Qun Wang

List of Publications by Year
in descending order

33 papers	807 citations	516561 16 h-index	501076 28 g-index
33 all docs	33 docs citations	33 times ranked	415 citing authors

#	Article	IF	Citations
1	Aerosol transmission of SARS-CoV-2 due to the chimney effect in two high-rise housing drainage stacks. Journal of Hazardous Materials, 2022, 421, 126799.	6.5	35
2	Influence of network structure on contaminant spreading efficiency. Journal of Hazardous Materials, 2022, 424, 127511.	6.5	3
3	High-resolution regional modeling of urban moisture island: mechanisms and implications on thermal comfort. Building and Environment, 2022, 207, 108542.	3.0	17
4	The effect of background wind on summertime daily maximum air temperature in Kowloon, Hong Kong. Building and Environment, 2022, 210, 108693.	3.0	11
5	High attack rate in a Tong Lau house outbreak of COVID-19 with subdivided units in Hong Kong. Interface Focus, 2022, 12, 20210063.	1.5	12
6	Spread of SARS-CoV-2 aerosols via two connected drainage stacks in a high-rise housing outbreak of COVID-19. Journal of Hazardous Materials, 2022, 430, 128475.	6.5	18
7	Numerical Investigations of Urban Pollutant Dispersion and Building Intake Fraction with Various 3D Building Configurations and Tree Plantings. International Journal of Environmental Research and Public Health, 2022, 19, 3524.	1.2	7
8	Impact of Indoor-Outdoor Temperature Difference on Building Ventilation and Pollutant Dispersion within Urban Communities. Atmosphere, 2022, 13, 28.	1.0	9
9	Exposure and respiratory infection risk via the short-range airborne route. Building and Environment, 2022, 219, 109166.	3.0	13
10	Probable cross-corridor transmission of SARS-CoV-2 due to cross airflows and its control. Building and Environment, 2022, 218, 109137.	3.0	11
11	Explosive outbreak of SARS-CoV-2 Omicron variant is associated with vertical transmission in high-rise residential buildings in Hong Kong. Building and Environment, 2022, 221, 109323.	3.0	13
12	The influence of solar natural heating and NO -O3 photochemistry on flow and reactive pollutant exposure in 2D street canyons. Science of the Total Environment, 2021, 759, 143527.	3.9	20
13	Inversion breakup over different shapes of urban areas. Building and Environment, 2021, 190, 107548.	3.0	5
14	Effects of urban geometry on thermal environment in 2D street canyons: A scaled experimental study. Building and Environment, 2021, 198, 107916.	3.0	24
15	Numerical investigation of solar impacts on canyon vortices and its dynamical generation mechanism. Urban Climate, 2021, 39, 100978.	2.4	5
16	Steady and unsteady turbulent flows and pollutant dispersion in 2D street canyons with novel boundary conditions and various Re numbers. Urban Climate, 2021, 39, 100973.	2.4	2
17	Influences of street aspect ratios and realistic solar heating on convective heat transfer and ventilation in full-scale 2D street canyons. Building and Environment, 2021, 204, 108125.	3.0	18
18	Urban thermal environment and surface energy balance in 3D high-rise compact urban models: Scaled outdoor experiments. Building and Environment, 2021, 205, 108251.	3.0	14

#	Article	IF	Citations
19	Integrated impacts of tree planting and street aspect ratios on CO dispersion and personal exposure in full-scale street canyons. Building and Environment, 2020, 169, 106529.	3.0	78
20	The influence of aspect ratios and wall heating conditions on flow and passive pollutant exposure in 2D typical street canyons. Building and Environment, 2020, 168, 106536.	3.0	31
21	Urban plume characteristics under various wind speed, heat flux, and stratification conditions. Atmospheric Environment, 2020, 239, 117774.	1.9	17
22	The influence of aspect ratios and solar heating on flow and ventilation in 2D street canyons by scaled outdoor experiments. Building and Environment, 2020, 185, 107159.	3.0	50
23	Urban heat island circulations over the Beijing-Tianjin region under calm and fair conditions. Building and Environment, 2020, 180, 107063.	3.0	28
24	Conditions for transition from a plume to a dome above a heated horizontal area. International Journal of Heat and Mass Transfer, 2020, 156, 119868.	2.5	15
25	Scaled outdoor experimental studies of urban thermal environment in street canyon models with various aspect ratios and thermal storage. Science of the Total Environment, 2020, 726, 138147.	3.9	86
26	Water tank modelling of variations in inversion breakup over a circular city. Building and Environment, 2019, 164, 106342.	3.0	14
27	Effect of city shape on urban wind patterns and convective heat transfer in calm and stable background conditions. Building and Environment, 2019, 162, 106288.	3.0	31
28	Interacting urban heat island circulations as affected by weak background wind. Building and Environment, 2019, 160, 106224.	3.0	14
29	TIV and PIV based natural convection study over a square flat plate under stable stratification. International Journal of Heat and Mass Transfer, 2019, 140, 660-670.	2.5	14
30	Urban heat island circulations of an idealized circular city as affected by background wind speed. Building and Environment, 2019, 148, 433-447.	3.0	27
31	A zonal model for assessing street canyon air temperature of high-density cities. Building and Environment, 2018, 132, 160-169.	3.0	38
32	Impacts of Urban Layouts and Open Space on Urban Ventilation Evaluated by Concentration Decay Method. Atmosphere, 2017, 8, 169.	1.0	14
33	City breathability in medium density urban-like geometries evaluated through the pollutant transport rate and the net escape velocity. Building and Environment, 2015, 94, 166-182.	3.0	113