Angui Li

List of Publications by Citations

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	Fire-induced smoke control via hybrid ventilation in a huge transit terminal subway station. *Energy and Buildings*, **2012**, 45, 280-289	7	59
128	Simulation of pedestrian crowds evacuation in a huge transit terminal subway station. *Physica A: Statistical Mechanics and Its Applications*, **2012**, 391, 5355-5365	3.3	58
127	Study on the potential relationships between indoor culturable fungi, particle load and children respiratory health in Xi'an, China. *Building and Environment*, **2014**, 80, 105-114	6.5	49
126	Biomimetic duct tee for reducing the local resistance of a ventilation and air-conditioning system. *Building and Environment*, **2018**, 129, 130-141	6.5	48
125	Prediction of the spread of smoke in a huge transit terminal subway station under six different fire scenarios. *Tunnelling and Underground Space Technology*, **2012**, 31, 128-138	5.7	46
124	Enhanced heat transfer for PCM melting in the frustum-shaped unit with multiple PCMs. *Journal of Thermal Analysis and Calorimetry*, **2015**, 120, 1407-1416	4.1	38
123	A novel targeted personalized ventilation system based on the shooting concept. *Building and Environment*, **2018**, 135, 269-279	6.5	38
122	An experiment and simulation of smoke confinement utilizing an air curtain. *Safety Science*, **2013**, 59, 10-18	5.8	37
121	Measurement of temperature, relative humidity, concentration distribution and flow field in four typical Chinese commercial kitchens. *Building and Environment*, **2012**, 56, 139-150	6.5	34
120	Measurement of temperature, relative humidity and concentrations of CO, CO2 and TVOC during cooking typical Chinese dishes. *Energy and Buildings*, **2014**, 69, 544-561	7	33
119	Study of the shape optimization of a tee guide vane in a ventilation and air-conditioning duct. *Building and Environment*, **2018**, 132, 345-356	6.5	32
118	Experimental analysis on the air distribution of powerhouse of Hohhot hydropower station with 2D-PIV. *Energy Conversion and Management*, **2010**, 51, 33-41	10.6	32
117	A novel low-resistance tee of ventilation and air conditioning duct based on energy dissipation control. *Applied Thermal Engineering*, **2018**, 132, 790-800	5.8	31
116	Reduced-scale experimental study of the temperature field and smoke development of the bus bar corridor fire in the underground hydraulic machinery plant. *Tunnelling and Underground Space Technology*, **2014**, 41, 95-103	5.7	30
115	Field test and analysis of microclimate in naturally ventilated single-sloped greenhouses. *Energy and Buildings*, **2017**, 138, 479-489	7	29
114	The impact of various hood shapes, and side panel and exhaust duct arrangements, on the performance of typical Chinese style cooking hoods. *Building Simulation*, **2013**, 6, 139-149	3.9	29
113	Study on thermal pressure in a sloping underground tunnel under natural ventilation. *Energy and Buildings*, **2017**, 147, 200-209	7	28

