094036	1.8	3
84	Industrial ventilation design method 2020 , 19-37		1
83	Performance evaluation by computational fluid dynamics modelling of the heavy gas dispersion with a low Froude number in a built environment. <i>Indoor and Built Environment</i> , 2020 , 29, 656-670	1.8	4
82	Modelling of room air temperature profile with displacement ventilation. <i>International Journal of Ventilation</i> , 2020 , 19, 112-126	1.1	5
81	Optimization of outdoor design temperature for summer ventilation for undersea road tunnel using field measurement and statistics. <i>Building and Environment</i> , 2020 , 167, 106457	6.5	9
80	Indoor airborne fungal levels in selected comprehensive compartments of the urban utility tunnel in Nanjing, Southeast China. <i>Sustainable Cities and Society</i> , 2019 , 51, 101723	10.1	15
79	Attached ventilation based on a curved surface wall. <i>Building Simulation</i> , 2019 , 12, 505-515	3.9	6
78	Hood performance and capture efficiency of kitchens: A review. <i>Building and Environment</i> , 2019 , 161, 106221	6.5	27
77	A novel low-resistance damper for use within a ventilation and air conditioning system based on the control of energy dissipation. <i>Building and Environment</i> , 2019 , 157, 205-214	6.5	15

76	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	1.8	5
75	Energy balance evaluation and optimization of photovoltaic systems for zero energy residential buildings in different climate zones of China. <i>Journal of Cleaner Production</i> , 2019 , 235, 1202-1215	10.3	26
74	Ventilation and environmental control of underground spaces: a short review. <i>E3S Web of Conferences</i> , 2019 , 111, 01039	0.5	2
73	Thermal Environment in Kitchen 2019 , 151-190		
72	Kitchen Ventilation Requirements 2019 , 33-59		
71	High-Performance Kitchen Ventilation 2019 , 253-329		
70	Pollutions of Cooking Oil Fume and Health Risks 2019 , 61-150		
69	Measurement and evaluation of indoor air quality in naturally ventilated residential buildings. <i>Indoor and Built Environment</i> , 2019 , 28, 1307-1323	1.8	25
68	Ventilation for subway stations with adjustable platform doors created by train-induced unsteady airflow. <i>Building and Environment</i> , 2019 , 152, 87-104	6.5	22
67	Effects of Surface Properties of Vertical Textiles Indoors on Particle Deposition: A Small-scale Chamber Study. <i>Aerosol and Air Quality Research</i> , 2019 , 19, 885-895	4.6	
66	Scale modeling experiments of fire-induced smoke and extraction via mechanical ventilation in an underground hydropower plant. <i>Sustainable Cities and Society</i> , 2019 , 44, 536-549	10.1	10
65	Resistance reduction via guide vane in dividing manifold systems with parallel pipe arrays (DMS-PPA) based on analysis of energy dissipation. <i>Building and Environment</i> , 2018 , 139, 189-198	6.5	10
64	Study of the shape optimization of a tee guide vane in a ventilation and air-conditioning duct. <i>Building and Environment</i> , 2018 , 132, 345-356	6.5	32
63	A novel low-resistance tee of ventilation and air conditioning duct based on energy dissipation control. <i>Applied Thermal Engineering</i> , 2018 , 132, 790-800	5.8	31
62	Numerical simulation, PIV measurements and analysis of air movement influenced by nozzle jets and heat sources in underground generator hall. <i>Building and Environment</i> , 2018 , 131, 16-31	6.5	16
61	Deposition of fine particles on vertical textile surfaces: A small-scale chamber study. <i>Building and Environment</i> , 2018 , 135, 308-317	6.5	14
60	Analyses of the improvement of subway station thermal environment in northern severe cold regions. <i>Building and Environment</i> , 2018 , 143, 579-590	6.5	28
59	Study on natural ventilation driven by a restricted turbulent buoyant plume in an enclosure. <i>Energy and Buildings</i> , 2018 , 177, 173-183	7	3

