Yuguo Li

List of Publications by Citations

309 papers	17,309 citations	66 h-index	123 g-index
341 ext. papers	21,749 ext. citations	6.5 avg, IF	7.34 L-index

#	Paper	IF	Citations
309	Respiratory virus shedding in exhaled breath and efficacy of face masks. *Nature Medicine*, **2020**, 26, 676-680	36.5	1108
308	Evidence of airborne transmission of the severe acute respiratory syndrome virus. *New England Journal of Medicine*, **2004**, 350, 1731-9	59.2	826
307	Role of ventilation in airborne transmission of infectious agents in the built environment - a multidisciplinary systematic review. *Indoor Air*, **2007**, 17, 2-18	5.4	585
306	How far droplets can move in indoor environments--revisiting the Wells evaporation-falling curve. *Indoor Air*, **2007**, 17, 211-25	5.4	571
305	Size distribution and sites of origin of droplets expelled from the human respiratory tract during expiratory activities. *Journal of Aerosol Science*, **2009**, 40, 256-269	4.3	538
304	How can airborne transmission of COVID-19 indoors be minimised?. *Environment International*, **2020** , 142, 105832	12.9	525
303	Characterization of expiration air jets and droplet size distributions immediately at the mouth opening. *Journal of Aerosol Science*, **2009**, 40, 122-133	4.3	457
302	Ventilation rates and health: multidisciplinary review of the scientific literature. *Indoor Air*, **2011**, 21, 191-204	5.4	415
301	Recognition of aerosol transmission of infectious agents: a commentary. *BMC Infectious Diseases*, **2019**, 19, 101	4	402
300	Factors involved in the aerosol transmission of infection and control of ventilation in healthcare premises. *Journal of Hospital Infection*, **2006**, 64, 100-14	6.9	385
299	Modality of human expired aerosol size distributions. *Journal of Aerosol Science*, **2011**, 42, 839-851	4.3	330
298	Role of air distribution in SARS transmission during the largest nosocomial outbreak in Hong Kong. *Indoor Air*, **2005**, 15, 83-95	5.4	261
297	Exhaled droplets due to talking and coughing. *Journal of the Royal Society Interface*, **2009**, 6 Suppl 6, S703-14	4.1	255
296	The influence of building height variability on pollutant dispersion and pedestrian ventilation in idealized high-rise urban areas. *Building and Environment*, **2012**, 56, 346-360	6.5	225
295	Airborne spread of infectious agents in the indoor environment. *American Journal of Infection Control*, **2016**, 44, S102-8	3.8	214
294	Cluster of SARS among medical students exposed to single patient, Hong Kong. *Emerging Infectious Diseases*, **2004**, 10, 269-76	10.2	192
293	Indoor transmission of SARS-CoV-2. *Indoor Air*, **2021**, 31, 639-645	5.4	170

292	Exposure to outdoor air pollution during trimesters of pregnancy and childhood asthma, allergic rhinitis, and eczema. *Environmental Research*, **2016**, 150, 119-127	7.9	166
291	Can commonly-used fan-driven air cleaning technologies improve indoor air quality? A literature review. *Atmospheric Environment*, **2011**, 45, 4329-4343	5.3	165
290	An experimental investigation of a solar chimney model with uniform wall heat flux. *Building and Environment*, **2003**, 38, 893-906	6.5	163
289	Dispersion of exhaled droplet nuclei in a two-bed hospital ward with three different ventilation systems. *Indoor Air*, **2006**, 16, 111-28	5.4	162
288	Evaporation and dispersion of respiratory droplets from coughing. *Indoor Air*, **2017**, 27, 179-190	5.4	156
287	Short-range airborne route dominates exposure of respiratory infection during close contact. *Building and Environment*, **2020**, 176, 106859	6.5	154
286	Probable airborne transmission of SARS-CoV-2 in a poorly ventilated restaurant. *Building and Environment*, **2021**, 196, 107788	6.5	151
285	Enhanced spread of expiratory droplets by turbulence in a cough jet. *Building and Environment*, **2015**, 93, 86-96	6.5	150
284	Short-range airborne transmission of expiratory droplets between two people. *Indoor Air*, **2017**, 27, 452-462	5.4	147
283	Natural ventilation induced by combined wind and thermal forces. *Building and Environment*, **2001**, 36, 59-71	6.5	144
282	Dismantling myths on the airborne transmission of severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). *Journal of Hospital Infection*, **2021**, 110, 89-96	6.9	130
281	Advances in wind energy resource exploitation in urban environment: A review. *Renewable and Sustainable Energy Reviews*, **2014**, 37, 613-626	16.2	129
280	Chinese kang as a domestic heating system in rural northern China—A review. *Energy and Buildings*, **2009**, 41, 111-119	7	126
279	The impact of building density and building height heterogeneity on average urban albedo and street surface temperature. *Building and Environment*, **2015**, 90, 146-156	6.5	124
278	Particle deposition in the human lung: Health implications of particulate matter from different sources. *Environmental Research*, **2019**, 169, 237-245	7.9	121
277	Multi-zone modeling of probable SARS virus transmission by airflow between flats in Block E, Amoy Gardens. *Indoor Air*, **2005**, 15, 96-111	5.4	120
276	Cooling load reduction by using thermal mass and night ventilation. *Energy and Buildings*, **2008**, 40, 2052-2058	7	118
275	Probable Evidence of Fecal Aerosol Transmission of SARS-CoV-2 in a High-Rise Building. *Annals of Internal Medicine*, **2020**, 173, 974-980	8	106

