

Angui Li

List of Publications by Year in descending order

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132
papers

2,743
citations

147566

31
h-index

276539

41
g-index

134
all docs

134
docs citations

134
times ranked

1404
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of pedestrian crowdsâ€™ evacuation in a huge transit terminal subway station. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 5355-5365.	1.2	88
2	Fire-induced smoke control via hybrid ventilation in a huge transit terminal subway station. <i>Energy and Buildings</i> , 2012, 45, 280-289.	3.1	74
3	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.	3.0	62
4	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.	2.0	62
5	Biomimetic duct tee for reducing the local resistance of a ventilation and air-conditioning system. <i>Building and Environment</i> , 2018, 129, 130-141.	3.0	59
6	An experiment and simulation of smoke confinement utilizing an air curtain. <i>Safety Science</i> , 2013, 59, 10-18.	2.6	53
7	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.	3.0	52
8	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.	4.3	52
9	Experimental study on airflow characteristics of a square column attached ventilation mode. <i>Building and Environment</i> , 2016, 109, 112-120.	3.0	51
10	Hood performance and capture efficiency of kitchens: A review. <i>Building and Environment</i> , 2019, 161, 106221.	3.0	50
11	Field test and analysis of microclimate in naturally ventilated single-sloped greenhouses. <i>Energy and Buildings</i> , 2017, 138, 479-489.	3.1	48
12	A novel targeted personalized ventilation system based on the shooting concept. <i>Building and Environment</i> , 2018, 135, 269-279.	3.0	48
13	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.	4.6	48
14	Measurement of temperature, relative humidity and concentrations of CO, CO ₂ and TVOC during cooking typical Chinese dishes. <i>Energy and Buildings</i> , 2014, 69, 544-561.	3.1	47
15	Study on thermal pressure in a sloping underground tunnel under natural ventilation. <i>Energy and Buildings</i> , 2017, 147, 200-209.	3.1	46
16	Measurement and evaluation of indoor air quality in naturally ventilated residential buildings. <i>Indoor and Built Environment</i> , 2019, 28, 1307-1323.	1.5	45
17	Extended Coanda Effect and attachment ventilation. <i>Indoor and Built Environment</i> , 2019, 28, 437-442.	1.5	43
18	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.	3.0	42

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19	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.	3.0	42
20	Simulating air distribution and occupants' thermal comfort of three ventilation schemes for subway platform. <i>Building and Environment</i> , 2017, 125, 15-25.	3.0	41
21	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.	3.0	41
22	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.	3.0	39
23	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.	4.4	37
24	Analyses of the improvement of subway station thermal environment in northern severe cold regions. <i>Building and Environment</i> , 2018, 143, 579-590.	3.0	37
25	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.	2.9	37
26	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.	3.0	36
27	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.	3.1	36
28	Smoke confinement utilizing the USME ventilation mode for subway station fire. <i>Safety Science</i> , 2014, 70, 202-210.	2.6	35
29	Infection probability under different air distribution patterns. <i>Building and Environment</i> , 2022, 207, 108555.	3.0	35
30	Ventilation for subway stations with adjustable platform doors created by train-induced unsteady airflow. <i>Building and Environment</i> , 2019, 152, 87-104.	3.0	34
31	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.	3.1	33
32	Study of a proposed tunnel evacuation passageway formed by opposite-double air curtain ventilation. <i>Safety Science</i> , 2012, 50, 1549-1557.	2.6	33
33	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.	5.1	33
34	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.	2.6	31
35	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.	3.1	31
36	A Novel Air Distribution Method - Principles of Air Curtain Ventilation. <i>International Journal of Ventilation</i> , 2012, 10, 383-390.	0.2	30

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37	A novel low-resistance duct tee emulating a river course. <i>Building and Environment</i> , 2018, 144, 295-304.	3.0	27
38	Experimental and numerical study on heavy gas contaminant dispersion and ventilation design for industrial buildings. <i>Sustainable Cities and Society</i> , 2020, 55, 102016.	5.1	27
39	An experimental study on particle deposition above near-wall heat source. <i>Building and Environment</i> , 2014, 81, 139-149.	3.0	26
40	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.	3.0	26
41	Field measurements, assessments and improvement of Kang: Case study in rural northwest China. <i>Energy and Buildings</i> , 2016, 111, 497-506.	3.1	26
42	How domes improve fire safety in subway stations. <i>Safety Science</i> , 2015, 80, 94-104.	2.6	24
43	On-site investigation of the concentration and size distribution characteristics of airborne fungi in a university library. <i>Environmental Pollution</i> , 2020, 261, 114138.	3.7	24
44	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.	3.1	23
45	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.	1.2	23
46	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.	1.5	23
47	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.	5.1	23
48	Experimental study and numerical simulation of evacuation from a dormitory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 5189-5196.	1.2	22
49	Experimental study on microorganism ecological distribution and contamination mechanism in supply air ducts. <i>Energy and Buildings</i> , 2012, 47, 497-505.	3.1	22
50	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.	3.0	22
51	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.	3.0	22
52	Performance of smoke elimination and confinement with modified hybrid ventilation for subway station. <i>Tunnelling and Underground Space Technology</i> , 2014, 43, 140-147.	3.0	21
53	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.	4.3	21
54	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.	3.0	21

