

# Xudong Yang

## List of Publications by Year in Descending Order

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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 | Occupants on-demand control of individual heating devices in rural residential buildings: An experimental scheme and on-site study. <i>Energy and Buildings</i> , <b>2022</b> , 259, 111862   | 7    | 1         |
| 101 | Identification of key volatile organic compounds in aircraft cabins and associated inhalation health risks.. <i>Environment International</i> , <b>2022</b> , 158, 106999   | 12.9 | 4         |
| 100 | Pollutant emission performances of improved solid fuel heating stoves and future implications in rural China. <i>Energy and Buildings</i> , <b>2022</b> , 257, 111810   | 7    | 0         |
| 99  | 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> , <b>2022</b> , 263, 112045  | 7    | 0         |
| 98  | 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> , <b>2022</b> , 321, 124129  | 7.1  | 1         |
| 97  | Simulation for Indoor Air Quality Control <b>2022</b> , 1-40  |      |           |
| 96  | A study on human perception in aircraft cabins and its association with volatile organic compounds. <i>Building and Environment</i> , <b>2022</b> , 109167  | 6.5  | 0         |
| 95  | Chemical Investigation of Household Solid Fuel Use and Outdoor Air Pollution Contributions to Personal PM Exposures. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 15969-15979                                      | 10.3 | 1         |
| 94  | Low-grade industrial waste heat utilization in urban district heating: Simulation-based performance assessment of a seasonal thermal energy storage system. <i>Energy</i> , <b>2021</b> , 239, 122345                                   | 7.9  | 3         |
| 93  | 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> , <b>2021</b> , 236, 110768          | 7    | 11        |
| 92  | Carbon dioxide in passenger cabins: Spatial temporal characteristics and 30-year trends. <i>Indoor Air</i> , <b>2021</b> , 31, 2200-2212  | 5.4  | 8         |
| 91  | Techno-economic performances of clean heating solutions to replace raw coal for heating in Northern rural China. <i>Energy and Buildings</i> , <b>2021</b> , 240, 110881  | 7    | 18        |
| 90  | Influencing factors of carbonyl compounds and other VOCs in commercial airliner cabins: On-board investigation of 56 flights. <i>Indoor Air</i> , <b>2021</b> , 31, 2084-2098   | 5.4  | 3         |
| 89  | Interactions between the Built Environment and the Energy-Related Behaviors of Occupants in Government Office Buildings. <i>Sustainability</i> , <b>2021</b> , 13, 10607  | 3.6  | 1         |
| 88  | 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> , <b>2021</b> , 247, 111113 | 7    | 3         |
| 87  | 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> , <b>2021</b> , 203, 108078                        | 6.5  | 4         |
| 86  | Air pollutant emission factors of solid fuel stoves and estimated emission amounts in rural Beijing. <i>Environment International</i> , <b>2020</b> , 138, 105608   | 12.9 | 18        |

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| 85 | Large-scale living laboratory of seasonal borehole thermal energy storage system for urban district heating. <i>Applied Energy</i> , <b>2020</b> , 264, 114763   | 10.7 | 15 |
| 84 | Identification of species and sources of atmospheric chromophores by fluorescence excitation-emission matrix with parallel factor analysis. <i>Science of the Total Environment</i> , <b>2020</b> , 718, 137322                      | 10.2 | 28 |
| 83 | 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> , <b>2020</b> , 175, 106796        | 6.5  | 8  |
| 82 | Impacts of stove/fuel use and outdoor air pollution on chemical composition of household particulate matter. <i>Indoor Air</i> , <b>2020</b> , 30, 294-305   | 5.4  | 6  |
| 81 | Emissions of volatile organic compounds from interior materials of vehicles. <i>Building and Environment</i> , <b>2020</b> , 170, 106599   | 6.5  | 7  |
| 80 | Long-term volatile organic compound emission rates in a new electric vehicle: Influence of temperature and vehicle age. <i>Building and Environment</i> , <b>2020</b> , 168, 106465  | 6.5  | 3  |
| 79 | Household transitions to clean energy in a multiprovincial cohort study in China. <i>Nature Sustainability</i> , <b>2020</b> , 3, 42-50  | 22.1 | 44 |
| 78 | 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> , <b>2020</b> , 17,                  | 4.6  | 4  |
| 77 | An experimental method for measuring VOC emissions from individual human whole-body skin under controlled conditions. <i>Building and Environment</i> , <b>2020</b> , 181, 107137  | 6.5  | 7  |
| 76 | 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> , <b>2019</b> , 238, 54-68 | 10.7 | 24 |
| 75 | Effectiveness of a Household Energy Package in Improving Indoor Air Quality and Reducing Personal Exposures in Rural China. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 9306-9316                              | 10.3 | 22 |
| 74 | Differences in chemical composition of PM emissions from traditional versus advanced combustion (semi-gasifier) solid fuel stoves. <i>Chemosphere</i> , <b>2019</b> , 233, 852-861   | 8.4  | 18 |
| 73 | 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> , <b>2019</b> , 176, 108381  | 7.9  | 11 |
| 72 | 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> , <b>2019</b> , 28, 999-1010         | 1.8  | 1  |
| 71 | 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> , <b>2019</b> , 157, 277-283                   | 6.5  | 3  |
| 70 | A test-based method for estimating the service life of adsorptive portable air cleaners in removing indoor formaldehyde. <i>Building and Environment</i> , <b>2019</b> , 154, 89-96  | 6.5  | 4  |
| 69 | Energy and environmental impact assessment of straw return and substitution of straw briquettes for heating coal in rural China. <i>Energy Policy</i> , <b>2019</b> , 128, 654-664   | 7.2  | 24 |
| 68 | A one-dimensional VOC emission model of moisture-dominated cure adhesives. <i>Building and Environment</i> , <b>2019</b> , 156, 171-177  | 6.5  | 11 |