274	Airborne transmission of disease in hospitals. *Journal of the Royal Society Interface*, **2009**, 6 Suppl 6, S697-702	4.1	104
273	Quantitative ventilation assessments of idealized urban canopy layers with various urban layouts and the same building packing density. *Building and Environment*, **2014**, 79, 152-167	6.5	102
272	Dispersion of exhalation pollutants in a two-bed hospital ward with a downward ventilation system. *Building and Environment*, **2008**, 43, 344-354	6.5	101
271	Age of air and air exchange efficiency in idealized city models. *Building and Environment*, **2009**, 44, 1714-1723	6.5	99
270	Modelling of the Indoor Environment Particle Dispersion and Deposition. *Indoor Air*, **1998**, 8, 113-122	5.4	97
269	Routes of transmission of influenza A H1N1, SARS CoV, and norovirus in air cabin: Comparative analyses. *Indoor Air*, **2018**, 28, 394-403	5.4	94
268	CFD and ventilation research. *Indoor Air*, **2011**, 21, 442-53	5.4	92
267	Coupling of thermal mass and natural ventilation in buildings. *Energy and Buildings*, **2008**, 40, 979-986	7	92
266	Effect of urban morphology on wind condition in idealized city models. *Atmospheric Environment*, **2009**, 43, 869-878	5.3	91
265	Spatial distribution of infection risk of SARS transmission in a hospital ward. *Building and Environment*, **2009**, 44, 1651-1658	6.5	88
264	Early life exposure to traffic-related air pollution and allergic rhinitis in preschool children. *Respiratory Medicine*, **2016**, 121, 67-73	4.6	84
263	Temporal-spatial analysis of severe acute respiratory syndrome among hospital inpatients. *Clinical Infectious Diseases*, **2005**, 40, 1237-43	11.6	83
262	The urban cool island phenomenon in a high-rise high-density city and its mechanisms. *International Journal of Climatology*, **2017**, 37, 890-904	3.5	79
261	Observing and quantifying airflows in the infection control of aerosol- and airborne-transmitted diseases: an overview of approaches. *Journal of Hospital Infection*, **2011**, 77, 213-22	6.9	78
260	Possible role of aerosol transmission in a hospital outbreak of influenza. *Clinical Infectious Diseases*, **2010**, 51, 1176-83	11.6	78
259	Natural ventilation for reducing airborne infection in hospitals. *Building and Environment*, **2010**, 45, 559-565	6.5	78
258	Predicting super spreading events during the 2003 severe acute respiratory syndrome epidemics in Hong Kong and Singapore. *American Journal of Epidemiology*, **2004**, 160, 719-28	3.8	78
257	Role of fomites in SARS transmission during the largest hospital outbreak in Hong Kong. *PLoS ONE*, **2017**, 12, e0181558	3.7	77

256	The influence of human walking on the flow and airborne transmission in a six-bed isolation room: Tracer gas simulation. *Building and Environment*, **2014**, 77, 119-134	6.5	75
255	Door-opening motion can potentially lead to a transient breakdown in negative-pressure isolation conditions: the importance of vorticity and buoyancy airflows. *Journal of Hospital Infection*, **2005**, 61, 283-6	6.9	75
254	A paradigm shift to combat indoor respiratory infection. *Science*, **2021**, 372, 689-691	33.3	73
253	One-Component Supramolecular Filament Hydrogels as Theranostic Label-Free Magnetic Resonance Imaging Agents. *ACS Nano*, **2017**, 11, 797-805	16.7	72
252	Removal of exhaled particles by ventilation and deposition in a multibed airborne infection isolation room. *Indoor Air*, **2010**, 20, 284-97	5.4	72
251	Evidence for probable aerosol transmission of SARS-CoV-2 in a poorly ventilated restaurant		71
250	A new approach for measuring predicted mean vote (PMV) and standard effective temperature (SET*). *Building and Environment*, **2003**, 38, 33-44	6.5	70
249	Prediction of natural ventilation in buildings with large openings. *Building and Environment*, **2000**, 35, 191-206	6.5	70
248	Dispersion of coughed droplets in a fully-occupied high-speed rail cabin. *Building and Environment*, **2012**, 47, 58-66	6.5	68
247	Buoyancy-driven natural ventilation in a thermally stratified one-zone building. *Building and Environment*, **2000**, 35, 207-214	6.5	68
246	Outdoor air pollution, meteorological conditions and indoor factors in dwellings in relation to sick building syndrome (SBS) among adults in China. *Science of the Total Environment*, **2016**, 560-561, 186-96	10.2	68
245	Age of air and air exchange efficiency in high-rise urban areas and its link to pollutant dilution. *Atmospheric Environment*, **2011**, 45, 5572-5585	5.3	66
244	Vertical Temperature Profiles in Rooms Ventilated by Displacement: Full-Scale Measurement and Nodal Modelling. *Indoor Air*, **1992**, 2, 225-243	5.4	66
243	Toilets dominate environmental detection of severe acute respiratory syndrome coronavirus 2 in a hospital. *Science of the Total Environment*, **2021**, 753, 141710	10.2	66
242	Ventilation strategy and air change rates in idealized high-rise compact urban areas. *Building and Environment*, **2010**, 45, 2754-2767	6.5	65
241	Nonlinear coupling between thermal mass and natural ventilation in buildings. *International Journal of Heat and Mass Transfer*, **2003**, 46, 1251-1264	4.9	64
240	A combined temperature scale for analyzing natural convection in rectangular enclosures with discrete wall heat sources. *International Journal of Heat and Mass Transfer*, **2002**, 45, 3437-3446	4.9	63
239	Human Cough as a Two-Stage Jet and Its Role in Particle Transport. *PLoS ONE*, **2017**, 12, e0169235	3.7	62

