Zhi Gao

List of Publications by Year
in descending order

39 papers	922 citations	471061 17 h-index	476904 29 g-index
40 all docs	40 docs citations	40 times ranked	728 citing authors

#	Article	IF	Citations
1	The â€œplant evaluation modelâ€•for the assessment of the impact of vegetation on outdoor microclimate in the urban environment. Building and Environment, 2019, 159, 106151.	3.0	70
2	Study of the effect of green quantity and structure on thermal comfort and air quality in an urban-like residential district by ENVI-met modelling. Building Simulation, 2019, 12, 183-194.	3.0	67
3	The Impact of Green Space Layouts on Microclimate and Air Quality in Residential Districts of Nanjing, China. Forests, 2018, 9, 224.	0.9	65
4	An investigation on the effect of street morphology to ambient air quality using six real-world cases. Atmospheric Environment, 2017, 164, 85-101.	1.9	60
5	Emission rates of indoor ozone emission devices: A literature review. Building and Environment, 2019, 158, 302-318.	3.0	59
6	Commuter exposure to particulate matters in four common transportation modes in Nanjing. Building and Environment, 2019, 156, 156-170.	3.0	51
7	An Investigation of the Quantitative Correlation between Urban Morphology Parameters and Outdoor Ventilation Efficiency Indices. Atmosphere, 2019, 10, 33.	1.0	40
8	Effect of urban form on microclimate and energy loads: Case study of generic residential district prototypes in Nanjing, China. Sustainable Cities and Society, 2021, 70, 102930.	5.1	39
9	Indices employed for the assessment of â€œurban outdoor ventilationâ€• A review. Atmospheric Environment, 2020, 223, 117211.	1.9	38
10	Ozone removal on building material surface: A literature review. Building and Environment, 2018, 134, 205-217.	3.0	35
11	Urban ventilation of typical residential streets and impact of building form variation. Sustainable Cities and Society, 2021, 67, 102735.	5.1	35
12	Contributions of Indoor and Outdoor Sources to Ozone in Residential Buildings in Nanjing. International Journal of Environmental Research and Public Health, 2019, 16, 2587.	1.2	33
13	A New Experimental Method for the Determination of Emittable Initial VOC Concentrations in Building Materials and Sorption Isotherms for IVOCs. Clean - Soil, Air, Water, 2009, 37, 454-458.	0.7	28
14	Characterizing the morphology of real street models and modeling its effect on thermal environment. Energy and Buildings, 2019, 203, 109433.	3.1	25
15	Determination of partition and diffusion coefficients of formaldehyde in selected building materials and impact of relative humidity. Journal of the Air and Waste Management Association, 2012, 62, 671-679.	0.9	22
16	A Numerical Study on the Correlation between Sky View Factor and Summer Microclimate of Local Climate Zones. Atmosphere, 2019, 10, 438.	1.0	22
17	Effect of greening on pollutant dispersion and ventilation at urban street intersections. Building and Environment, 2021, 203, 108075.	3.0	20
18	Changes in Olive Urban Forests Infected by Xylella fastidiosa: Impact on Microclimate and Social Health. International Journal of Environmental Research and Public Health, 2019, 16, 2642.	1.2	19

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19	A Conceptual Framework to Design Green Infrastructure: Ecosystem Services as an Opportunity for Creating Shared Value in Ground Photovoltaic Systems. Land, 2020, 9, 238.	1.2	18
20	Investigation of typical residential block typologies and their impact on pedestrian-level microclimate in summers in Nanjing, China. Frontiers of Architectural Research, 2022, 11, 278-296.	1.3	18
21	Improving Residential Wind Environments by Understanding the Relationship between Building Arrangements and Outdoor Regional Ventilation. Atmosphere, 2017, 8, 102.	1.0	17
22	Numerical analysis for evaluating the â€œExposure Reduction Effectivenessâ€•of room air cleaners. Building and Environment, 2010, 45, 1984-1992.	3.0	13
23	Study on indoor air quality and fresh air energy consumption under different ventilation modes in 24-hour occupied bedrooms in Nanjing, using Modelica-based simulation. Energy and Buildings, 2022, 257, 111805.	3.1	13
24	Ventilation and Air Quality in Student Dormitories in China: A Case Study during Summer in Nanjing. International Journal of Environmental Research and Public Health, 2018, 15, 1328.	1.2	12
25	Characterization of Urban Greening in a District of Lecce (Southern Italy) for the Analysis of CO2 Storage and Air Pollutant Dispersion. Atmosphere, 2020, 11, 967.	1.0	11
26	Effects of roadside morphologies and moving vehicles on street canyon ventilation. Building and Environment, 2022, 218, 109138.	3.0	11
27	Application of CFD plug-ins integrated into urban and building design platforms for performance simulations: A literature review. Frontiers of Architectural Research, 2023, 12, 148-174.	1.3	11
28	Influence of typical street-side public building morphologies on the ventilation performance of streets and squares. Building and Environment, 2022, 221, 109331.	3.0	11
29	An Approach on the Correlation between Urban Morphological Parameters and Ventilation Performance. Energy Procedia, 2017, 142, 2884-2891.	1.8	10
30	On the effects of urban-like intersections on ventilation and pollutant dispersion. Building Simulation, 2022, 15, 419-433.	3.0	10
31	Application of computational fluid dynamics in subway environment without fire and smokeâ€”Literature review. Building and Environment, 2021, 206, 108408.	3.0	10
32	Outdoor and Indoor Ozone Concentration Estimation Based on Artificial Neural Network and Single Zone Mass Balance Model. Procedia Engineering, 2017, 205, 1835-1842.	1.2	8
33	Green Design Studio: A modular-based approach for high-performance building design. Building Simulation, 2021, 14, 241-268.	3.0	8
34	Ventilation and Pollutant Concentration for the Pedestrian Zone, the Near-Wall Zone, and the Canopy Layer at Urban Intersections. International Journal of Environmental Research and Public Health, 2021, 18, 11080.	1.2	4
35	Modeling Particle Penetrations Through Wall Assemblies Using Computational Fluid Dynamics. Aerosol Science and Technology, 2015, 49, 167-178.	1.5	3
36	Comparison of common machine learning algorithms trained with multi-zone models for identifying the location and strength of indoor pollutant sources. Indoor and Built Environment, 2020, , 1420326X2093157.	1.5	3

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37	Transport and control of kitchen pollutants in Nanjing based on the Modelica multizone model. Journal of Building Performance Simulation, 2022, 15, 97-111.	1.0	2
38	Combined Heat, Air, Moisture and Pollutant Simulations (CHAMPS) research for building and urban energy efficiency and environmental quality analysis. Building Simulation, 2021, 14, 237-239.	3.0	1
39	An Experimental Study on the Uptake Factor of Tungsten Oxide Particles Resulting from an Accidentally Dropped Storage Container. Journal of Occupational and Environmental Hygiene, 2013, 10, 357-367.	0.4	0