112	Analyses of the improvement of subway station thermal environment in northern severe cold regions. *Building and Environment*, **2018**, 143, 579-590	6.5	28
111	The effect of air-conditioning parameters and deposition dust on microbial growth in supply air ducts. *Energy and Buildings*, **2010**, 42, 449-454	7	28
110	Hood performance and capture efficiency of kitchens: A review. *Building and Environment*, **2019**, 161, 106221	6.5	27
109	Experimental study on airflow characteristics of a square column attached ventilation mode. *Building and Environment*, **2016**, 109, 112-120	6.5	27
108	Train-induced unsteady airflow effect analysis on a subway station using field experiments and numerical modelling. *Energy and Buildings*, **2018**, 174, 228-238	7	27
107	Energy balance evaluation and optimization of photovoltaic systems for zero energy residential buildings in different climate zones of China. *Journal of Cleaner Production*, **2019**, 235, 1202-1215	10.3	26
106	Study of a proposed tunnel evacuation passageway formed by opposite-double air curtain ventilation. *Safety Science*, **2012**, 50, 1549-1557	5.8	25
105	Measurement and evaluation of indoor air quality in naturally ventilated residential buildings. *Indoor and Built Environment*, **2019**, 28, 1307-1323	1.8	25
104	Simulating air distribution and occupants' thermal comfort of three ventilation schemes for subway platform. *Building and Environment*, **2017**, 125, 15-25	6.5	24
103	Smoke confinement utilizing the USME ventilation mode for subway station fire. *Safety Science*, **2014**, 70, 202-210	5.8	24
102	Ventilation for subway stations with adjustable platform doors created by train-induced unsteady airflow. *Building and Environment*, **2019**, 152, 87-104	6.5	22
101	An experimental study on particle deposition above near-wall heat source. *Building and Environment*, **2014**, 81, 139-149	6.5	21
100	Influences of exit and stair conditions on human evacuation in a dormitory. *Physica A: Statistical Mechanics and Its Applications*, **2012**, 391, 6279-6286	3.3	21
99	A Novel Air Distribution Method - Principles of Air Curtain Ventilation. *International Journal of Ventilation*, **2012**, 10, 383-390	1.1	21
98	Feasibility and performance study on hybrid air source heat pump system for ultra-low energy building in severe cold region of China. *Renewable Energy*, **2020**, 146, 2124-2133	8.1	21
97	Modeling and parametric studies for convective heat transfer in large, long and rough circular cross-sectional underground tunnels. *Energy and Buildings*, **2016**, 127, 259-267	7	20
96	A novel low-resistance duct tee emulating a river course. *Building and Environment*, **2018**, 144, 295-304	6.5	20
95	Field measurements, assessments and improvement of Kang: Case study in rural northwest China. *Energy and Buildings*, **2016**, 111, 497-506	7	19

94	Experimental study on microorganism ecological distribution and contamination mechanism in supply air ducts. *Energy and Buildings*, **2012**, 47, 497-505	7	19
93	An experiment and simulation of smoke confinement and exhaust efficiency utilizing a modified Opposite Double-Jet Air Curtain. *Safety Science*, **2013**, 55, 17-25	5.8	19
92	Experimental study and numerical simulation of evacuation from a dormitory. *Physica A: Statistical Mechanics and Its Applications*, **2012**, 391, 5189-5196	3.3	17
91	Relative importance of certain factors affecting the thermal environment in subway stations based on field and orthogonal experiments. *Sustainable Cities and Society*, **2020**, 56, 102107	10.1	16
90	Numerical simulation, PIV measurements and analysis of air movement influenced by nozzle jets and heat sources in underground generator hall. *Building and Environment*, **2018**, 131, 16-31	6.5	16
89	Reduced-scale model study of ventilation for large space of generatrix floor in HOHHOT underground hydropower station. *Energy and Buildings*, **2011**, 43, 1003-1010	7	16
88	Study of attached air curtain ventilation within a full-scale enclosure: comparison of four turbulence models. *Indoor and Built Environment*, **2016**, 25, 962-975	1.8	16
87	Indoor airborne fungal levels in selected comprehensive compartments of the urban utility tunnel in Nanjing, Southeast China. *Sustainable Cities and Society*, **2019**, 51, 101723	10.1	15
86	A novel low-resistance damper for use within a ventilation and air conditioning system based on the control of energy dissipation. *Building and Environment*, **2019**, 157, 205-214	6.5	15
85	How domes improve fire safety in subway stations. *Safety Science*, **2015**, 80, 94-104	5.8	15
84	Determination of dust and microorganism accumulation in different designs of AHU system in Shaanxi History Museum. *Building and Environment*, **2016**, 104, 232-242	6.5	15
83	Performance of smoke elimination and confinement with modified hybrid ventilation for subway station. *Tunnelling and Underground Space Technology*, **2014**, 43, 140-147	5.7	15
82	Field test and CFD modeling for flow characteristics in central cooking exhaust shaft of a high-rise residential building. *Energy and Buildings*, **2017**, 147, 210-223	7	14
81	PIV experiment and evaluation of air flow performance of swirl diffuser mounted on the floor. *Energy and Buildings*, **2017**, 156, 58-69	7	14
80	New optimized model for water temperature calculation of river-water source heat pump and its application in simulation of energy consumption. *Renewable Energy*, **2015**, 84, 65-73	8.1	14
79	Deposition of fine particles on vertical textile surfaces: A small-scale chamber study. *Building and Environment*, **2018**, 135, 308-317	6.5	14
78	A comparison study on melting inside the rectangular and curved unit with a vertical heating wall. *Journal of Thermal Analysis and Calorimetry*, **2015**, 122, 831-842	4.1	13
77	Experimental and numerical study on heavy gas contaminant dispersion and ventilation design for industrial buildings. *Sustainable Cities and Society*, **2020**, 55, 102016	10.1	13