238	On the contribution of mean flow and turbulence to city breathability: the case of long streets with tall buildings. *Science of the Total Environment*, **2012**, 416, 362-73	10.2	61
237	City ventilation of Hong Kong at no-wind conditions. *Atmospheric Environment*, **2009**, 43, 3111-3121	5.3	61
236	Wavenumber-Extended High-Order Upwind-Biased Finite-Difference Schemes for Convective Scalar Transport. *Journal of Computational Physics*, **1997**, 133, 235-255	4.1	61
235	Calculation of wind-driven cross ventilation in buildings with large openings. *Journal of Wind Engineering and Industrial Aerodynamics*, **2006**, 94, 925-947	3.7	60
234	A balance-point method for assessing the effect of natural ventilation on indoor particle concentrations. *Atmospheric Environment*, **2003**, 37, 4277-4285	5.3	59
233	Interaction between discrete heat sources in horizontal natural convection enclosures. *International Journal of Heat and Mass Transfer*, **2002**, 45, 5117-5132	4.9	57
232	Predicting urban heat island circulation using CFD. *Building and Environment*, **2016**, 99, 82-97	6.5	56
231	A study of the probable transmission routes of MERS-CoV during the first hospital outbreak in the Republic of Korea. *Indoor Air*, **2018**, 28, 51-63	5.4	54
230	Wind Conditions in Idealized Building Clusters: Macroscopic Simulations Using a Porous Turbulence Model. *Boundary-Layer Meteorology*, **2010**, 136, 129-159	3.4	53
229	Some examples of solution multiplicity in natural ventilation. *Building and Environment*, **2001**, 36, 851-858	6.5	53
228	Label-free CEST MRI Detection of Citicoline-Liposome Drug Delivery in Ischemic Stroke. *Theranostics*, **2016**, 6, 1588-600	12.1	53
227	Theoretical analysis of the motion and evaporation of exhaled respiratory droplets of mixed composition. *Journal of Aerosol Science*, **2011**, 42, 1-10	4.3	51
226	Experimental and numerical studies of flows through and within high-rise building arrays and their link to ventilation strategy. *Journal of Wind Engineering and Industrial Aerodynamics*, **2011**, 99, 1036-1055	3.7	51
225	Risk of cross-infection in a hospital ward with downward ventilation. *Building and Environment*, **2010**, 45, 2008-2014	6.5	51
224	Experimental and CFD evidence of multiple solutions in a naturally ventilated building. *Indoor Air*, **2004**, 14, 43-54	5.4	51
223	Indoor transmission of SARS-CoV-2		50
222	Numerical evaluation of wind-induced dispersion of pollutants around a building. *Journal of Wind Engineering and Industrial Aerodynamics*, **1997**, 67-68, 757-766	3.7	48
221	Defining the sizes of airborne particles that mediate influenza transmission in ferrets. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E2386-E2392	11.5	47

220	Passive urban ventilation by combined buoyancy-driven slope flow and wall flow: Parametric CFD studies on idealized city models. *Atmospheric Environment*, **2011**, 45, 5946-5956	5.3	47
219	Transmission of Influenza A in a Student Office Based on Realistic Person-to-Person Contact and Surface Touch Behaviour. *International Journal of Environmental Research and Public Health*, **2018**, 15,	4.6	44
218	A dextran-based probe for the targeted magnetic resonance imaging of tumours expressing prostate-specific membrane antigen. *Nature Biomedical Engineering*, **2017**, 1, 977-982	19	44
217	Logistic growth of a surface contamination network and its role in disease spread. *Scientific Reports* , **2017**, 7, 14826	4.9	44
216	Intake fraction of nonreactive motor vehicle exhaust in Hong Kong. *Atmospheric Environment*, **2010**, 44, 1913-1918	5.3	44
215	Multi-route transmission potential of SARS-CoV-2 in healthcare facilities. *Journal of Hazardous Materials*, **2021**, 402, 123771	12.8	44
214	Derivation of capture efficiency of kitchen range hoods in a confined space. *Building and Environment*, **1996**, 31, 461-468	6.5	43
213	Human thermal sensation and comfort in a non-uniform environment with personalized heating. *Science of the Total Environment*, **2017**, 578, 242-248	10.2	42
212	Thermal storage performance analysis on Chinese kangs. *Energy and Buildings*, **2009**, 41, 452-459	7	42
211	Role of two-way airflow owing to temperature difference in severe acute respiratory syndrome transmission: revisiting the largest nosocomial severe acute respiratory syndrome outbreak in Hong Kong. *Journal of the Royal Society Interface*, **2011**, 8, 699-710	4.1	42
210	Impinging round jet studies in a cylindrical enclosure with and without a porous layer: Part IFlow visualisations and simulations. *Chemical Engineering Science*, **2001**, 56, 3855-3878	4.4	42
209	Pollutant dispersion in idealized city models with different urban morphologies. *Atmospheric Environment*, **2009**, 43, 6011-6025	5.3	41
208	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	10.2	41
207	Potential airborne transmission between two isolation cubicles through a shared anteroom. *Building and Environment*, **2015**, 89, 264-278	6.5	40
206	Wind weakening in a dense high-rise city due to over nearly five decades of urbanization. *Building and Environment*, **2018**, 138, 207-220	6.5	40
205	Predicting and understanding temporal 3D exterior surface temperature distribution in an ideal courtyard. *Building and Environment*, **2012**, 57, 38-48	6.5	40
204	Enhancement of natural ventilation in a solar house with a solar chimney and a solid adsorption cooling cavity. *Solar Energy*, **2003**, 74, 65-75	6.8	39
203	Quantification of Influenza Virus RNA in Aerosols in Patient Rooms. *PLoS ONE*, **2016**, 11, e0148669	3.7	38

