

Edward Ng

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.

98
papers

5,418
citations

37
h-index

72
g-index

105
ext. papers

6,739
ext. citations

6
avg, IF

6.51
L-index

#	Paper	IF	Citations
98	Evaluating the thermal-radiative performance of ENVI-met model for green infrastructure typologies: Experience from a subtropical climate. <i>Building and Environment</i> , 2022 , 207, 108427	6.5	6
97	Urban ventilation assessment with improved vertical wind profile in high-density cities □ Investigations in nighttime extreme heat. <i>Building and Environment</i> , 2022 , 216, 109018	6.5	0
96	Comparing different recalibrated methods for estimating mean radiant temperature in outdoor environment. <i>Building and Environment</i> , 2022 , 216, 109004	6.5	0
95	Investigating the intra-urban urban heat island effect for two subtropical mega-urban regions in China by adopting local climate zone 2022 , 335-361		
94	To what extent can urban ventilation features cool a compact built-up environment during a prolonged heatwave? A mesoscale numerical modelling study for Hong Kong. <i>Sustainable Cities and Society</i> , 2021 , 103541	10.1	0
93	Towards decarbonisation targets by changing setpoint temperature to avoid building overcooling and implementing district cooling in (sub)tropical high-density cities - A case study of Hong Kong.. <i>Science of the Total Environment</i> , 2021 , 152338	10.2	0
92	The coupled effect of mechanical and thermal conditions on pedestrian-level ventilation in high-rise urban scenarios. <i>Building and Environment</i> , 2021 , 191, 107586	6.5	8
91	Thermal-irradiant performance of green infrastructure typologies: Field measurement study in a subtropical climate city. <i>Science of the Total Environment</i> , 2021 , 764, 144635	10.2	6
90	Applicability of different extreme weather datasets for assessing indoor overheating risks of residential buildings in a subtropical high-density city. <i>Building and Environment</i> , 2021 , 194, 107711	6.5	3
89	High-resolution mesoscale simulation of the microclimatic effects of urban development in the past, present, and future Hong Kong. <i>Urban Climate</i> , 2021 , 37, 100850	6.8	3
88	Investigations of high-density urban boundary layer under summer prevailing wind conditions with Doppler LiDAR: A case study in Hong Kong. <i>Urban Climate</i> , 2021 , 38, 100884	6.8	3
87	Predicting long-term monthly electricity demand under future climatic and socioeconomic changes using data-driven methods: A case study of Hong Kong. <i>Sustainable Cities and Society</i> , 2021 , 70, 102936	10.1	8
86	Heat mitigation benefits of urban green and blue infrastructures: A systematic review of modeling techniques, validation and scenario simulation in ENVI-met V4. <i>Building and Environment</i> , 2021 , 200, 107939	6.5	26
85	Modeling pedestrian emotion in high-density cities using visual exposure and machine learning: Tracking real-time physiology and psychology in Hong Kong. <i>Building and Environment</i> , 2021 , 205, 108273	6.5	3
84	Cause-specific mortality attributable to cold and hot ambient temperatures in Hong Kong: a time-series study, 2006-2016. <i>Sustainable Cities and Society</i> , 2020 , 57, 102131	10.1	16
83	Right tree, right place (urban canyon): Tree species selection approach for optimum urban heat mitigation - development and evaluation. <i>Science of the Total Environment</i> , 2020 , 719, 137461	10.2	53
82	The cooling efficiency of variable greenery coverage ratios in different urban densities: A study in a subtropical climate. <i>Building and Environment</i> , 2020 , 174, 106772	6.5	29

