

Jian Hang

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.

87
papers

2,515
citations

28
h-index

48
g-index

88
ext. papers

3,400
ext. citations

7
avg, IF

5.66
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 87 | Insufficient ventilation led to a probable long-range airborne transmission of SARS-CoV-2 on two buses. <i>Building and Environment</i> , 2022 , 207, 108414 | 6.5 | 25 |
| 86 | Impact of Indoor-Outdoor Temperature Difference on Building Ventilation and Pollutant Dispersion within Urban Communities. <i>Atmosphere</i> , 2022 , 13, 28 | 2.7 | 0 |
| 85 | Influence of urban spatial and socioeconomic parameters on PM at subdistrict level: A land use regression study in Shenzhen, China.. <i>Journal of Environmental Sciences</i> , 2022 , 114, 485-502 | 6.4 | 0 |
| 84 | Role of pathogen-laden expiratory droplet dispersion and natural ventilation explaining a COVID-19 outbreak in a coach bus. <i>Building and Environment</i> , 2022 , 109160 | 6.5 | 0 |
| 83 | Numerical investigation of the effects of environmental conditions, droplet size, and social distancing on droplet transmission in a street canyon. <i>Building and Environment</i> , 2022 , 109261 | 6.5 | 1 |
| 82 | Scaled outdoor experimental analysis of ventilation and interunit dispersion with wind and buoyancy effects in street canyons. <i>Energy and Buildings</i> , 2021 , 111688 | 7 | 1 |
| 81 | Predominant airborne transmission and insignificant fomite transmission of SARS-CoV-2 in a two-bus COVID-19 outbreak originating from the same pre-symptomatic index case.. <i>Journal of Hazardous Materials</i> , 2021 , 425, 128051 | 12.8 | 5 |
| 80 | Numerical investigations of wind and thermal environment in 2D scaled street canyons with various aspect ratios and solar wall heating. <i>Building and Environment</i> , 2021 , 190, 107525 | 6.5 | 5 |
| 79 | Outdoor Airborne Transmission of Coronavirus Among Apartments in High-Density Cities. <i>Frontiers in Built Environment</i> , 2021 , 7, | 2.2 | 7 |
| 78 | Probable airborne transmission of SARS-CoV-2 in a poorly ventilated restaurant. <i>Building and Environment</i> , 2021 , 196, 107788 | 6.5 | 151 |
| 77 | Airborne transmission of pathogen-laden expiratory droplets in open outdoor space. <i>Science of the Total Environment</i> , 2021 , 773, 145537 | 10.2 | 6 |
| 76 | APFoam 1.0: integrated computational fluid dynamics simulation of O ₃ and NO _x and volatile organic compound chemistry and pollutant dispersion in a typical street canyon. <i>Geoscientific Model Development</i> , 2021 , 14, 4655-4681 | 6.3 | 1 |
| 75 | Numerical investigations of Re-independence and influence of wall heating on flow characteristics and ventilation in full-scale 2D street canyons. <i>Building and Environment</i> , 2021 , 189, 107510 | 6.5 | 16 |
| 74 | Interactive effect between long-term and short-term thermal history on outdoor thermal comfort: Comparison between Guangzhou, Zhuhai and Melbourne. <i>Science of the Total Environment</i> , 2021 , 760, 144141 | 10.2 | 15 |
| 73 | Integrated impacts of tree planting and aspect ratios on thermal environment in street canyons by scaled outdoor experiments. <i>Science of the Total Environment</i> , 2021 , 764, 142920 | 10.2 | 14 |
| 72 | The influence of solar natural heating and NO _x photochemistry on flow and reactive pollutant exposure in 2D street canyons. <i>Science of the Total Environment</i> , 2021 , 759, 143527 | 10.2 | 5 |
| 71 | Influence of acclimatization and short-term thermal history on outdoor thermal comfort in subtropical South China. <i>Energy and Buildings</i> , 2021 , 231, 110541 | 7 | 11 |