202	Wind conditions and ventilation in high-rise long street models. *Building and Environment*, **2010**, 45, 1353-1365	6.5	36
201	CEST theranostics: label-free MR imaging of anticancer drugs. *Oncotarget*, **2016**, 7, 6369-78	3.3	36
200	Natural convection flows along a 16-storey high-rise building. *Building and Environment*, **2016**, 107, 215-225	6.5	36
199	Parental stress and air pollution increase childhood asthma in China. *Environmental Research*, **2018**, 165, 23-31	7.9	35
198	Seasonal variation of window opening behaviors in two naturally ventilated hospital wards. *Building and Environment*, **2018**, 130, 85-93	6.5	35
197	Effects of anthropogenic heat due to air-conditioning systems on an extreme high temperature event in Hong Kong. *Environmental Research Letters*, **2018**, 13, 034015	6.2	35
196	Experimental verification of tracking algorithm for dynamically-releasing single indoor contaminant. *Building Simulation*, **2012**, 5, 5-14	3.9	34
195	Buoyancy-driven displacement natural ventilation in a single-zone building with three-level openings. *Building and Environment*, **2002**, 37, 295-303	6.5	34
194	Changes in local travel behaviour before and during the COVID-19 pandemic in Hong Kong. *Cities*, **2021**, 112, 103139	5.6	33
193	Close contact behavior in indoor environment and transmission of respiratory infection. *Indoor Air*, **2020**, 30, 645-661	5.4	32
192	Bacterial survival in evaporating deposited droplets on a teflon-coated surface. *Applied Microbiology and Biotechnology*, **2006**, 73, 703-12	5.7	32
191	Investigating potential of natural driving forces for ventilation in four major cities in China. *Building and Environment*, **2005**, 40, 738-746	6.5	32
190	A human behavior integrated hierarchical model of airborne disease transmission in a large city. *Building and Environment*, **2018**, 127, 211-220	6.5	32
189	Development of a Three-Dimensional Urban Energy Model for Predicting and Understanding Surface Temperature Distribution. *Boundary-Layer Meteorology*, **2013**, 149, 303-321	3.4	31
188	Thermal conditions and ventilation in an ideal city model of Hong Kong. *Energy and Buildings*, **2011**, 43, 1139-1148	7	31
187	Residential Kitchen Range Hoods Buoyancy-Capture Principle and Capture Efficiency Revisited. *Indoor Air*, **1997**, 7, 151-157	5.4	31
186	Numerical prediction of airflow and heat-radiation interaction in a room with displacement ventilation. *Energy and Buildings*, **1993**, 20, 27-43	7	30
185	Impact of land surface heterogeneity on urban heat island circulation and sea-land breeze circulation in Hong Kong. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 4332-4352	4.4	29

184	Interaction of multiple urban heat island circulations under idealised settings. *Building and Environment*, **2018**, 134, 10-20	6.5	29
183	ASSESSMENT OF HIGHER-ORDER UPWIND SCHEMES INCORPORATING FCT FOR CONVECTION-DOMINATEDPROBLEMS. *Numerical Heat Transfer, Part B: Fundamentals*, **1995**, 27, 1-21	1.3	29
182	Wind driven natural ventilation in the idealized building block arrays with multiple urban morphologies and unique package building density. *Energy and Buildings*, **2017**, 155, 324-338	7	28
181	Effects of thermal radiation on airflow with displacement ventilation: an experimental investigation. *Energy and Buildings*, **1993**, 19, 263-274	7	28
180	A New Convective Velocity Scale for Studying Diurnal Urban Heat Island Circulation. *Journal of Applied Meteorology and Climatology*, **2016**, 55, 2151-2164	2.7	27
179	Carbon Dots as a New Class of Diamagnetic Chemical Exchange Saturation Transfer (diaCEST) MRI Contrast Agents. *Angewandte Chemie - International Edition*, **2019**, 58, 9871-9875	16.4	26
178	A numerical method for two-phase flows with an interface. *Environmental Modelling and Software*, **1998**, 13, 247-255	5.2	26
177	Toilets dominate environmental detection of SARS-CoV-2 virus in a hospital		26
176	Insufficient ventilation led to a probable long-range airborne transmission of SARS-CoV-2 on two buses. *Building and Environment*, **2022**, 207, 108414	6.5	25
175	Effects of Human Behavior Changes During the Coronavirus Disease 2019 (COVID-19) Pandemic on Influenza Spread in Hong Kong. *Clinical Infectious Diseases*, **2021**, 73, e1142-e1150	11.6	25
174	Analysis Methods for Natural and Hybrid Ventilation - a Critical Literature Review and Recent Developments. *International Journal of Ventilation*, **2003**, 1, 3-20	1.1	24
173	Building Ventilation as an Effective Disease Intervention Strategy in a Dense Indoor Contact Network in an Ideal City. *PLoS ONE*, **2016**, 11, e0162481	3.7	24
172	Health effects of physical activity as predicted by particle deposition in the human respiratory tract. *Science of the Total Environment*, **2019**, 657, 819-826	10.2	24
171	Surface touch and its network growth in a graduate student office. *Indoor Air*, **2018**, 28, 963-972	5.4	24
170	Pathway using WUDAPT's Digital Synthetic City tool towards generating urban canopy parameters for multi-scale urban atmospheric modeling. *Urban Climate*, **2019**, 28, 100459	6.8	23
169	Particle removal efficiency of the portable HEPA air cleaner in a simulated hospital ward. *Building Simulation*, **2010**, 3, 215-224	3.9	23
168	Transmission of influenza A in human beings. *Lancet Infectious Diseases, The*, **2007**, 7, 758; author reply 761-3	25.5	23
167	Evidence for lack of transmission by close contact and surface touch in a restaurant outbreak of COVID-19. *Journal of Infection*, **2021**, 83, 207-216	18.9	23