81	Evaluating assumptions of scales for subjective assessment of thermal environments [Do laypersons perceive them the way, we researchers believe?. <i>Energy and Buildings</i> , 2020 , 211, 109761	7	34
80	Development and application of future design weather data for evaluating the building thermal-energy performance in subtropical Hong Kong. <i>Energy and Buildings</i> , 2020 , 209, 109696	7	12
79	Revisit of prevailing practice guidelines and investigation of topographical treatment techniques in CFD-Based air ventilation assessments. <i>Building and Environment</i> , 2020 , 169, 106580	6.5	7
78	Effectiveness of passive design strategies in responding to future climate change for residential buildings in hot and humid Hong Kong. <i>Energy and Buildings</i> , 2020 , 228, 110469	7	27
77	Investigating the influence of urban land use and landscape pattern on PM2.5 spatial variation using mobile monitoring and WUDAPT. <i>Landscape and Urban Planning</i> , 2019 , 189, 15-26	7.7	37
76	Estimates of the impact of extreme heat events on cooling energy demand in Hong Kong. <i>Renewable Energy</i> , 2019 , 142, 73-84	8.1	27
75	Detecting multi-temporal land cover change and land surface temperature in Pearl River Delta by adopting local climate zone. <i>Urban Climate</i> , 2019 , 28, 100455	6.8	46
74	Investigating the energy saving potential of applying shading panels on opaque faades: A case study for residential buildings in Hong Kong. <i>Energy and Buildings</i> , 2019 , 193, 78-91	7	28
73	The impact of extremely hot weather events on all-cause mortality in a highly urbanized and densely populated subtropical city: A 10-year time-series study (2006-2015). <i>Science of the Total Environment</i> , 2019 , 690, 923-931	10.2	35
72	The Cooling Efficiency of Urban Greenery Coverage in a High-density City. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 329, 012043	0.3	2
71	A Review of Progress and Applications of Pulsed Doppler Wind LiDARs. <i>Remote Sensing</i> , 2019 , 11, 2522	5	24
70	Designing Urban Green Spaces for Older Adults in Asian Cities. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	19
69	The Scales Project, a cross-national dataset on the interpretation of thermal perception scales. <i>Scientific Data</i> , 2019 , 6, 289	8.2	12
68	Assessment of Local Climate Zone Classification Maps of Cities in China and Feasible Refinements. <i>Scientific Reports</i> , 2019 , 9, 18848	4.9	32
67	Spatiotemporal patterns of street-level solar radiation estimated using Google Street View in a high-density urban environment. <i>Building and Environment</i> , 2019 , 148, 547-566	6.5	37
66	Thermal benefits of vertical greening in a high-density city: Case study of Hong Kong. <i>Urban Forestry and Urban Greening</i> , 2019 , 37, 42-55	5.4	42
65	Mapping sky, tree, and building view factors of street canyons in a high-density urban environment. <i>Building and Environment</i> , 2018 , 134, 155-167	6.5	115
64	Performance of Hong Kong's common trees species for outdoor temperature regulation, thermal comfort and energy saving. <i>Building and Environment</i> , 2018 , 137, 157-170	6.5	94

63	Identifying critical building morphological design factors of street-level air pollution dispersion in high-density built environment using mobile monitoring. <i>Building and Environment</i> , 2018 , 128, 248-259	6.5	31
62	Air ventilation assessment under unstable atmospheric stratification - A comparative study for Hong Kong. <i>Building and Environment</i> , 2018 , 130, 1-13	6.5	33
61	GIS-based mapping of Local Climate Zone in the high-density city of Hong Kong. <i>Urban Climate</i> , 2018 , 24, 419-448	6.8	77
60	Large-eddy simulations of pedestrian-level ventilation for assessing a satellite-based approach to urban geometry generation. <i>Graphical Models</i> , 2018 , 95, 29-41	0.9	6
59	China's adaptation to climate & urban climatic changes: A critical review. <i>Urban Climate</i> , 2018 , 23, 352-372	2.8	34
58	Improving satellite aerosol optical Depth-PM2.5 correlations using land use regression with microscale geographic predictors in a high-density urban context. <i>Atmospheric Environment</i> , 2018 , 190, 23-34	5.3	30
57	Evaluating the local climate zone classification in high-density heterogeneous urban environment using mobile measurement. <i>Urban Climate</i> , 2018 , 25, 167-186	6.8	38
56	Evaluation of the social dimension of sustainability in the built environment in poor rural areas of China. <i>Architectural Science Review</i> , 2018 , 61, 319-326	2.6	16
55	PROGRESS IN URBAN GREENERY MITIGATION SCIENCE ASSESSMENT METHODOLOGIES ADVANCED TECHNOLOGIES AND IMPACT ON CITIES. <i>Journal of Civil Engineering and Management</i> , 2018 , 24, 638-671	3	71
54	Defining the environmental performance of neighbourhoods in high-density cities. <i>Building Research and Information</i> , 2018 , 46, 540-551	4.3	8
53	Evaluation of satellite-derived building height extraction by CFD simulations: A case study of neighborhood-scale ventilation in Hong Kong. <i>Landscape and Urban Planning</i> , 2018 , 170, 90-102	7.7	32
52	Regression modelling of radiant fluxes on different view factors under shading in a densely built environment. <i>Architectural Science Review</i> , 2018 , 61, 15-28	2.6	2
51	Modelling the fine-scale spatiotemporal pattern of urban heat island effect using land use regression approach in a megacity. <i>Science of the Total Environment</i> , 2018 , 618, 891-904	10.2	41
50	Creating breathing cities by adopting urban ventilation assessment and wind corridor plan - The implementation in Chinese cities. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018 , 182, 170-188	3.7	56
49	Large-eddy simulations of air ventilation in parametric scenarios: comparative studies of urban form and wind direction. <i>Architectural Science Review</i> , 2018 , 61, 215-225	2.6	10
48	Observational studies of mean radiant temperature across different outdoor spaces under shaded conditions in densely built environment. <i>Building and Environment</i> , 2017 , 114, 397-409	6.5	35
47	A study on the impact of shadow-cast and tree species on in-canyon and neighborhood's thermal comfort. <i>Building and Environment</i> , 2017 , 115, 1-17	6.5	156
46	Regulation of outdoor thermal comfort by trees in Hong Kong. <i>Sustainable Cities and Society</i> , 2017 , 31, 12-25	10.1	120