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55	Comparative analysis of earth to air heat exchanger configurations based on uniformity and thermal performance. <i>Applied Thermal Engineering</i> , 2021, 183, 116152.	3.0	21
56	Air distribution and thermal environment optimization on subway platform using an innovative attached ventilation mode. <i>Building and Environment</i> , 2021, 204, 108226.	3.0	20
57	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.	1.2	19
58	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.	3.1	19
59	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.	3.0	19
60	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.	3.0	19
61	Analytical model for solar radiation transmitting the curved transparent surface of solar greenhouse. <i>Journal of Building Engineering</i> , 2020, 32, 101785.	1.6	19
62	Adaptive Wall-Based Attachment Ventilation: A Comparative Study on Its Effectiveness in Airborne Infection Isolation Rooms with Negative Pressure. <i>Engineering</i> , 2022, 8, 130-137.	3.2	19
63	PIV experiment and evaluation of air flow performance of swirl diffuser mounted on the floor. <i>Energy and Buildings</i> , 2017, 156, 58-69.	3.1	18
64	Deposition of fine particles on vertical textile surfaces: A small-scale chamber study. <i>Building and Environment</i> , 2018, 135, 308-317.	3.0	17
65	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.	3.0	17
66	Analysis of microclimate characteristics in solar greenhouses under natural ventilation. <i>Building Simulation</i> , 2021, 14, 1811-1821.	3.0	17
67	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.	2.0	16
68	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.	5.1	16
69	Velocity distribution of wall-attached jets in slotted-inlet ventilated rooms. <i>Building and Environment</i> , 2021, 194, 107708.	3.0	16
70	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.	1.6	16
71	A new evaluation indicator of air distribution in buildings. <i>Sustainable Cities and Society</i> , 2020, 53, 101836.	5.1	15
72	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.	3.1	14

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73	Study on Ventilation Effectiveness of Circular Column Attached Displacement Ventilation Mode. <i>Procedia Engineering</i> , 2017, 205, 3511-3518.	1.2	14
74	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.	3.0	14
75	Buoyancy-driven ventilation of an enclosure containing a convective area heat source. <i>International Journal of Thermal Sciences</i> , 2021, 159, 106551.	2.6	14
76	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, 111123.	3.1	14
77	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.	3.1	14
78	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.	1.7	13
79	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.	4.5	13
80	Comparative studies on isothermal attachment ventilation based on vertical walls, square and circular columns. <i>Energy and Buildings</i> , 2021, 231, 110634.	3.1	13
81	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.	0.2	12
82	Estimation of building ventilation on the heat release rate of fire in a room. <i>Applied Thermal Engineering</i> , 2017, 121, 1111-1116.	3.0	12
83	Effects of near-wall heat source on particle deposition. <i>Building Simulation</i> , 2012, 5, 371-382.	3.0	11
84	Attached ventilation based on a curved surface wall. <i>Building Simulation</i> , 2019, 12, 505-515.	3.0	11
85	Modeling thermal and geometrical effects on non-condensable gas desorption in horizontal-tube bundles of falling film evaporation. <i>Desalination</i> , 2020, 478, 114302.	4.0	11
86	Enhanced effects of footwarmer by wearing sandals in winter office: A Swedish case study. <i>Indoor and Built Environment</i> , 2021, 30, 875-885.	1.5	11
87	Flow characteristics and structural parametric optimisation design of rectangular plenum chambers for HVAC systems. <i>Energy and Buildings</i> , 2021, 246, 111112.	3.1	11
88	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.	3.0	10
89	Numerical investigation on particle deposition in a chamber with an attached-wall heat source. <i>Indoor and Built Environment</i> , 2014, 23, 640-652.	1.5	9
90	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.	3.0	9