58	Train-induced unsteady airflow effect analysis on a subway station using field experiments and numerical modelling. <i>Energy and Buildings</i> , 2018 , 174, 228-238	7	27
57	Study on thermal stratification of an enclosure containing two interacting turbulent buoyant plumes of equal strength. <i>Building and Environment</i> , 2018 , 141, 236-246	6.5	13
56	Biomimetic duct tee for reducing the local resistance of a ventilation and air-conditioning system. <i>Building and Environment</i> , 2018 , 129, 130-141	6.5	48
55	A novel low-resistance duct tee emulating a river course. <i>Building and Environment</i> , 2018 , 144, 295-304	6.5	20
54	A novel targeted personalized ventilation system based on the shooting concept. <i>Building and Environment</i> , 2018 , 135, 269-279	6.5	38
53	A method to calculate wall heat fluxes of electrical equipments based on overdetermined linear equation. <i>Applied Thermal Engineering</i> , 2017 , 114, 428-435	5.8	1
52	Field test and CFD modeling for flow characteristics in central cooking exhaust shaft of a high-rise residential building. <i>Energy and Buildings</i> , 2017 , 147, 210-223	7	14
51	Study on thermal pressure in a sloping underground tunnel under natural ventilation. <i>Energy and Buildings</i> , 2017 , 147, 200-209	7	28
50	Estimation of building ventilation on the heat release rate of fire in a room. <i>Applied Thermal Engineering</i> , 2017 , 121, 1111-1116	5.8	8
49	Field test and analysis of microclimate in naturally ventilated single-sloped greenhouses. <i>Energy and Buildings</i> , 2017 , 138, 479-489	7	29
48	PIV experiment and evaluation of air flow performance of swirl diffuser mounted on the floor. <i>Energy and Buildings</i> , 2017 , 156, 58-69	7	14
47	Simulating air distribution and occupants' thermal comfort of three ventilation schemes for subway platform. <i>Building and Environment</i> , 2017 , 125, 15-25	6.5	24
46	Study on Ventilation Effectiveness of Circular Column Attached Displacement Ventilation Mode. <i>Procedia Engineering</i> , 2017 , 205, 3511-3518		9
45	Smoke Confinement with Multi-Stream Air Curtain at Stairwell Entrance. <i>Procedia Engineering</i> , 2017 , 205, 337-344		4
44	Experimental study on airflow characteristics of a square column attached ventilation mode. <i>Building and Environment</i> , 2016 , 109, 112-120	6.5	27
43	Modeling and parametric studies for convective heat transfer in large, long and rough circular cross-sectional underground tunnels. <i>Energy and Buildings</i> , 2016 , 127, 259-267	7	20
42	Determination of dust and microorganism accumulation in different designs of AHU system in Shaanxi History Museum. <i>Building and Environment</i> , 2016 , 104, 232-242	6.5	15
41	2D-PIV experiment analysis on the airflow performance of a floor-based air distribution with a novel mushroom diffuser (FBAD-MD). <i>Energy and Buildings</i> , 2016 , 121, 114-129	7	10

40	Field measurements, assessments and improvement of Kang: Case study in rural northwest China. <i>Energy and Buildings</i> , 2016 , 111, 497-506	7	19
39	1:50 scale modeling study on airflow effectiveness of large spaces mutually connected for underground workshops. <i>Building Simulation</i> , 2016 , 9, 201-212	3.9	3
38	Study of attached air curtain ventilation within a full-scale enclosure: comparison of four turbulence models. <i>Indoor and Built Environment</i> , 2016 , 25, 962-975	1.8	16
37	Enhanced heat transfer for PCM melting in the frustum-shaped unit with multiple PCMs. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 120, 1407-1416	4.1	38
36	New optimized model for water temperature calculation of river-water source heat pump and its application in simulation of energy consumption. <i>Renewable Energy</i> , 2015 , 84, 65-73	8.1	14
35	A comparison study on melting inside the rectangular and curved unit with a vertical heating wall. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 122, 831-842	4.1	13
34	How domes improve fire safety in subway stations. <i>Safety Science</i> , 2015 , 80, 94-104	5.8	15
33	Scaling model study of the air distribution in a powerhouse under different ventilation conditions. <i>Building Simulation</i> , 2014 , 7, 389-400	3.9	7
32	An experimental study on particle deposition above near-wall heat source. <i>Building and Environment</i> , 2014 , 81, 139-149	6.5	21
31	Effect of the length ratio on thermal energy storage in wedge-shaped enclosures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 117, 807-816	4.1	8
30	Prediction of carbon monoxide concentration and optimization of the smoke exhaust system in a busbar corridor. <i>Building Simulation</i> , 2014 , 7, 639-648	3.9	5
29	Reduced-scale experimental study of the temperature field and smoke development of the bus bar corridor fire in the underground hydraulic machinery plant. <i>Tunnelling and Underground Space Technology</i> , 2014 , 41, 95-103	5.7	30
28	Performance of smoke elimination and confinement with modified hybrid ventilation for subway station. <i>Tunnelling and Underground Space Technology</i> , 2014 , 43, 140-147	5.7	15
27	Study on the potential relationships between indoor culturable fungi, particle load and children respiratory health in Xi'an, China. <i>Building and Environment</i> , 2014 , 80, 105-114	6.5	49
26	Capture and Containment Efficiency of the Exhaust Hood in a Typical Chinese Commercial Kitchen with Air Curtain Ventilation. <i>International Journal of Ventilation</i> , 2014 , 13, 221-234	1.1	10
25	Smoke confinement utilizing the USME ventilation mode for subway station fire. <i>Safety Science</i> , 2014 , 70, 202-210	5.8	24
24	Numerical investigation on particle deposition in a chamber with an attached-wall heat source. <i>Indoor and Built Environment</i> , 2014 , 23, 640-652	1.8	8
23	Measurement of temperature, relative humidity and concentrations of CO, CO2 and TVOC during cooking typical Chinese dishes. <i>Energy and Buildings</i> , 2014 , 69, 544-561	7	33

