

Xudong Yang

List of Publications by Citations

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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.

102
papers

2,278
citations

28
h-index

42
g-index

103
ext. papers

2,829
ext. citations

7.2
avg, IF

5.54
L-index

#	Paper	IF	Citations
102	Change in household fuels dominates the decrease in PM exposure and premature mortality in China in 2005-2015. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12401-12406	11.5	175
101	Seasonal variation in outdoor, indoor, and personal air pollution exposures of women using wood stoves in the Tibetan Plateau: Baseline assessment for an energy intervention study. <i>Environment International</i> , 2016 , 94, 449-457	12.9	79
100	Energy and environment in Chinese rural buildings: Situations, challenges, and intervention strategies. <i>Building and Environment</i> , 2015 , 91, 271-282	6.5	78
99	Pollutant emissions and energy efficiency of Chinese gasifier cooking stoves and implications for future intervention studies. <i>Environmental Science & Technology</i> , 2014 , 48, 6461-7	10.3	78
98	Study on a new correlation between diffusion coefficient and temperature in porous building materials. <i>Atmospheric Environment</i> , 2009 , 43, 2080-2083	5.3	74
97	Long-Term Formaldehyde Emissions from Medium-Density Fiberboard in a Full-Scale Experimental Room: Emission Characteristics and the Effects of Temperature and Humidity. <i>Environmental Science & Technology</i> , 2015 , 49, 10349-56	10.3	71
96	Design and optimization of a solar air heater with offset strip fin absorber plate. <i>Applied Energy</i> , 2014 , 113, 1349-1362	10.7	63
95	A feasibility study of the association of exposure to biomass smoke with vascular function, inflammation, and cellular aging. <i>Environmental Research</i> , 2014 , 135, 165-72	7.9	58
94	Seasonal and Diurnal Air Pollution from Residential Cooking and Space Heating in the Eastern Tibetan Plateau. <i>Environmental Science & Technology</i> , 2016 , 50, 8353-61	10.3	50
93	Measurements of volatile organic compounds in aircraft cabins. Part I: Methodology and detected VOC species in 107 commercial flights. <i>Building and Environment</i> , 2014 , 72, 154-161	6.5	44
92	Household transitions to clean energy in a multiprovincial cohort study in China. <i>Nature Sustainability</i> , 2020 , 3, 42-50	22.1	44
91	The combined effects of temperature and humidity on initial emittable formaldehyde concentration of a medium-density fiberboard. <i>Building and Environment</i> , 2016 , 98, 80-88	6.5	43
90	Household air pollution and measures of blood pressure, arterial stiffness and central haemodynamics. <i>Heart</i> , 2018 , 104, 1515-1521	5.1	41
89	The oxidative potential of PM _{2.5} exposures from indoor and outdoor sources in rural China. <i>Science of the Total Environment</i> , 2016 , 571, 1477-89	10.2	40
88	Chemical composition and source apportionment of ambient, household, and personal exposures to PM in communities using biomass stoves in rural China. <i>Science of the Total Environment</i> , 2019 , 646, 309-319	10.2	38
87	Carbon nanotubes / activated carbon fiber based air filter media for simultaneous removal of particulate matter and ozone. <i>Building and Environment</i> , 2017 , 125, 60-66	6.5	38
86	Impacts of stove use patterns and outdoor air quality on household air pollution and cardiovascular mortality in southwestern China. <i>Environment International</i> , 2018 , 117, 116-124	12.9	37