166	The lock-up phenomenon of exhaled flow in a stable thermally-stratified indoor environment. *Building and Environment*, **2017**, 116, 246-256	6.5	22
165	Association between prenatal exposure to industrial air pollution and onset of early childhood ear infection in China. *Atmospheric Environment*, **2017**, 157, 18-26	5.3	22
164	Non-uniform ground-level wind patterns in a heat dome over a uniformly heated non-circular city. *International Journal of Heat and Mass Transfer*, **2018**, 124, 233-246	4.9	22
163	Dispersion and settling characteristics of evaporating droplets in ventilated room. *Building and Environment*, **2007**, 42, 1011-1017	6.5	22
162	Airborne pollutant dilution inside the deep street canyons subjecting to thermal buoyancy driven flows: Effects of representative urban skylines. *Building and Environment*, **2019**, 149, 592-606	6.5	22
161	The impact of building operations on urban heat/cool islands under urban densification: A comparison between naturally-ventilated and air-conditioned buildings. *Applied Energy*, **2019**, 235, 129-138	10.7	22
160	On the asymmetry of the urban daily air temperature cycle. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 5625-5635	4.4	21
159	Thermal buoyancy driven canyon airflows inside the compact urban blocks saturated with very weak synoptic wind: Plume merging mechanism. *Building and Environment*, **2018**, 131, 32-43	6.5	21
158	Thermal Mass Design in Buildings Heavy or Light?. *International Journal of Ventilation*, **2006**, 5, 143-150	1.1	21
157	Impinging round jet studies in a cylindrical enclosure with and without a porous layer: Part II DV measurements and simulations. *Chemical Engineering Science*, **2001**, 56, 3879-3892	4.4	21
156	Effect of city shape on urban wind patterns and convective heat transfer in calm and stable background conditions. *Building and Environment*, **2019**, 162, 106288	6.5	20
155	Macroscopic simulations of turbulent flows through high-rise building arrays using a porous turbulence model. *Building and Environment*, **2012**, 49, 41-54	6.5	20
154	Heatstroke at home: Prediction by thermoregulation modeling. *Building and Environment*, **2018**, 137, 147-156	6.5	20
153	Buoyancy and turbulence-driven atmospheric circulation over urban areas. *Journal of Environmental Sciences*, **2017**, 59, 63-71	6.4	19
152	Exploring surface cleaning strategies in hospital to prevent contact transmission of methicillin-resistant Staphylococcus aureus. *BMC Infectious Diseases*, **2017**, 17, 85	4	19
151	Horizontal extent of the urban heat dome flow. *Scientific Reports*, **2017**, 7, 11681	4.9	19
150	Airborne or Fomite Transmission for Norovirus? A Case Study Revisited. *International Journal of Environmental Research and Public Health*, **2017**, 14,	4.6	19
149	Absence of detectable influenza RNA transmitted via aerosol during various human respiratory activities--experiments from Singapore and Hong Kong. *PLoS ONE*, **2014**, 9, e107338	3.7	19