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| 70 | Effects of short-term physiological and psychological adaptation on summer thermal comfort of outdoor exercising people in China. <i>Building and Environment</i> , 2021 , 198, 107877 | 6.5 | 10 |
| 69 | Effects of urban geometry on thermal environment in 2D street canyons: A scaled experimental study. <i>Building and Environment</i> , 2021 , 198, 107916 | 6.5 | 4 |
| 68 | Investigation of the Reynolds number independence of cavity flow in 2D street canyons by wind tunnel experiments and numerical simulations. <i>Building and Environment</i> , 2021 , 201, 107965 | 6.5 | 3 |
| 67 | Deposition of ambient particles in the human respiratory system based on single particle analysis: A case study in the Pearl River Delta, China. <i>Environmental Pollution</i> , 2021 , 283, 117056 | 9.3 | |
| 66 | Numerical investigation of solar impacts on canyon vortices and its dynamical generation mechanism. <i>Urban Climate</i> , 2021 , 39, 100978 | 6.8 | 1 |
| 65 | Characterization of dicarboxylic acids, oxoacids, and dicarbonyls in PM within the urban boundary layer in southern China: Sources and formation pathways. <i>Environmental Pollution</i> , 2021 , 285, 117185 | 9.3 | 1 |
| 64 | Steady and unsteady turbulent flows and pollutant dispersion in 2D street canyons with novel boundary conditions and various Re numbers. <i>Urban Climate</i> , 2021 , 39, 100973 | 6.8 | |
| 63 | Influences of street aspect ratios and realistic solar heating on convective heat transfer and ventilation in full-scale 2D street canyons. <i>Building and Environment</i> , 2021 , 204, 108125 | 6.5 | 0 |
| 62 | Urban thermal environment and surface energy balance in 3D high-rise compact urban models: Scaled outdoor experiments. <i>Building and Environment</i> , 2021 , 205, 108251 | 6.5 | 4 |
| 61 | Effects of tree plantings and aspect ratios on pedestrian visual and thermal comfort using scaled outdoor experiments. <i>Science of the Total Environment</i> , 2021 , 801, 149527 | 10.2 | 8 |
| 60 | Numerical studies of passive and reactive pollutant dispersion in high-density urban models with various building densities and height variations. <i>Building and Environment</i> , 2020 , 177, 106916 | 6.5 | 6 |
| 59 | Bioaccessibility and exposure assessment of PM- and PM-bound rare earth elements in Oil City, Northeast China. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122520 | 12.8 | 2 |
| 58 | Urban heat island circulations over the Beijing-Tianjin region under calm and fair conditions. <i>Building and Environment</i> , 2020 , 180, 107063 | 6.5 | 6 |
| 57 | Characteristics of urban air pollution in different regions of China between 2015 and 2019. <i>Building and Environment</i> , 2020 , 180, 107048 | 6.5 | 13 |
| 56 | Investigation of interunit dispersion in 2D street canyons: A scaled outdoor experiment. <i>Building and Environment</i> , 2020 , 171, 106673 | 6.5 | 14 |
| 55 | Scaled outdoor experimental studies of urban thermal environment in street canyon models with various aspect ratios and thermal storage. <i>Science of the Total Environment</i> , 2020 , 726, 138147 | 10.2 | 41 |
| 54 | Numerical investigations of reactive pollutant dispersion and personal exposure in 3D urban-like models. <i>Building and Environment</i> , 2020 , 169, 106569 | 6.5 | 6 |
| 53 | Size-segregated deposition of atmospheric elemental carbon (EC) in the human respiratory system: A case study of the Pearl River Delta, China. <i>Science of the Total Environment</i> , 2020 , 708, 134932 | 10.2 | 7 |