85	Experimental analysis on thermal performance of a solar air collector with a single pass. <i>Building and Environment</i> , 2012 , 56, 361-369	6.5	37
84	Enhancement of formaldehyde removal by activated carbon fiber via in situ growth of carbon nanotubes. <i>Building and Environment</i> , 2017 , 126, 27-33	6.5	35
83	Source apportionment of volatile organic compounds (VOCs) in aircraft cabins. <i>Building and Environment</i> , 2014 , 81, 1-6	6.5	35
82	Indoor formaldehyde in real buildings: Emission source identification, overall emission rate estimation, concentration increase and decay patterns. <i>Building and Environment</i> , 2013 , 69, 114-120	6.5	35
81	The effect of humidity on formaldehyde emission parameters of a medium-density fiberboard: Experimental observations and correlations. <i>Building and Environment</i> , 2016 , 101, 110-115	6.5	33
80	Long-term concentrations of volatile organic compounds in a new apartment in Beijing, China. <i>Building and Environment</i> , 2014 , 82, 693-701	6.5	31
79	The impact of household cooking and heating with solid fuels on ambient PM 2.5 in peri-urban Beijing. <i>Atmospheric Environment</i> , 2017 , 165, 62-72	5.3	30
78	Volatile organic compounds (VOCs) formation due to interactions between ozone and skin-oiled clothing: Measurements by extraction-analysis-reaction method. <i>Building and Environment</i> , 2016 , 103, 146-154	6.5	30
77	Development of Renewable, Densified Biomass for Household Energy in China. <i>Energy for Sustainable Development</i> , 2018 , 46, 42-52	5.4	29
76	Identification of species and sources of atmospheric chromophores by fluorescence excitation-emission matrix with parallel factor analysis. <i>Science of the Total Environment</i> , 2020 , 718, 137322 ^{10,2}	10.2	28
75	Volatile organic compounds in different interior construction stages of an apartment. <i>Building and Environment</i> , 2014 , 81, 380-387	6.5	28
74	Source apportionment of airborne particles in commercial aircraft cabin environment: Contributions from outside and inside of cabin. <i>Atmospheric Environment</i> , 2014 , 89, 119-128	5.3	27
73	Dynamic thermal performance prediction model for the flat-plate solar collectors based on the two-node lumped heat capacitance method. <i>Solar Energy</i> , 2016 , 135, 769-779	6.8	27
72	Human breath as a source of VOCs in the built environment, Part II: Concentration levels, emission rates and factor analysis. <i>Building and Environment</i> , 2017 , 123, 437-445	6.5	26
71	The impact of cookstove operation on PM and CO emissions: A comparison of laboratory and field measurements. <i>Environmental Pollution</i> , 2018 , 243, 1087-1095	9.3	26
70	Volatile organic compounds in aircraft cabin: Measurements and correlations between compounds. <i>Building and Environment</i> , 2014 , 78, 89-94	6.5	25
69	A new Chinese solar kang and its dynamic heat transfer model. <i>Energy and Buildings</i> , 2013 , 62, 539-549	7	25
68	Mathematical model development and optimal design of the horizontal all-glass evacuated tube solar collectors integrated with bottom mirror reflectors for solar energy harvesting. <i>Applied Energy</i> , 2019 , 238, 54-68	10.7	24

67	Energy and environmental impact assessment of straw return and substitution of straw briquettes for heating coal in rural China. <i>Energy Policy</i> , 2019 , 128, 654-664	7.2	24
66	A user-centered, iterative engineering approach for advanced biomass cookstove design and development. <i>Environmental Research Letters</i> , 2017 , 12, 095009	6.2	24
65	A dynamic thermal performance model for flat-plate solar collectors based on the thermal inertia correction of the steady-state test method. <i>Renewable Energy</i> , 2015 , 76, 679-686	8.1	24
64	Person to person droplets transmission characteristics in unidirectional ventilated protective isolation room: The impact of initial droplet size. <i>Building Simulation</i> , 2016 , 9, 597-606	3.9	23
63	Effectiveness of a Household Energy Package in Improving Indoor Air Quality and Reducing Personal Exposures in Rural China. <i>Environmental Science & Technology</i> , 2019 , 53, 9306-9316	10.3	22
62	Estimation of the contribution of human skin and ozone reaction to volatile organic compounds (VOC) concentration in aircraft cabins. <i>Building and Environment</i> , 2015 , 94, 12-20	6.5	22
61	Re-thinking china's densified biomass fuel policies: Large or small scale?. <i>Energy Policy</i> , 2016 , 93, 119-126	7.2	22
60	Measurements of volatile organic compounds in aircraft cabins. Part II: Target list, concentration levels and possible influencing factors. <i>Building and Environment</i> , 2014 , 75, 170-175	6.5	22
59	Energy and environment in Chinese rural housing: Current status and future perspective. <i>Frontiers of Energy and Power Engineering in China</i> , 2010 , 4, 35-46		22
58	Measuring whole-body volatile organic compound emission by humans: A pilot study using an air-tight environmental chamber. <i>Building and Environment</i> , 2019 , 153, 101-109	6.5	21
57	Removal of Ozone by Carbon Nanotubes/Quartz Fiber Film. <i>Environmental Science & Technology</i> , 2016 , 50, 9592-8	10.3	21
56	A new Chinese Kang with forced convection: System design and thermal performance measurements. <i>Energy and Buildings</i> , 2014 , 85, 410-415	7	21
55	Human breath as a source of VOCs in the built environment, Part I: A method for sampling and detection species. <i>Building and Environment</i> , 2017 , 125, 565-573	6.5	20
54	Modeling volatile organic compound (VOC) concentrations due to material emissions in a real residential unit. Part I: Methodology and a preliminary case study. <i>Building Simulation</i> , 2012 , 5, 351-357	3.9	19
53	Differences in chemical composition of PM emissions from traditional versus advanced combustion (semi-gasifier) solid fuel stoves. <i>Chemosphere</i> , 2019 , 233, 852-861	8.4	18
52	Air pollutant emission factors of solid fuel stoves and estimated emission amounts in rural Beijing. <i>Environment International</i> , 2020 , 138, 105608	12.9	18
51	Thermal analysis of a new solar kang system. <i>Energy and Buildings</i> , 2014 , 75, 531-537	7	18
50	Techno-economic performances of clean heating solutions to replace raw coal for heating in Northern rural China. <i>Energy and Buildings</i> , 2021 , 240, 110881	7	18