76	Study on thermal stratification of an enclosure containing two interacting turbulent buoyant plumes of equal strength. *Building and Environment*, **2018**, 141, 236-246	6.5	13
75	A review of intensified conditioning of personal micro-environments: Moving closer to the human body. *Energy and Built Environment*, **2021**, 2, 260-270	6.3	13
74	On-site investigation of the concentration and size distribution characteristics of airborne fungi in a university library. *Environmental Pollution*, **2020**, 261, 114138	9.3	12
73	Effect of varying two key parameters in simulating evacuation for a dormitory in China. *Physica A: Statistical Mechanics and Its Applications*, **2013**, 392, 79-88	3.3	12
72	A new evaluation indicator of air distribution in buildings. *Sustainable Cities and Society*, **2020**, 53, 101836	10.1	11
71	Resistance reduction via guide vane in dividing manifold systems with parallel pipe arrays (DMS-PPA) based on analysis of energy dissipation. *Building and Environment*, **2018**, 139, 189-198	6.5	10
70	2D-PIV experiment analysis on the airflow performance of a floor-based air distribution with a novel mushroom diffuser (FBAD-MD). *Energy and Buildings*, **2016**, 121, 114-129	7	10
69	Capture and Containment Efficiency of the Exhaust Hood in a Typical Chinese Commercial Kitchen with Air Curtain Ventilation. *International Journal of Ventilation*, **2014**, 13, 221-234	1.1	10
68	Scale modeling experiments of fire-induced smoke and extraction via mechanical ventilation in an underground hydropower plant. *Sustainable Cities and Society*, **2019**, 44, 536-549	10.1	10
67	Study on Ventilation Effectiveness of Circular Column Attached Displacement Ventilation Mode. *Procedia Engineering*, **2017**, 205, 3511-3518		9
66	Effects of near-wall heat source on particle deposition. *Building Simulation*, **2012**, 5, 371-382	3.9	9
65	Optimization of outdoor design temperature for summer ventilation for undersea road tunnel using field measurement and statistics. *Building and Environment*, **2020**, 167, 106457	6.5	9
64	Comparative analysis of earth to air heat exchanger configurations based on uniformity and thermal performance. *Applied Thermal Engineering*, **2021**, 183, 116152	5.8	9
63	Estimation of building ventilation on the heat release rate of fire in a room. *Applied Thermal Engineering*, **2017**, 121, 1111-1116	5.8	8
62	Field comparison test study of external shading effect on thermal-optical performance of ultralow-energy buildings in cold regions of China. *Building and Environment*, **2020**, 180, 106926	6.5	8
61	Effect of the length ratio on thermal energy storage in wedge-shaped enclosures. *Journal of Thermal Analysis and Calorimetry*, **2014**, 117, 807-816	4.1	8
60	Experimental studies of mechanically exhausted smoke within the transport passage of the main transformer of an underground hydropower station. *Tunnelling and Underground Space Technology*, **2013**, 33, 111-118	5.7	8
59	Numerical investigation on particle deposition in a chamber with an attached-wall heat source. *Indoor and Built Environment*, **2014**, 23, 640-652	1.8	8