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| 52 | Integrated impacts of tree planting and street aspect ratios on CO dispersion and personal exposure in full-scale street canyons. <i>Building and Environment</i> , 2020 , 169, 106529 | 6.5 | 47 |
| 51 | Integrated assessment of indoor and outdoor ventilation in street canyons with naturally-ventilated buildings by various ventilation indexes. <i>Building and Environment</i> , 2020 , 169, 106528 | 6.5 | 12 |
| 50 | Integrated impacts of turbulent mixing and NO-O photochemistry on reactive pollutant dispersion and intake fraction in shallow and deep street canyons. <i>Science of the Total Environment</i> , 2020 , 712, 135553 | 10.2 | 26 |
| 49 | The influence of aspect ratios and wall heating conditions on flow and passive pollutant exposure in 2D typical street canyons. <i>Building and Environment</i> , 2020 , 168, 106536 | 6.5 | 14 |
| 48 | Urban plume characteristics under various wind speed, heat flux, and stratification conditions. <i>Atmospheric Environment</i> , 2020 , 239, 117774 | 5.3 | 8 |
| 47 | Cross-modal effects of thermal and visual conditions on outdoor thermal and visual comfort perception. <i>Building and Environment</i> , 2020 , 186, 107297 | 6.5 | 11 |
| 46 | The influence of aspect ratios and solar heating on flow and ventilation in 2D street canyons by scaled outdoor experiments. <i>Building and Environment</i> , 2020 , 185, 107159 | 6.5 | 20 |
| 45 | Transmission of pathogen-laden expiratory droplets in a coach bus. <i>Journal of Hazardous Materials</i> , 2020 , 397, 122609 | 12.8 | 70 |
| 44 | Projections of long-term human multimedia exposure to metal(loid)s and the health risks derived from atmospheric deposition: A case study in the Pearl River Delta region, South China. <i>Environment International</i> , 2019 , 132, 105051 | 12.9 | 5 |
| 43 | Inhalation bioaccessibility of polycyclic aromatic hydrocarbons in heavy PM pollution days: Implications for public health risk assessment in northern China. <i>Environmental Pollution</i> , 2019 , 255, 113296 | 9.3 | 10 |
| 42 | Ingestion bioaccessibility of indoor dust-bound PAHs: Inclusion of a sorption sink to simulate passive transfer across the small intestine. <i>Science of the Total Environment</i> , 2019 , 659, 1546-1554 | 10.2 | 9 |
| 41 | Interacting urban heat island circulations as affected by weak background wind. <i>Building and Environment</i> , 2019 , 160, 106224 | 6.5 | 7 |
| 40 | Association between parental perceptions of odors and childhood asthma in subtropical South China with a hot humid climate. <i>Building and Environment</i> , 2019 , 159, 106155 | 6.5 | 4 |
| 39 | In Vitro investigations of high molecular weight polycyclic aromatic hydrocarbons in winter airborne particles using simulated lung fluids. <i>Atmospheric Environment</i> , 2019 , 201, 293-300 | 5.3 | 6 |
| 38 | Multilayer urban canopy modelling and mapping for traffic pollutant dispersion at high density urban areas. <i>Science of the Total Environment</i> , 2019 , 647, 255-267 | 10.2 | 24 |
| 37 | Numerical evaluations of urban design technique to reduce vehicular personal intake fraction in deep street canyons. <i>Science of the Total Environment</i> , 2019 , 653, 968-994 | 10.2 | 81 |
| 36 | Urban heat island circulations of an idealized circular city as affected by background wind speed. <i>Building and Environment</i> , 2019 , 148, 433-447 | 6.5 | 16 |
| 35 | The influence of advertisement boards, street and source layouts on CO dispersion and building intake fraction in three-dimensional urban-like models. <i>Building and Environment</i> , 2019 , 150, 297-321 | 6.5 | 20 |

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| 34 | Impact of indoor-outdoor temperature differences on dispersion of gaseous pollutant and particles in idealized street canyons with and without viaduct settings. <i>Building Simulation</i> , 2019 , 12, 285-297 | 3.9 | 19 |
| 33 | The impact of urban open space and Tilt-up Building design on building intake fraction and daily pollutant exposure in idealized urban models. <i>Science of the Total Environment</i> , 2018 , 633, 1314-1328 | 10.2 | 44 |
| 32 | Evaluation of computational and physical parameters influencing CFD simulations of pollutant dispersion in building arrays. <i>Building and Environment</i> , 2018 , 137, 90-107 | 6.5 | 34 |
| 31 | A zonal model for assessing street canyon air temperature of high-density cities. <i>Building and Environment</i> , 2018 , 132, 160-169 | 6.5 | 26 |
| 30 | The impact of semi-open settings on ventilation in idealized building arrays. <i>Urban Climate</i> , 2018 , 25, 196-217 | 6.8 | 12 |
| 29 | The impacts of viaduct settings and street aspect ratios on personal intake fraction in three-dimensional urban-like geometries. <i>Building and Environment</i> , 2018 , 143, 138-162 | 6.5 | 44 |
| 28 | Natural Ventilation of a Small-Scale Road Tunnel by Wind Catchers: A CFD Simulation Study. <i>Atmosphere</i> , 2018 , 9, 411 | 2.7 | 8 |
| 27 | Numerical investigations of flow and passive pollutant exposure in high-rise deep street canyons with various street aspect ratios and viaduct settings. <i>Science of the Total Environment</i> , 2017 , 584-585, 189-206 | 10.2 | 70 |
| 26 | The impacts of building height variations and building packing densities on flow adjustment and city breathability in idealized urban models. <i>Building and Environment</i> , 2017 , 118, 344-361 | 6.5 | 100 |
| 25 | Impacts of Urban Layouts and Open Space on Urban Ventilation Evaluated by Concentration Decay Method. <i>Atmosphere</i> , 2017 , 8, 169 | 2.7 | 11 |
| 24 | The Influence of Building Packing Densities on Flow Adjustment and City Breathability in Urban-like Geometries. <i>Procedia Engineering</i> , 2017 , 198, 758-769 | | 9 |
| 23 | The influence of street layouts and viaduct settings on daily carbon monoxide exposure and intake fraction in idealized urban canyons. <i>Environmental Pollution</i> , 2017 , 220, 72-86 | 9.3 | 97 |
| 22 | A combined fully-resolved and porous approach for building cluster wind flows. <i>Building Simulation</i> , 2017 , 10, 97-109 | 3.9 | 9 |
| 21 | Solar Radiation Intensity and Outdoor Thermal Comfort in Royal Botanic Garden Melbourne during Heatwave Conditions. <i>Procedia Engineering</i> , 2017 , 205, 3456-3462 | | 8 |
| 20 | Integrated Effects of Street Layouts and Wall Heating on Vehicular Pollutant Dispersion and their Reentry Toward Downstream Canyons. <i>Aerosol and Air Quality Research</i> , 2017 , 16, 3142-3163 | 4.6 | 32 |
| 19 | Numerical investigation of wind-driven natural ventilation performance in a multi-storey hospital by coupling indoor and outdoor airflow. <i>Indoor and Built Environment</i> , 2016 , 25, 1226-1247 | 1.8 | 25 |
| 18 | On the influence of viaduct and ground heating on pollutant dispersion in 2D street canyons and toward single-sided ventilated buildings. <i>Atmospheric Pollution Research</i> , 2016 , 7, 817-832 | 4.5 | 29 |
| 17 | Natural convection flows along a 16-storey high-rise building. <i>Building and Environment</i> , 2016 , 107, 215-225 | | 36 |