45	Large-eddy simulations of ventilation for thermal comfort A parametric study of generic urban configurations with perpendicular approaching winds. <i>Urban Climate</i> , 2017 , 20, 202-227	6.8	33
44	Incorporating wind availability into land use regression modelling of air quality in mountainous high-density urban environment. <i>Environmental Research</i> , 2017 , 157, 17-29	7.9	43
43	Planning strategies for roadside tree planting and outdoor comfort enhancement in subtropical high-density urban areas. <i>Building and Environment</i> , 2017 , 120, 93-109	6.5	72
42	Temperature and cooling demand reduction by green-roof types in different climates and urban densities: A co-simulation parametric study. <i>Energy and Buildings</i> , 2017 , 145, 226-237	7	118
41	A semi-empirical model for the effect of trees on the urban wind environment. <i>Landscape and Urban Planning</i> , 2017 , 168, 84-93	7.7	36
40	Characterizing prolonged heat effects on mortality in a sub-tropical high-density city, Hong Kong. <i>International Journal of Biometeorology</i> , 2017 , 61, 1935-1944	3.7	31
39	Aerosol pollution and its potential impacts on outdoor human thermal sensation: East Asian perspectives. <i>Environmental Research</i> , 2017 , 158, 753-758	7.9	8
38	Urban morphology detection and computation for urban climate research. <i>Landscape and Urban Planning</i> , 2017 , 167, 212-224	7.7	93
37	Effects of Unstable Stratification on Ventilation in Hong Kong. <i>Atmosphere</i> , 2017 , 8, 168	2.7	28
36	Spatial Variability of Geriatric Depression Risk in a High-Density City: A Data-Driven Socio-Environmental Vulnerability Mapping Approach. <i>International Journal of Environmental Research and Public Health</i> , 2017 , 14,	4.6	21
35	Fine-Scale Spatial Variability of Pedestrian-Level Particulate Matters in Compact Urban Commercial Districts in Hong Kong. <i>International Journal of Environmental Research and Public Health</i> , 2017 , 14,	4.6	6
34	Urban tree design approaches for mitigating daytime urban heat island effects in a high-density urban environment. <i>Energy and Buildings</i> , 2016 , 114, 265-274	7	211
33	Numerical modelling of mean radiant temperature in high-density sub-tropical urban environment. <i>Energy and Buildings</i> , 2016 , 114, 80-86	7	49
32	A modelling-mapping approach for fine-scale assessment of pedestrian-level wind in high-density cities. <i>Building and Environment</i> , 2016 , 97, 152-165	6.5	21
31	Mapping the urban microclimatic spatial distribution in a sub-tropical high-density urban environment. <i>Architectural Science Review</i> , 2016 , 59, 370-384	2.6	13
30	Urban Ventilation Strategies for Micro Climate Improvement in Subtropical High-density Cities: A Case Study of Tai Po Market in Hong Kong. <i>Urban Planning International</i> , 2016 , 31, 68-75	1.7	3
29	Assessing the Sustainability of the Built Environment in Mountainous Rural Villages in Southwest China. <i>Mountain Research and Development</i> , 2016 , 36, 4	1.4	6
28	Developing Street-Level PM2.5 and PM10 Land Use Regression Models in High-Density Hong Kong with Urban Morphological Factors. <i>Environmental Science & Technology</i> , 2016 , 50, 8178-87	10.3	93