58	Modeling thermal and geometrical effects on non-condensable gas desorption in horizontal-tube bundles of falling film evaporation. *Desalination*, **2020**, 478, 114302	10.3	8
57	Buoyancy-driven ventilation of an enclosure containing a convective area heat source. *International Journal of Thermal Sciences*, **2021**, 159, 106551	4.1	8
56	Scaling model study of the air distribution in a powerhouse under different ventilation conditions. *Building Simulation*, **2014**, 7, 389-400	3.9	7
55	Analytical model for solar radiation transmitting the curved transparent surface of solar greenhouse. *Journal of Building Engineering*, **2020**, 32, 101785	5.2	7
54	A numerical study on the effect of column layout on air distribution and performance of column attachment ventilation. *Building Simulation*, **2021**, 14, 1095-1108	3.9	7
53	A novel approach for solar greenhouse air temperature and heating load prediction based on Laplace transform. *Journal of Building Engineering*, **2021**, 44, 102682	5.2	7
52	Attached ventilation based on a curved surface wall. *Building Simulation*, **2019**, 12, 505-515	3.9	6
51	Enhanced effects of footwarmer by wearing sandals in winter office: A Swedish case study. *Indoor and Built Environment*, **2020**, 1420326X2091397	1.8	6
50	Velocity distribution of wall-attached jets in slotted-inlet ventilated rooms. *Building and Environment*, **2021**, 194, 107708	6.5	6
49	Assessment of seasonal variations in concentration, particle-size distribution, and taxonomic composition of airborne fungi in a courtyard space. *Atmospheric Pollution Research*, **2021**, 12, 113-121	4.5	6
48	Indoor airflow interactions with symmetrical and asymmetrical heat load distributions under diffuse ceiling ventilation. *Science and Technology for the Built Environment*, **2019**, 25, 716-731	1.8	5
47	Prediction of carbon monoxide concentration and optimization of the smoke exhaust system in a busbar corridor. *Building Simulation*, **2014**, 7, 639-648	3.9	5
46	PIV Measurements of Air Distribution in a Reduced-Scale Model - Ventilation of a Busbar Corridor in a Hydropower Station. *International Journal of Ventilation*, **2013**, 12, 81-98	1.1	5
45	Effect of operational modes on the train-induced airflow and thermal environment in a subway station with full-height platform bailout doors. *Building and Environment*, **2021**, 194, 107671	6.5	5
44	Modelling of room air temperature profile with displacement ventilation. *International Journal of Ventilation*, **2020**, 19, 112-126	1.1	5
43	Adaptive wall-based attachment ventilation: A comparative study on its effectiveness in airborne infection isolation rooms with negative pressure. *Engineering*, **2021**, 8, 130-130	9.7	5
42	Comparative studies on isothermal attachment ventilation based on vertical walls, square and circular columns. *Energy and Buildings*, **2021**, 231, 110634	7	5
41	Interaction of the thermal plumes generated from two heat sources of equal strength in a naturally ventilated space. *Journal of Wind Engineering and Industrial Aerodynamics*, **2020**, 198, 104085	3.7	4

40	Smoke Confinement with Multi-Stream Air Curtain at Stairwell Entrance. *Procedia Engineering*, **2017**, 205, 337-344		4
39	Analysis of microclimate characteristics in solar greenhouses under natural ventilation. *Building Simulation*, **2021**, 14, 1811-1821	3.9	4
38	Radiation noise control of a 90° rectangular elbow in ventilation and air conditioning systems. *Journal of Building Engineering*, **2021**, 37, 102157	5.2	4
37	Performance evaluation by computational fluid dynamics modelling of the heavy gas dispersion with a low Froude number in a built environment. *Indoor and Built Environment*, **2020**, 29, 656-670	1.8	4
36	Research on optimization and design methods for air distribution system based on target values. *Building Simulation*, **2021**, 14, 721-735	3.9	4
35	Study on natural ventilation driven by a restricted turbulent buoyant plume in an enclosure. *Energy and Buildings*, **2018**, 177, 173-183	7	3
34	Study on the relationship between the CO2 concentration and pedestrian flow in a building evacuation passageway. *Indoor and Built Environment*, **2020**, 1420326X2094036	1.8	3
33	1:50 scale modeling study on airflow effectiveness of large spaces mutually connected for underground workshops. *Building Simulation*, **2016**, 9, 201-212	3.9	3
32	Research on a personalized targeted air supply device based on body movement capture. *Indoor Air*, **2021**, 31, 206-219	5.4	3
31	A novel convection and radiation combined terminal device: Its impact on occupant thermal comfort and cognitive performance in winter indoor environments. *Energy and Buildings*, **2021**, 246, 111123	7	3
30	Ventilation and environmental control of underground spaces: a short review. *E3S Web of Conferences*, **2019**, 111, 01039	0.5	2
29	Infection probability under different air distribution patterns. *Building and Environment*, **2021**, 207, 108565	6.5	2
28	Temporal variation of airborne fungi in university library rooms and its relation to environmental parameters and potential confounders. *Environmental Science and Pollution Research*, **2021**, 28, 14068-14079	5.1	2
27	Sensitivity analysis and prediction of shading effect of external Venetian blind for nearly zero-energy buildings in China. *Journal of Building Engineering*, **2021**, 41, 102401	5.2	2
26	Flow characteristics and structural parametric optimisation design of rectangular plenum chambers for HVAC systems. *Energy and Buildings*, **2021**, 246, 111112	7	2
25	Air distribution and thermal environment optimization on subway platform using an innovative attached ventilation mode. *Building and Environment*, **2021**, 204, 108226	6.5	2
24	Multi-objective air terminal of a household air conditioner based on the principle of central projection. *Energy and Buildings*, **2021**, 249, 111212	7	2
23	Determination of HVAC meteorological parameters for floating nuclear power stations (FNPSs) in the area of China sea and its vicinity. *Energy*, **2021**, 233, 121084	7.9	2