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| 67 | Measuring whole-body volatile organic compound emission by humans: A pilot study using an air-tight environmental chamber. <i>Building and Environment</i> , <b>2019</b> , 153, 101-109  | 6.5  | 21  |
| 66 | 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> , <b>2019</b> , 646, 309-319             | 10.2 | 38  |
| 65 | Exposure-Response Associations of Household Air Pollution and Buccal Cell Telomere Length in Women Using Biomass Stoves. <i>Environmental Health Perspectives</i> , <b>2019</b> , 127, 87004   | 8.4  | 9   |
| 64 | Longitudinal evaluation of a household energy package on blood pressure, central hemodynamics, and arterial stiffness in China. <i>Environmental Research</i> , <b>2019</b> , 177, 108592  | 7.9  | 12  |
| 63 | Characterizing dynamic relationships between burning rate and pollutant emission rates in a forced-draft gasifier stove consuming biomass pellet fuels. <i>Environmental Pollution</i> , <b>2019</b> , 255, 113338                     | 9.3  | 12  |
| 62 | Human respiratory system as sink for volatile organic compounds: Evidence from field measurements. <i>Indoor Air</i> , <b>2019</b> , 29, 968-978   | 5.4  | 10  |
| 61 | The role of simulation in preventing indoor air pollution: a foregone conclusion?. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 609, 022005   | 0.4  | 1   |
| 60 | 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> , <b>2019</b> , 609, 052041  | 0.4  |     |
| 59 | Long-life type □The dominant fraction of EPFRs in combustion sources and ambient fine particles in Xi'an. <i>Atmospheric Environment</i> , <b>2019</b> , 219, 117059   | 5.3  | 10  |
| 58 | A predictive model for the formaldehyde removal performance of sorption-based portable air cleaners with pleated composite filter. <i>Building and Environment</i> , <b>2019</b> , 147, 517-527  | 6.5  | 5   |
| 57 | Real-time combustion rate of wood charcoal in the heating fire basin: Direct measurement and its correlation to CO emissions. <i>Environmental Pollution</i> , <b>2019</b> , 245, 38-45  | 9.3  | 8   |
| 56 | Analysis on the optimum matching of collector and storage size of solar water heating systems in building space heating applications. <i>Building Simulation</i> , <b>2018</b> , 11, 549-560   | 3.9  | 17  |
| 55 | Household air pollution and measures of blood pressure, arterial stiffness and central haemodynamics. <i>Heart</i> , <b>2018</b> , 104, 1515-1521  | 5.1  | 41  |
| 54 | Impacts of stove use patterns and outdoor air quality on household air pollution and cardiovascular mortality in southwestern China. <i>Environment International</i> , <b>2018</b> , 117, 116-124                                     | 12.9 | 37  |
| 53 | Performance of sorption-based portable air cleaners in formaldehyde removal: Laboratory tests and field verification. <i>Building and Environment</i> , <b>2018</b> , 136, 177-184   | 6.5  | 17  |
| 52 | Effect of straw incorporation on aldehyde emissions from a maize cropping system: A field experiment. <i>Atmospheric Environment</i> , <b>2018</b> , 189, 116-124  | 5.3  | 2   |
| 51 | Development of Renewable, Densified Biomass for Household Energy in China. <i>Energy for Sustainable Development</i> , <b>2018</b> , 46, 42-52   | 5.4  | 29  |
| 50 | 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> , <b>2018</b> , 115, 12401-12406 | 11.5 | 175 |