49	Analysis on the optimum matching of collector and storage size of solar water heating systems in building space heating applications. <i>Building Simulation</i> , 2018 , 11, 549-560	3.9	17
48	Performance of sorption-based portable air cleaners in formaldehyde removal: Laboratory tests and field verification. <i>Building and Environment</i> , 2018 , 136, 177-184	6.5	17
47	Large-scale living laboratory of seasonal borehole thermal energy storage system for urban district heating. <i>Applied Energy</i> , 2020 , 264, 114763	10.7	15
46	Occupant control patterns of low temperature air-to-air heat pumps in Chinese rural households based on field measurements. <i>Energy and Buildings</i> , 2017 , 154, 157-165	7	15
45	Net in-cabin emission rates of VOCs and contributions from outside and inside the aircraft cabin. <i>Atmospheric Environment</i> , 2015 , 111, 1-9	5.3	14
44	On regression method to obtain emission parameters of building materials. <i>Building and Environment</i> , 2005 , 40, 1282-1287	6.5	14
43	Situations and challenges of household energy consumption in Chinese small towns. <i>Energy and Buildings</i> , 2015 , 107, 155-162	7	13
42	Longitudinal evaluation of a household energy package on blood pressure, central hemodynamics, and arterial stiffness in China. <i>Environmental Research</i> , 2019 , 177, 108592	7.9	12
41	Characterizing dynamic relationships between burning rate and pollutant emission rates in a forced-draft gasifier stove consuming biomass pellet fuels. <i>Environmental Pollution</i> , 2019 , 255, 113338	9.3	12
40	Advanced household heat pumps for air pollution control: A pilot field study in Ulaanbaatar, the coldest capital city in the world. <i>Environmental Research</i> , 2019 , 176, 108381	7.9	11
39	A one-dimensional VOC emission model of moisture-dominated cure adhesives. <i>Building and Environment</i> , 2019 , 156, 171-177	6.5	11
38	A central solar-industrial waste heat heating system with large scale borehole thermal storage. <i>Procedia Engineering</i> , 2017 , 205, 1584-1591		11
37	Long-term performance simulation and sensitivity analysis of a large-scale seasonal borehole thermal energy storage system for industrial waste heat and solar energy. <i>Energy and Buildings</i> , 2021 , 236, 110768	7	11
36	Human respiratory system as sink for volatile organic compounds: Evidence from field measurements. <i>Indoor Air</i> , 2019 , 29, 968-978	5.4	10
35	Long-life type \square The dominant fraction of EPFRs in combustion sources and ambient fine particles in Xi'an. <i>Atmospheric Environment</i> , 2019 , 219, 117059	5.3	10
34	ExposureResponse Associations of Household Air Pollution and Buccal Cell Telomere Length in Women Using Biomass Stoves. <i>Environmental Health Perspectives</i> , 2019 , 127, 87004	8.4	9
33	Source apportionment of volatile organic compounds (VOCs) in vehicle cabins diffusing from interior materials. Part I: Measurements of VOCs in new cars in China. <i>Building and Environment</i> , 2020 , 175, 106796	6.5	8
32	Thermal performance of a traditional Chinese heated wall with the in-series flow pass: Experiment and modeling. <i>Energy and Buildings</i> , 2014 , 84, 46-54	7	8