148	Flow mechanisms and flow capacity in idealized long-street city models. *Building and Environment*, **2010**, 45, 1042-1053	6.5	19
147	Natural ventilation in an enclosure induced by a heat source distributed uniformly over a vertical wall. *Building and Environment*, **2001**, 36, 493-501	6.5	19
146	Probable transmission routes of the influenza virus in a nosocomial outbreak. *Epidemiology and Infection*, **2018**, 146, 1114-1122	4.3	18
145	CFD modelling of the effect of fire source geometry and location on smoke flow multiplicity. *Building Simulation*, **2010**, 3, 205-214	3.9	18
144	Evidence of airborne transmission of SARS. *New England Journal of Medicine*, **2004**, 351, 609-11; author reply 609-11	59.2	18
143	Multi-route respiratory infection: When a transmission route may dominate. *Science of the Total Environment*, **2021**, 752, 141856	10.2	18
142	Infection Spread and High-Resolution Detection of Close Contact Behaviors. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	17
141	Physical factors that affect microbial transfer during surface touch. *Building and Environment*, **2019**, 158, 28-38	6.5	16
140	Suitability of acrylic and copper globe thermometers for diurnal outdoor settings. *Building and Environment*, **2015**, 89, 279-294	6.5	16
139	Engineering control of respiratory infection and low-energy design of healthcare facilities. *Science and Technology for the Built Environment*, **2015**, 21, 25-34	1.8	16
138	The dynamic fomite transmission of Methicillin-resistant Staphylococcus aureus in hospitals and the possible improved intervention methods. *Building and Environment*, **2019**, 161, 106246	6.5	16
137	Impacts of urban microclimate on summertime sensible and latent energy demand for cooling in residential buildings of Hong Kong. *Energy*, **2019**, 189, 116208	7.9	16
136	Flow bifurcation due to opposing buoyancy in two vertically connected open cavities. *International Journal of Heat and Mass Transfer*, **2006**, 49, 3298-3312	4.9	16
135	Practical Indicators for Risk of Airborne Transmission in Shared Indoor Environments and Their Application to COVID-19 Outbreaks.. *Environmental Science & Technology*, **2022**,	10.3	16
134	High and low temperatures aggravate airway inflammation of asthma: Evidence in a mouse model. *Environmental Pollution*, **2020**, 256, 113433	9.3	16
133	Urban heat island circulations of an idealized circular city as affected by background wind speed. *Building and Environment*, **2019**, 148, 433-447	6.5	16
132	Combined effects of traffic air pollution and home environmental factors on preterm birth in China. *Ecotoxicology and Environmental Safety*, **2019**, 184, 109639	7	15
131	Estimating equilibration times and heating/cooling rates in heat treatment of workpieces with arbitrary geometry. *Journal of Materials Engineering and Performance*, **2000**, 9, 62-71	1.6	15

130	Experimental investigation of near-field stream-wise flow development and spatial structure in triple buoyant plumes. *Building and Environment*, **2019**, 149, 79-89	6.5	15
129	What is the risk of acquiring SARS-CoV-2 from the use of public toilets?. *Science of the Total Environment*, **2021**, 792, 148341	10.2	15
128	The effect of building spacing on near-field temporal evolution of triple building plumes. *Building and Environment*, **2017**, 122, 35-49	6.5	14
127	PIV based POD analysis of coherent structures in flow patterns generated by triple interacting buoyant plumes. *Building and Environment*, **2019**, 158, 165-181	6.5	14
126	Impact of intervention methods on COVID-19 transmission in Shenzhen. *Building and Environment*, **2020**, 180, 107106	6.5	14
125	Potential impact of a ventilation intervention for influenza in the context of a dense indoor contact network in Hong Kong. *Science of the Total Environment*, **2016**, 569-570, 373-381	10.2	14
124	Transmission routes of Covid-19 virus in the Diamond Princess Cruise ship		14
123	Early-life exposure to air pollution and childhood allergic diseases: an update on the link and its implications. *Expert Review of Clinical Immunology*, **2020**, 16, 813-827	5.1	14
122	Possible user-dependent CFD predictions of transitional flow in building ventilation. *Building and Environment*, **2016**, 99, 130-141	6.5	13
121	Two-dimensional numerical simulation of wind driven ventilation across a building enclosure with two free apertures on the rear side: Vortex shedding and pumping flow mechanism. *Journal of Wind Engineering and Industrial Aerodynamics*, **2018**, 179, 449-462	3.7	13
120	Implementation of some higher-order convection schemes on non-uniform grids. *International Journal for Numerical Methods in Fluids*, **1995**, 21, 1201-1220	1.9	13
119	Characterizing dynamic transmission of contaminants on a surface touch network. *Building and Environment*, **2018**, 129, 107-116	6.5	12
118	Phenols as Diamagnetic T -Exchange Magnetic Resonance Imaging Contrast Agents. *Chemistry - A European Journal*, **2018**, 24, 1259-1263	4.8	12
117	Unsteady large-scale flow patterns and dynamic vortex movement in near-field triple buoyant plumes. *Building and Environment*, **2018**, 142, 288-300	6.5	12
116	Computational fluid dynamics predictions of non-isothermal ventilation flow-How can the user factor be minimized?. *Indoor Air*, **2018**, 28, 866-880	5.4	12
115	CFD simulation of pumping flow mechanism of an urban building affected by an upstream building in high Reynolds flows. *Energy and Buildings*, **2019**, 202, 109330	7	12
114	Interventions to Reduce Personal Exposures to Air Pollution: A Primer for Health Care Providers. *Global Heart*, **2019**, 14, 47-60	2.9	12
113	Assessing the risk of downwind spread of avian influenza virus via airborne particles from an urban wholesale poultry market. *Building and Environment*, **2018**, 127, 120-126	6.5	12