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| 49 | The impact of cookstove operation on PM and CO emissions: A comparison of laboratory and field measurements. <i>Environmental Pollution</i> , <b>2018</b> , 243, 1087-1095  | 9.3  | 26 |
| 48 | A field experimental study on non-methane hydrocarbon (NMHC) emissions from a straw-retained maize cropping system. <i>Science of the Total Environment</i> , <b>2018</b> , 636, 530-538  | 10.2 | 7  |
| 47 | The impact of household cooking and heating with solid fuels on ambient PM 2.5 in peri-urban Beijing. <i>Atmospheric Environment</i> , <b>2017</b> , 165, 62-72   | 5.3  | 30 |
| 46 | Enhancement of formaldehyde removal by activated carbon fiber via in situ growth of carbon nanotubes. <i>Building and Environment</i> , <b>2017</b> , 126, 27-33  | 6.5  | 35 |
| 45 | Carbon nanotubes / activated carbon fiber based air filter media for simultaneous removal of particulate matter and ozone. <i>Building and Environment</i> , <b>2017</b> , 125, 60-66   | 6.5  | 38 |
| 44 | A user-centered, iterative engineering approach for advanced biomass cookstove design and development. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 095009   | 6.2  | 24 |
| 43 | Occupant control patterns of low temperature air-to-air heat pumps in Chinese rural households based on field measurements. <i>Energy and Buildings</i> , <b>2017</b> , 154, 157-165  | 7    | 15 |
| 42 | 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> , <b>2017</b> , 123, 437-445  | 6.5  | 26 |
| 41 | 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> , <b>2017</b> , 125, 565-573  | 6.5  | 20 |
| 40 | Entransy analysis on the thermal performance of flat plate solar air collectors. <i>Building Simulation</i> , <b>2017</b> , 10, 193-202   | 3.9  | 2  |
| 39 | A central solar-industrial waste heat heating system with large scale borehole thermal storage. <i>Procedia Engineering</i> , <b>2017</b> , 205, 1584-1591  |      | 11 |
| 38 | Removal of Ozone by Carbon Nanotubes/Quartz Fiber Film. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 9592-8  | 10.3 | 21 |
| 37 | The oxidative potential of PM2.5 exposures from indoor and outdoor sources in rural China. <i>Science of the Total Environment</i> , <b>2016</b> , 571, 1477-89   | 10.2 | 40 |
| 36 | Study on the thermodynamic characteristic matching property and limit design principle of general flat plate solar air collectors (FPSACs). <i>Building Simulation</i> , <b>2016</b> , 9, 529-540   | 3.9  | 7  |
| 35 | 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> , <b>2016</b> , 94, 449-457 | 12.9 | 79 |
| 34 | 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> , <b>2016</b> , 103, 146-154                          | 6.5  | 30 |
| 33 | Seasonal and Diurnal Air Pollution from Residential Cooking and Space Heating in the Eastern Tibetan Plateau. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 8353-61   | 10.3 | 50 |
| 32 | Re-thinking china's densified biomass fuel policies: Large or small scale?. <i>Energy Policy</i> , <b>2016</b> , 93, 119-126  | 7.2  | 22 |