22	Probing the historic thermal and humid environment in a 2000-year-old ancient underground tomb and enlightenment for cultural heritage protection and preventive conservation. *Energy and Buildings*, **2021**, 251, 111388	7	2
21	A method to calculate wall heat fluxes of electrical equipments based on overdetermined linear equation. *Applied Thermal Engineering*, **2017**, 114, 428-435	5.8	1
20	A Numerical Investigation of Mechanical Smoke Exhaust in the Powerhouse of an Underground Hydropower Station. *Lecture Notes in Electrical Engineering*, **2014**, 211-222	0.2	1
19	Measurement of the Pollutants from Cooking Chinese Dishes. *Lecture Notes in Electrical Engineering* , **2014**, 193-201	0.2	1
18	Experimental study on the characteristics of entrained air during the particle flow fall process. *Powder Technology*, **2020**, 374, 421-429	5.2	1
17	Industrial ventilation design method **2020**, 19-37		1
16	Study on attached ventilation based on inclined walls. *Building Simulation*, **2021**, 14, 667-679	3.9	1
15	Effects of makeup air on atrium smoke conditions: A review. *Indoor and Built Environment*,1420326X211059591	3.9	1
14	Study on fire smoke control in evacuation passageways on the top floor of an atrium involving breathing zones combined with underfloor makeup air supplementation. *Safety Science*, **2022**, 153, 105807	5.8	1
13	Resistance reduction of an elbow with a guide vane based on the field synergy principle and viscous dissipation analysis. *Journal of Building Engineering*, **2022**, 104649	5.2	1
12	Seasonal structural characteristics of indoor airborne fungi in library rooms by culturing and high-throughput sequencing. *Building and Environment*, **2021**, 206, 108368	6.5	0
11	Analysis and optimization of air distribution and ventilation performance in a generator hall using an innovative attached air supply mode. *Building and Environment*, **2022**, 216, 108993	6.5	0
10	A novel type of unpowered air curtain at a tunnel portal to reduce the intrusion of cold air. *Building and Environment*, **2022**, 218, 109113	6.5	0
9	Numerical study of particle spatial distribution under column attachment ventilation. *Journal of Building Engineering*, **2022**, 53, 104599	5.2	0
8	Thermal Environment in Kitchen **2019**, 151-190		
7	Kitchen Ventilation Requirements **2019**, 33-59		
6	High-Performance Kitchen Ventilation **2019**, 253-329		
5	Pollutions of Cooking Oil Fume and Health Risks **2019**, 61-150		

List of Publications

4	Train-Induced Unsteady Airflow (TIUA) Characteristics in Subway Ventilation Network. *Environmental Science and Engineering*, **2020**, 1513-1521	0.2
3	Evaluation of Factors Toward Flow Distribution in the Dividing Manifold Systems with Parallel Pipe Arrays Using the Orthogonal Experiment Design. *Environmental Science and Engineering*, **2020**, 297-305	0.2
2	Natural ventilation driven by a restricted heat source elevated to different levels. *Building Simulation*, **2022**, 15, 281	3.9
1	Effects of Surface Properties of Vertical Textiles Indoors on Particle Deposition: A Small-scale Chamber Study. *Aerosol and Air Quality Research*, **2019**, 19, 885-895	4.6