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91	Scaling model study of the air distribution in a powerhouse under different ventilation conditions. <i>Building Simulation</i> , 2014, 7, 389-400.	3.0	8
92	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.	2.0	8
93	Prediction of carbon monoxide concentration and optimization of the smoke exhaust system in a busbar corridor. <i>Building Simulation</i> , 2014, 7, 639-648.	3.0	8
94	Experimental study on the characteristics of entrained air during the particle flow fall process. <i>Powder Technology</i> , 2020, 374, 421-429.	2.1	8
95	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.	1.8	8
96	Research on optimization and design methods for air distribution system based on target values. <i>Building Simulation</i> , 2021, 14, 721-735.	3.0	8
97	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.	1.6	8
98	Modelling of room air temperature profile with displacement ventilation. <i>International Journal of Ventilation</i> , 2020, 19, 112-126.	0.2	7
99	Radiation noise control of a 90° rectangular elbow in ventilation and air conditioning systems. <i>Journal of Building Engineering</i> , 2021, 37, 102157.	1.6	7
100	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.	0.2	6
101	1:50 scale modeling study on airflow effectiveness of large spaces mutually connected for underground workshops. <i>Building Simulation</i> , 2016, 9, 201-212.	3.0	6
102	Smoke Confinement with Multi-Stream Air Curtain at Stairwell Entrance. <i>Procedia Engineering</i> , 2017, 205, 337-344.	1.2	6
103	Study on natural ventilation driven by a restricted turbulent buoyant plume in an enclosure. <i>Energy and Buildings</i> , 2018, 177, 173-183.	3.1	6
104	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.	0.8	6
105	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.	1.5	6
106	Research on a personalized targeted air supply device based on body movement capture. <i>Indoor Air</i> , 2021, 31, 206-219.	2.0	6
107	Natural ventilation driven by a restricted heat source elevated to different levels. <i>Building Simulation</i> , 2022, 15, 281-289.	3.0	6
108	Multi-objective air terminal of a household air conditioner based on the principle of central projection. <i>Energy and Buildings</i> , 2021, 249, 111212.	3.1	6

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109	Seasonal structural characteristics of indoor airborne fungi in library rooms by culturing and high-throughput sequencing. <i>Building and Environment</i> , 2021, 206, 108368.	3.0	6
110	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.	2.7	5
111	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.	3.0	5
112	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.	0.9	4
113	Study on the relationship between the CO ₂ concentration and pedestrian flow in a building evacuation passageway. <i>Indoor and Built Environment</i> , 2021, 30, 1411-1428.	1.5	4
114	Numerical study of particle spatial distribution under column attachment ventilation. <i>Journal of Building Engineering</i> , 2022, 53, 104599.	1.6	4
115	Ventilation and environmental control of underground spaces: a short review. <i>E3S Web of Conferences</i> , 2019, 111, 01039.	0.2	3
116	Industrial ventilation design method. , 2020, , 19-37.		3
117	Study on attached ventilation based on inclined walls. <i>Building Simulation</i> , 2021, 14, 667-679.	3.0	3
118	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.	3.0	3
119	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, 54, 104649.	1.6	3
120	Mechanical Smoke Exhaust in Underground Transport Passage of Hydropower Station. <i>TELKOMNIKA Indonesian Journal of Electrical Engineering</i> , 2012, 10, .	0.1	2
121	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.	2.6	2
122	A method to calculate wall heat fluxes of electrical equipments based on overdetermined linear equation. <i>Applied Thermal Engineering</i> , 2017, 114, 428-435.	3.0	1
123	Kitchen Pollutants Control and Ventilation. , 2019, , .		1
124	Effects of makeup air on atrium smoke conditions: A review. <i>Indoor and Built Environment</i> , 0, , 1420326X2110591.	1.5	1
125	A Research on Change Law of Concentration of PM10 in an Air-Conditioning Room. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	0
126	Correlation between Indoor Air Distribution and Pollutants in Natural Ventilation. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	0

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127	Thermal Environment in Kitchen. , 2019, , 151-190.		0
128	Kitchen Ventilation Requirements. , 2019, , 33-59.		0
129	High-Performance Kitchen Ventilation. , 2019, , 253-329.		0
130	Pollutions of Cooking Oil Fume and Health Risks. , 2019, , 61-150.		0
131	Train-Induced Unsteady Airflow (TIUA) Characteristics in Subway Ventilation Network. Environmental Science and Engineering, 2020, , 1513-1521.	0.1	0
132	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.	0.1	0