112	Revisiting physical distancing threshold in indoor environment using infection-risk-based modeling. *Environment International*, **2021**, 153, 106542	12.9	12
111	The urban moisture island phenomenon and its mechanisms in a high-rise high-density city. *International Journal of Climatology*, **2021**, 41, E150	3.5	12
110	Numerical modeling of particle deposition in ferret airways: A comparison with humans. *Aerosol Science and Technology*, **2017**, 51, 477-487	3.4	11
109	Human behavior during close contact in a graduate student office. *Indoor Air*, **2019**, 29, 577-590	5.4	11
108	Detection of Influenza and Other Respiratory Viruses in Air Sampled From a University Campus: A Longitudinal Study. *Clinical Infectious Diseases*, **2020**, 70, 850-858	11.6	11
107	Deposition of droplets from the trachea or bronchus in the respiratory tract during exhalation: A steady-state numerical investigation. *Aerosol Science and Technology*, **2020**, 54, 869-879	3.4	11
106	Experimental modelling of buoyancy-driven flows in buildings using a fine-bubble technique. *Building and Environment*, **2001**, 36, 447-455	6.5	11
105	Smoke flow bifurcation due to opposing buoyancy in two horizontally connected compartments. *Fire Safety Journal*, **2013**, 59, 62-75	3.3	10
104	Nonlinear Dynamic Analysis of Natural Ventilation in a Two-Zone Building: Part A—Theoretical Analysis. *HVAC and R Research*, **2006**, 12, 231-255		10
103	Hand hygiene and surface cleaning should be paired for prevention of fomite transmission. *Indoor Air*, **2020**, 30, 49-59	5.4	10
102	Near-field merging and penetration of triple starting plumes from volumetric heat sources in a calm environment. *International Journal of Heat and Mass Transfer*, **2017**, 115, 1321-1333	4.9	9
101	Wind driven pumping fluid flow and turbulent mean oscillation across high-rise building enclosures with multiple naturally ventilated apertures. *Sustainable Cities and Society*, **2019**, 50, 101619	10.1	9
100	Wind-driven pumping flow ventilation of highrise buildings: Effects of upstream building arrangements and opening area ratios. *Science of the Total Environment*, **2020**, 722, 137924	10.2	9
99	Most self-touches are with the nondominant hand. *Scientific Reports*, **2020**, 10, 10457	4.9	9
98	Equilibrium of particle distribution on surfaces due to touch. *Building and Environment*, **2018**, 143, 461-472	6.5	9
97	A combined fully-resolved and porous approach for building cluster wind flows. *Building Simulation*, **2017**, 10, 97-109	3.9	9
96	Challenges for Modeling Energy Use in High-rise Office Buildings in Hong Kong. *Procedia Engineering*, **2015**, 121, 513-520		9
95	Evaluation of intervention strategies in schools including ventilation for influenza transmission control. *Building Simulation*, **2012**, 5, 29-37	3.9	9

94	Achieving Natural and Hybrid Ventilation in Practice. *International Journal of Ventilation*, **2006**, 5, 115-130	1.1	9
93	City-scale morphological influence on diurnal urban air temperature. *Building and Environment*, **2020**, 169, 106527	6.5	9
92	Real human surface touch behavior based quantitative analysis on infection spread via fomite route in an office. *Building and Environment*, **2021**, 191, 107578	6.5	9
91	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	4.9	8
90	Increased infection severity in downstream cities in infectious disease transmission and tourists surveillance analysis. *Journal of Theoretical Biology*, **2019**, 470, 20-29	2.3	8
89	Harmonic analysis of 130-year hourly air temperature in Hong Kong: detecting urban warming from the perspective of annual and daily cycles. *Climate Dynamics*, **2018**, 51, 613-625	4.2	8
88	Designing Thermal Mass in Naturally Ventilated Buildings. *International Journal of Ventilation*, **2004**, 2, 313-324	1.1	8
87	Urban plume characteristics under various wind speed, heat flux, and stratification conditions. *Atmospheric Environment*, **2020**, 239, 117774	5.3	8
86	Diurnal variation of natural convective wall flows and the resulting air change rate in a homogeneous urban canopy layer. *Energy and Buildings*, **2017**, 153, 201-208	7	7
85	Interacting urban heat island circulations as affected by weak background wind. *Building and Environment*, **2019**, 160, 106224	6.5	7
84	A Comparison of Infection Venues of COVID-19 Case Clusters in Northeast China. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	7
83	Presence of Influenza Virus on Touch Surfaces in Kindergartens and Primary Schools. *Journal of Infectious Diseases*, **2020**, 222, 1329-1333	7	7
82	Chinese kangs and building energy consumption. *Science Bulletin*, **2009**, 54, 992-1002	10.6	7
81	CFD MODELLING OF NATURAL CONVECTION HEAT AND MASS TRANSFER IN HYGROSCOPIC POROUS MEDIA. *Drying Technology*, **2000**, 18, 2175-2201	2.6	7
80	Conditions for transition from a plume to a dome above a heated horizontal area. *International Journal of Heat and Mass Transfer*, **2020**, 156, 119868	4.9	7
79	Lack of cross-transmission of SARS-CoV-2 between passenger's cabins on the cruise ship. *Building and Environment*, **2021**, 198, 107839	6.5	7
78	Mean shear flow in recirculating turbulent urban convection and the plume-puff eddy structure below stably stratified inversion layers. *Theoretical and Applied Climatology*, **2019**, 135, 1485-1499	3	7
77	Stone forest as a small-scale field model for the study of urban climate. *International Journal of Climatology*, **2018**, 38, 3723-3731	3.5	7

