

# Chao Yuan

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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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.

36

papers

1,825

citations

18

h-index

37

g-index

37

ext. papers

2,248

ext. citations

5.6

avg, IF

5.3

L-index

#	Paper	IF	Citations
36	Urban buoyancy-driven air flow and modelling method: A critical review. <i>Building and Environment</i> , <b>2022</b> , 210, 108708	6.5	1
35	Post-Occupancy Evaluation of the Biophilic Design in the Workplace for Health and Wellbeing. <i>Buildings</i> , <b>2022</b> , 12, 417	3.2	0
34	Impact of Anthropogenic Heat from Air-Conditioning on Air Temperature of Naturally Ventilated Apartments at High-Density Tropical Cities. <i>Energy and Buildings</i> , <b>2022</b> , 112171	7	0
33	Vital Signs Revisited in the Tropics: Through the nus-cdl Tropical Technologies Laboratory. <i>Strategies for Sustainability</i> , <b>2021</b> , 95-110	0.8	
32	Analytical and numerical study on transient urban street air warming induced by anthropogenic heat emission. <i>Energy and Buildings</i> , <b>2021</b> , 231, 110613	7	11
31	Three-dimensional simulation of building thermal plumes merging in calm conditions: Turbulence model evaluation and turbulence structure analysis. <i>Building and Environment</i> , <b>2021</b> , 203, 108097	6.5	3
30	Effects of tree plantings and aspect ratios on pedestrian visual and thermal comfort using scaled outdoor experiments. <i>Science of the Total Environment</i> , <b>2021</b> , 801, 149527	10.2	8
29	How does weather and climate affect pedestrian walking speed during cool and cold seasons in severely cold areas?. <i>Building and Environment</i> , <b>2020</b> , 175, 106811	6.5	8
28	An Investigation on Ventilation of Building-Integrated Photovoltaics System Using Numerical Modeling. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2020</b> , 142,	2.3	3
27	Relationship between pedestrian-level outdoor thermal comfort and building morphology in a high-density city. <i>Science of the Total Environment</i> , <b>2020</b> , 708, 134516	10.2	22
26	Mitigating intensity of urban heat island by better understanding on urban morphology and anthropogenic heat dispersion. <i>Building and Environment</i> , <b>2020</b> , 176, 106876	6.5	40
25	Effects of urban morphology on anthropogenic heat dispersion in tropical high-density residential areas. <i>Energy and Buildings</i> , <b>2019</b> , 186, 368-383	7	33
24	Multilayer urban canopy modelling and mapping for traffic pollutant dispersion at high density urban areas. <i>Science of the Total Environment</i> , <b>2019</b> , 647, 255-267	10.2	24
23	Dry mist systems and its impact on thermal comfort for the tropics. <i>Sustainable Cities and Society</i> , <b>2019</b> , 51, 101727	10.1	11
22	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> , <b>2019</b> , 150, 297-321	6.5	20
21	Effects of vertical farming on natural ventilation of residential buildings. <i>Energy and Buildings</i> , <b>2019</b> , 185, 316-325	7	13
20	A Semi-Empirical Model for Urban Trees Effects on the Wind Environment. <i>SpringerBriefs in Architectural Design and Technology</i> , <b>2018</b> , 141-161	0.1	

19	Semiempirical Model for Fine-Scale Assessment of Pedestrian-Level Wind in High-Density Cities. <i>SpringerBriefs in Architectural Design and Technology</i> , <b>2018</b> , 55-75	0.1	
18	High-Density Planning and Challenges. <i>SpringerBriefs in Architectural Design and Technology</i> , <b>2018</b> , 1-15	0.1	
17	Defining the environmental performance of neighbourhoods in high-density cities. <i>Building Research and Information</i> , <b>2018</b> , 46, 540-551	4.3	8
16	Design Optimization of Productive Façades: Integrating Photovoltaic and Farming Systems at the Tropical Technologies Laboratory. <i>Sustainability</i> , <b>2018</b> , 10, 3762	3.6	16
15	A study on the impact of shadow-cast and tree species on in-canyon and neighborhood thermal comfort. <i>Building and Environment</i> , <b>2017</b> , 115, 1-17	6.5	156
14	Regulation of outdoor thermal comfort by trees in Hong Kong. <i>Sustainable Cities and Society</i> , <b>2017</b> , 31, 12-25	10.1	120
13	Large-eddy simulations of ventilation for thermal comfort: A parametric study of generic urban configurations with perpendicular approaching winds. <i>Urban Climate</i> , <b>2017</b> , 20, 202-227	6.8	33
12	A semi-empirical model for the effect of trees on the urban wind environment. <i>Landscape and Urban Planning</i> , <b>2017</b> , 168, 84-93	7.7	36
11	An Ecological Study of the Association between Area-Level Green Space and Adult Mortality in Hong Kong. <i>Climate</i> , <b>2017</b> , 5, 55	3.1	23
10	A modelling-mapping approach for fine-scale assessment of pedestrian-level wind in high-density cities. <i>Building and Environment</i> , <b>2016</b> , 97, 152-165	6.5	21
9	Improving air quality in high-density cities by understanding the relationship between air pollutant dispersion and urban morphologies. <i>Building and Environment</i> , <b>2014</b> , 71, 245-258	6.5	159
8	GIS-based surface roughness evaluation in the urban planning system to improve the wind environment: A study in Wuhan, China. <i>Urban Climate</i> , <b>2014</b> , 10, 585-593	6.8	50
7	Practical application of CFD on environmentally sensitive architectural design at high density cities: A case study in Hong Kong. <i>Urban Climate</i> , <b>2014</b> , 8, 57-77	6.8	22
6	Policies and technicalities providing natural ventilation to domestic spaces for high-density tropical living in Hong Kong. <i>Architectural Science Review</i> , <b>2012</b> , 55, 61-70	2.6	0
5	A study on the cooling effects of greening in a high-density city: An experience from Hong Kong. <i>Building and Environment</i> , <b>2012</b> , 47, 256-271	6.5	524
4	Building porosity for better urban ventilation in high-density cities - A computational parametric study. <i>Building and Environment</i> , <b>2012</b> , 50, 176-189	6.5	140
3	Improving the wind environment in high-density cities by understanding urban morphology and surface roughness: A study in Hong Kong. <i>Landscape and Urban Planning</i> , <b>2011</b> , 101, 59-74	7.7	276
2	Mitigating urban heat island effects in high-density cities based on sky view factor and urban morphological understanding: a study of Hong Kong. <i>Architectural Science Review</i> , <b>2011</b> , 54, 305-315	2.6	43

- 1 Spatial analysis of public residential housing's electricity consumption in relation to urban landscape and building characteristics: A case study in Singapore. *Energy and Environment*, 0958305X2110560