27	Urban air ventilation in high-density cities in the tropics 2016 , 79-110		2
26	Modeling Elderly Accessibility to Urban Green Space in High Density Cities: A Case Study of Hong Kong. <i>Procedia Environmental Sciences</i> , 2016 , 36, 90-97		22
25	Fusion of WorldView-2 Stereo and Multitemporal TerraSAR-X Images for Building Height Extraction in Urban Areas. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015 , 12, 1795-1799	4.1	16
24	Improving air quality in high-density cities by understanding the relationship between air pollutant dispersion and urban morphologies. <i>Building and Environment</i> , 2014 , 71, 245-258	6.5	159
23	GIS-based surface roughness evaluation in the urban planning system to improve the wind environment – A study in Wuhan, China. <i>Urban Climate</i> , 2014 , 10, 585-593	6.8	50
22	Practical application of CFD on environmentally sensitive architectural design at high density cities: A case study in Hong Kong. <i>Urban Climate</i> , 2014 , 8, 57-77	6.8	22
21	Temperature projection in a tropical city using remote sensing and dynamic modeling. <i>Climate Dynamics</i> , 2014 , 42, 2921-2929	4.2	9
20	An investigation of urbanization effect on urban and rural Hong Kong using a 40-year extended temperature record. <i>Landscape and Urban Planning</i> , 2013 , 114, 42-52	7.7	13
19	The application of urban climatic mapping to the urban planning of high-density cities: The case of Kaohsiung, Taiwan. <i>Cities</i> , 2013 , 31, 1-16	5.6	26
18	Simulation of the effect of downtown greenery on thermal comfort in subtropical climate using PET index: a case study in Hong Kong. <i>Architectural Science Review</i> , 2013 , 56, 297-305	2.6	46
17	Effect modification of the association between meteorological variables and mortality by urban climatic conditions in the tropical city of Kaohsiung, Taiwan. <i>Geospatial Health</i> , 2013 , 8, 37-44	2.2	24
16	Sky view factor analysis of street canyons and its implications for daytime intra-urban air temperature differentials in high-rise, high-density urban areas of Hong Kong: a GIS-based simulation approach. <i>International Journal of Climatology</i> , 2012 , 32, 121-136	3.5	226
15	Outdoor thermal comfort study in a sub-tropical climate: a longitudinal study based in Hong Kong. <i>International Journal of Biometeorology</i> , 2012 , 56, 43-56	3.7	195
14	Urban human thermal comfort in hot and humid Hong Kong. <i>Energy and Buildings</i> , 2012 , 55, 51-65	7	188
13	Policies and technicalities providing natural ventilation to domestic spaces for high-density tropical living in Hong Kong. <i>Architectural Science Review</i> , 2012 , 55, 61-70	2.6	0
12	A study on the cooling effects of greening in a high-density city: An experience from Hong Kong. <i>Building and Environment</i> , 2012 , 47, 256-271	6.5	524
11	Building porosity for better urban ventilation in high-density cities - A computational parametric study. <i>Building and Environment</i> , 2012 , 50, 176-189	6.5	140
10	Outdoor thermal comfort and outdoor activities: A review of research in the past decade. <i>Cities</i> , 2012 , 29, 118-125	5.6	316

9	The Wu Zh Qiao Practice - Local Materials Applied in Rural Areas in the West China. <i>Key Engineering Materials</i> , 2012 , 517, 261-268	0.4	
8	LES case study on pedestrian level ventilation in two neighbourhoods in Hong Kong. <i>Meteorologische Zeitschrift</i> , 2012 , 21, 575-589	3.1	58
7	Effect modification of the association between short-term meteorological factors and mortality by urban heat islands in Hong Kong. <i>PLoS ONE</i> , 2012 , 7, e38551	3.7	122
6	Quantitative urban climate mapping based on a geographical database: A simulation approach using Hong Kong as a case study. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2011 , 13, 586-594	7.3	50
5	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> , 2011 , 101, 59-74	7.7	276
4	A study of the wall effect caused by proliferation of high-rise buildings using GIS techniques. <i>Landscape and Urban Planning</i> , 2011 , 102, 245-253	7.7	68
3	Policies and technical guidelines for urban planning of high-density cities - air ventilation assessment (AVA) of Hong Kong. <i>Building and Environment</i> , 2009 , 44, 1478-1488	6.5	308
2	Defining standard skies for Hong Kong. <i>Building and Environment</i> , 2007 , 42, 866-876	6.5	46
1	Dense Cities in the Tropical Zone 259-290		