31	Carbon dioxide in passenger cabins: Spatial temporal characteristics and 30-year trends. <i>Indoor Air</i> , 2021 , 31, 2200-2212	5.4	8
30	Real-time combustion rate of wood charcoal in the heating fire basin: Direct measurement and its correlation to CO emissions. <i>Environmental Pollution</i> , 2019 , 245, 38-45	9.3	8
29	Study on the thermodynamic characteristic matching property and limit design principle of general flat plate solar air collectors (FPSACs). <i>Building Simulation</i> , 2016 , 9, 529-540	3.9	7
28	Emissions of volatile organic compounds from interior materials of vehicles. <i>Building and Environment</i> , 2020 , 170, 106599	6.5	7
27	An experimental method for measuring VOC emissions from individual human whole-body skin under controlled conditions. <i>Building and Environment</i> , 2020 , 181, 107137	6.5	7
26	A field experimental study on non-methane hydrocarbon (NMHC) emissions from a straw-retained maize cropping system. <i>Science of the Total Environment</i> , 2018 , 636, 530-538	10.2	7
25	Impacts of stove/fuel use and outdoor air pollution on chemical composition of household particulate matter. <i>Indoor Air</i> , 2020 , 30, 294-305	5.4	6
24	A predictive model for the formaldehyde removal performance of sorption-based portable air cleaners with pleated composite filter. <i>Building and Environment</i> , 2019 , 147, 517-527	6.5	5
23	A test-based method for estimating the service life of adsorptive portable air cleaners in removing indoor formaldehyde. <i>Building and Environment</i> , 2019 , 154, 89-96	6.5	4
22	Identification of key volatile organic compounds in aircraft cabins and associated inhalation health risks.. <i>Environment International</i> , 2022 , 158, 106999	12.9	4
21	Measurement of Personal Experienced Temperature Variations in Rural Households Using Wearable Monitors: A Pilot Study. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	4
20	Development of a physics-based model for analyzing formaldehyde emissions from building material under coupling effects of temperature and humidity. <i>Building and Environment</i> , 2021 , 203, 108078	6.5	4
19	Improving material selection for residences using volatile organic compound simulation at design stage: Field verifications from a unique case study. <i>Building and Environment</i> , 2019 , 157, 277-283	6.5	3
18	Thermal and energy analysis of a Chinese kang. <i>Frontiers of Energy and Power Engineering in China</i> , 2010 , 4, 84-92		3
17	Low-grade industrial waste heat utilization in urban district heating: Simulation-based performance assessment of a seasonal thermal energy storage system. <i>Energy</i> , 2021 , 239, 122345	7.9	3
16	Long-term volatile organic compound emission rates in a new electric vehicle: Influence of temperature and vehicle age. <i>Building and Environment</i> , 2020 , 168, 106465	6.5	3
15	Influencing factors of carbonyl compounds and other VOCs in commercial airliner cabins: On-board investigation of 56 flights. <i>Indoor Air</i> , 2021 , 31, 2084-2098	5.4	3
14	Investigating energy performance of large-scale seasonal storage in the district heating system of chifeng city: Measurements and model-based analysis of operation strategies. <i>Energy and Buildings</i> , 2021 , 247, 111113	7	3

13	Effect of straw incorporation on aldehyde emissions from a maize cropping system: A field experiment. <i>Atmospheric Environment</i> , 2018 , 189, 116-124	5.3	2
12	Entransy analysis on the thermal performance of flat plate solar air collectors. <i>Building Simulation</i> , 2017 , 10, 193-202	3.9	2
11	Inhibitory effect of mould growth on formaldehyde emissions from medium-density fibreboards: Evidence from field observations in three experimental houses. <i>Indoor and Built Environment</i> , 2019 , 28, 999-1010	1.8	1
10	Occupants' on-demand control of individual heating devices in rural residential buildings: An experimental scheme and on-site study. <i>Energy and Buildings</i> , 2022 , 259, 111862	7	1
9	Chemical Investigation of Household Solid Fuel Use and Outdoor Air Pollution Contributions to Personal PM Exposures. <i>Environmental Science & Technology</i> , 2021 , 55, 15969-15979	10.3	1
8	The role of simulation in preventing indoor air pollution: a foregone conclusion?. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 022005	0.4	1
7	Interactions between the Built Environment and the Energy-Related Behaviors of Occupants in Government Office Buildings. <i>Sustainability</i> , 2021 , 13, 10607	3.6	1
6	The impact of oxygen content in the primary air supply on fuel burning rate and pollutant emissions in a forced-draft biomass stove. <i>Fuel</i> , 2022 , 321, 124129	7.1	1
5	Pollutant emission performances of improved solid fuel heating stoves and future implications in rural China. <i>Energy and Buildings</i> , 2022 , 257, 111810	7	0
4	An inversion method to estimate the thermal properties of heterogeneous soil for a large-scale borehole thermal energy storage system. <i>Energy and Buildings</i> , 2022 , 263, 112045	7	0
3	A study on human perception in aircraft cabins and its association with volatile organic compounds. <i>Building and Environment</i> , 2022 , 109167	6.5	0
2	Research on the influence of coal to electric heating on regional power grid in Northern China. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 052041	0.4	
1	Simulation for Indoor Air Quality Control 2022 , 1-40		