22	A Numerical Investigation of Mechanical Smoke Exhaust in the Powerhouse of an Underground Hydropower Station. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 211-222	0.2	1
21	Measurement of the Pollutants from Cooking Chinese Dishes. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 193-201	0.2	1
20	The impact of various hood shapes, and side panel and exhaust duct arrangements, on the performance of typical Chinese style cooking hoods. <i>Building Simulation</i> , 2013 , 6, 139-149	3.9	29
19	An experiment and simulation of smoke confinement utilizing an air curtain. <i>Safety Science</i> , 2013 , 59, 10-18	5.8	37
18	Experimental studies of mechanically exhausted smoke within the transport passage of the main transformer of an underground hydropower station. <i>Tunnelling and Underground Space Technology</i> , 2013 , 33, 111-118	5.7	8
17	An experiment and simulation of smoke confinement and exhaust efficiency utilizing a modified Opposite Double-Jet Air Curtain. <i>Safety Science</i> , 2013 , 55, 17-25	5.8	19
16	Effect of varying two key parameters in simulating evacuation for a dormitory in China. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013 , 392, 79-88	3.3	12
15	PIV Measurements of Air Distribution in a Reduced-Scale Model - Ventilation of a Busbar Corridor in a Hydropower Station. <i>International Journal of Ventilation</i> , 2013 , 12, 81-98	1.1	5
14	Fire-induced smoke control via hybrid ventilation in a huge transit terminal subway station. <i>Energy and Buildings</i> , 2012 , 45, 280-289	7	59
13	Experimental study on microorganism ecological distribution and contamination mechanism in supply air ducts. <i>Energy and Buildings</i> , 2012 , 47, 497-505	7	19
12	Study of a proposed tunnel evacuation passageway formed by opposite-double air curtain ventilation. <i>Safety Science</i> , 2012 , 50, 1549-1557	5.8	25
11	Prediction of the spread of smoke in a huge transit terminal subway station under six different fire scenarios. <i>Tunnelling and Underground Space Technology</i> , 2012 , 31, 128-138	5.7	46
10	Experimental study and numerical simulation of evacuation from a dormitory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 5189-5196	3.3	17
9	Simulation of pedestrian crowds evacuation in a huge transit terminal subway station. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 5355-5365	3.3	58
8	Influences of exit and stair conditions on human evacuation in a dormitory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 6279-6286	3.3	21
7	Effects of near-wall heat source on particle deposition. <i>Building Simulation</i> , 2012 , 5, 371-382	3.9	9
6	Measurement of temperature, relative humidity, concentration distribution and flow field in four typical Chinese commercial kitchens. <i>Building and Environment</i> , 2012 , 56, 139-150	6.5	34
5	A Novel Air Distribution Method - Principles of Air Curtain Ventilation. <i>International Journal of Ventilation</i> , 2012 , 10, 383-390	1.1	21

4	Reduced-scale model study of ventilation for large space of generatrix floor in HOHHOT underground hydropower station. <i>Energy and Buildings</i> , 2011 , 43, 1003-1010	7	16
3	Experimental analysis on the air distribution of powerhouse of Hohhot hydropower station with 2D-PIV. <i>Energy Conversion and Management</i> , 2010 , 51, 33-41	10.6	32
2	The effect of air-conditioning parameters and deposition dust on microbial growth in supply air ducts. <i>Energy and Buildings</i> , 2010 , 42, 449-454	7	28
1	Effects of makeup air on atrium smoke conditions: A review. <i>Indoor and Built Environment</i> , 2010 , 19, 142-151	14.2	1