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| 16 | Potential airborne transmission between two isolation cubicles through a shared anteroom. <i>Building and Environment</i> , 2015 , 89, 264-278 | 6.5 | 40 |
| 15 | City breathability in medium density urban-like geometries evaluated through the pollutant transport rate and the net escape velocity. <i>Building and Environment</i> , 2015 , 94, 166-182 | 6.5 | 87 |
| 14 | The influence of human walking on the flow and airborne transmission in a six-bed isolation room: Tracer gas simulation. <i>Building and Environment</i> , 2014 , 77, 119-134 | 6.5 | 75 |
| 13 | Quantitative ventilation assessments of idealized urban canopy layers with various urban layouts and the same building packing density. <i>Building and Environment</i> , 2014 , 79, 152-167 | 6.5 | 102 |
| 12 | Natural ventilation assessment in typical open and semi-open urban environments under various wind directions. <i>Building and Environment</i> , 2013 , 70, 318-333 | 6.5 | 66 |
| 11 | On the contribution of mean flow and turbulence to city breathability: the case of long streets with tall buildings. <i>Science of the Total Environment</i> , 2012 , 416, 362-73 | 10.2 | 61 |
| 10 | Macroscopic simulations of turbulent flows through high-rise building arrays using a porous turbulence model. <i>Building and Environment</i> , 2012 , 49, 41-54 | 6.5 | 20 |
| 9 | The influence of building height variability on pollutant dispersion and pedestrian ventilation in idealized high-rise urban areas. <i>Building and Environment</i> , 2012 , 56, 346-360 | 6.5 | 225 |
| 8 | Experimental and numerical studies of flows through and within high-rise building arrays and their link to ventilation strategy. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2011 , 99, 1036-1053 | 3.7 | 51 |
| 7 | Age of air and air exchange efficiency in high-rise urban areas and its link to pollutant dilution. <i>Atmospheric Environment</i> , 2011 , 45, 5572-5585 | 5.3 | 66 |
| 6 | Wind Conditions in Idealized Building Clusters: Macroscopic Simulations Using a Porous Turbulence Model. <i>Boundary-Layer Meteorology</i> , 2010 , 136, 129-159 | 3.4 | 53 |
| 5 | Ventilation strategy and air change rates in idealized high-rise compact urban areas. <i>Building and Environment</i> , 2010 , 45, 2754-2767 | 6.5 | 65 |
| 4 | Pollutant dispersion in idealized city models with different urban morphologies. <i>Atmospheric Environment</i> , 2009 , 43, 6011-6025 | 5.3 | 41 |
| 3 | Age of air and air exchange efficiency in idealized city models. <i>Building and Environment</i> , 2009 , 44, 1714-1723 | 6.5 | 99 |
| 2 | Heat wave trends in Southeast Asia: Comparison of results from observation and reanalysis data. <i>Geophysical Research Letters</i> , | 4.9 | 1 |
| 1 | Evidence for probable aerosol transmission of SARS-CoV-2 in a poorly ventilated restaurant | | 71 |