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|----|---|------|----|
| 31 | The combined effects of temperature and humidity on initial emittable formaldehyde concentration of a medium-density fiberboard. <i>Building and Environment</i> , <b>2016</b> , 98, 80-88  | 6.5  | 43 |
| 30 | Dynamic thermal performance prediction model for the flat-plate solar collectors based on the two-node lumped heat capacitance method. <i>Solar Energy</i> , <b>2016</b> , 135, 769-779   | 6.8  | 27 |
| 29 | Person to person droplets transmission characteristics in unidirectional ventilated protective isolation room: The impact of initial droplet size. <i>Building Simulation</i> , <b>2016</b> , 9, 597-606  | 3.9  | 23 |
| 28 | The effect of humidity on formaldehyde emission parameters of a medium-density fiberboard: Experimental observations and correlations. <i>Building and Environment</i> , <b>2016</b> , 101, 110-115   | 6.5  | 33 |
| 27 | Energy and environment in Chinese rural buildings: Situations, challenges, and intervention strategies. <i>Building and Environment</i> , <b>2015</b> , 91, 271-282   | 6.5  | 78 |
| 26 | Net in-cabin emission rates of VOCs and contributions from outside and inside the aircraft cabin. <i>Atmospheric Environment</i> , <b>2015</b> , 111, 1-9   | 5.3  | 14 |
| 25 | Situations and challenges of household energy consumption in Chinese small towns. <i>Energy and Buildings</i> , <b>2015</b> , 107, 155-162  | 7    | 13 |
| 24 | Estimation of the contribution of human skin and ozone reaction to volatile organic compounds (VOC) concentration in aircraft cabins. <i>Building and Environment</i> , <b>2015</b> , 94, 12-20   | 6.5  | 22 |
| 23 | 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 &amp; Technology</i> , <b>2015</b> , 49, 10349-56 | 10.3 | 71 |
| 22 | 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> , <b>2015</b> , 76, 679-686  | 8.1  | 24 |
| 21 | A new Chinese Kang with forced convection: System design and thermal performance measurements. <i>Energy and Buildings</i> , <b>2014</b> , 85, 410-415  | 7    | 21 |
| 20 | A feasibility study of the association of exposure to biomass smoke with vascular function, inflammation, and cellular aging. <i>Environmental Research</i> , <b>2014</b> , 135, 165-72   | 7.9  | 58 |
| 19 | Thermal performance of a traditional Chinese heated wall with the in-series flow pass: Experiment and modeling. <i>Energy and Buildings</i> , <b>2014</b> , 84, 46-54   | 7    | 8  |
| 18 | Pollutant emissions and energy efficiency of Chinese gasifier cooking stoves and implications for future intervention studies. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 6461-7   | 10.3 | 78 |
| 17 | Source apportionment of volatile organic compounds (VOCs) in aircraft cabins. <i>Building and Environment</i> , <b>2014</b> , 81, 1-6   | 6.5  | 35 |
| 16 | Volatile organic compounds in different interior construction stages of an apartment. <i>Building and Environment</i> , <b>2014</b> , 81, 380-387   | 6.5  | 28 |
| 15 | Source apportionment of airborne particles in commercial aircraft cabin environment: Contributions from outside and inside of cabin. <i>Atmospheric Environment</i> , <b>2014</b> , 89, 119-128   | 5.3  | 27 |
| 14 | Volatile organic compounds in aircraft cabin: Measurements and correlations between compounds. <i>Building and Environment</i> , <b>2014</b> , 78, 89-94  | 6.5  | 25 |

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|----|---|------|----|
| 13 | Long-term concentrations of volatile organic compounds in a new apartment in Beijing, China. <i>Building and Environment</i> , <b>2014</b> , 82, 693-701  | 6.5  | 31 |
| 12 | Measurements of volatile organic compounds in aircraft cabins. Part II: Target list, concentration levels and possible influencing factors. <i>Building and Environment</i> , <b>2014</b> , 75, 170-175               | 6.5  | 22 |
| 11 | Thermal analysis of a new solar kang system. <i>Energy and Buildings</i> , <b>2014</b> , 75, 531-537  | 7    | 18 |
| 10 | Measurements of volatile organic compounds in aircraft cabins. Part I: Methodology and detected VOC species in 107 commercial flights. <i>Building and Environment</i> , <b>2014</b> , 72, 154-161                    | 6.5  | 44 |
| 9  | Design and optimization of a solar air heater with offset strip fin absorber plate. <i>Applied Energy</i> , <b>2014</b> , 113, 1349-1362  | 10.7 | 63 |
| 8  | A new Chinese solar kang and its dynamic heat transfer model. <i>Energy and Buildings</i> , <b>2013</b> , 62, 539-549   | 7    | 25 |
| 7  | Indoor formaldehyde in real buildings: Emission source identification, overall emission rate estimation, concentration increase and decay patterns. <i>Building and Environment</i> , <b>2013</b> , 69, 114-120       | 6.5  | 35 |
| 6  | 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> , <b>2012</b> , 5, 351-357 | 3.9  | 19 |
| 5  | Experimental analysis on thermal performance of a solar air collector with a single pass. <i>Building and Environment</i> , <b>2012</b> , 56, 361-369   | 6.5  | 37 |
| 4  | Energy and environment in Chinese rural housing: Current status and future perspective. <i>Frontiers of Energy and Power Engineering in China</i> , <b>2010</b> , 4, 35-46  |      | 22 |
| 3  | Thermal and energy analysis of a Chinese kang. <i>Frontiers of Energy and Power Engineering in China</i> , <b>2010</b> , 4, 84-92   |      | 3  |
| 2  | Study on a new correlation between diffusion coefficient and temperature in porous building materials. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 2080-2083   | 5.3  | 74 |
| 1  | On regression method to obtain emission parameters of building materials. <i>Building and Environment</i> , <b>2005</b> , 40, 1282-1287   | 6.5  | 14 |