76	Analysis of efficacy of intervention strategies for COVID-19 transmission: A case study of Hong Kong. *Environment International*, **2021**, 156, 106723	12.9	7
75	Extended short-range airborne transmission of respiratory infections. *Journal of Hazardous Materials*, **2022**, 422, 126837	12.8	7
74	Urban heat island circulations over the Beijing-Tianjin region under calm and fair conditions. *Building and Environment*, **2020**, 180, 107063	6.5	6
73	The Diurnal Cycle of Urban Thermal Environment in Scale-model Street Canyons by Outdoor Field Measurement. *Procedia Engineering*, **2017**, 198, 743-757		6
72	Multiple Solutions of Smoke Flow in a Building with an Opposing Wind. *International Journal of Ventilation*, **2010**, 9, 99-144	1.1	6
71	An exploration of the political, social, economic and cultural factors affecting how different global regions initially reacted to the COVID-19 pandemic.. *Interface Focus*, **2022**, 12, 20210079	3.9	6
70	Natural convection over vertical and horizontal heated flat surfaces: A review of recent progress focusing on underpinnings and implications for heat transfer and environmental applications. *Physics of Fluids*, **2021**, 33, 101301	4.4	6
69	Poor ventilation worsens short-range airborne transmission of respiratory infection. *Indoor Air*, **2021**,	5.4	6
68	Modeling and Experimental Validation of Microbial Transfer via Surface Touch. *Environmental Science & Technology*, **2021**, 55, 4148-4161	10.3	6
67	Correlation between the normal position of a particle on a rough surface and the van der Waals force. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 585, 124096	5.1	6
66	Practical Indicators for Risk of Airborne Transmission in Shared Indoor Environments and their Application to COVID-19 Outbreaks		6
65	What dominates personal exposure? Ambient airflow pattern or local human thermal plume. *Building and Environment*, **2021**, 196, 107790	6.5	6
64	The Street Air Warming Phenomenon in a High-Rise Compact City. *Atmosphere*, **2018**, 9, 402	2.7	6
63	New sequential-touch method to determine bacterial contact transfer rate from finger to surface. *Journal of Applied Microbiology*, **2019**, 127, 605-615	4.7	5
62	Frequent recovery of influenza A but not influenza B virus RNA in aerosols in pediatric patient rooms. *Indoor Air*, **2020**, 30, 805-815	5.4	5
61	Heatstroke recovery at home as predicted by human thermoregulation modeling. *Building and Environment*, **2020**, 173, 106752	6.5	5
60	Water tank modelling of variations in inversion breakup over a circular city. *Building and Environment*, **2019**, 164, 106342	6.5	5
59	Free vent boundary conditions for thermal buoyancy driven laminar flows inside open building enclosures. *Building and Environment*, **2017**, 111, 10-23	6.5	5

58	Experimental Assessment on Heat Transfer and Smoke Flow Characteristics of a Typical Elevated Chinese Kang. *International Journal of Green Energy*, **2015**, 12, 1178-1188	3	5
57	How can ventilation be improved on public transportation buses? Insights from CO measurements. *Environmental Research*, **2021**, 112451	7.9	5
56	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.. *Journal of Hazardous Materials*, **2021**, 425, 128051	12.8	5
55	Weakening personal protective behavior by Chinese university students after COVID-19 vaccination. *Building and Environment*, **2021**, 206, 108367	6.5	5
54	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	12.8	5
53	Experimental study of thermal plumes generated by a cluster of high-rise compact buildings under moderate background wind conditions. *Building and Environment*, **2020**, 181, 107076	6.5	4
52	Nonlinear Dynamic Aalysis of Natural Ventilation in a Two-Zone Building: Part BCFD Simulations. *HVAC and R Research*, **2006**, 12, 257-278		4
51	Spurious Numerical Solutions in Coupled Natural Ventilation and Thermal Analyses. *International Journal of Ventilation*, **2002**, 1, 1-12	1.1	4
50	AN ANISOTROPIC LOCAL GRID REFINEMENT METHOD FOR FLUID FLOW SIMULATION. *Numerical Heat Transfer, Part B: Fundamentals*, **1996**, 30, 195-215	1.3	4
49	General flow and thermal boundary conditions in indoor air flow simulation. *Building and Environment*, **1994**, 29, 275-281	6.5	4
48	Investigating the urban heat and cool island effects during extreme heat events in high-density cities: A case study of Hong Kong from 2000 to 2018. *International Journal of Climatology*,	3.5	4
47	Quantitative city ventilation evaluation for urban canopy under heat island circulation without geostrophic winds: Multi-scale CFD model and parametric investigations. *Building and Environment*, **2021**, 196, 107793	6.5	4
46	Transmission routes of influenza A(H1N1)pdm09: analyses of inflight outbreaks. *Epidemiology and Infection*, **2018**, 146, 1731-1739	4.3	4
45	High spatial-resolution classification of urban surfaces using a deep learning method. *Building and Environment*, **2021**, 200, 107949	6.5	4
44	Surface touch network structure determines bacterial contamination spread on surfaces and occupant exposure. *Journal of Hazardous Materials*, **2021**, 416, 126137	12.8	4
43	COVID-19 Vaccination Did Not Change the Personal Protective Behaviors of Healthcare Workers in China.. *Frontiers in Public Health*, **2021**, 9, 777426	6	4
42	Low re-inhalation of the exhaled flow during normal nasal breathing in a pediatric airway replica. *Building and Environment*, **2016**, 97, 40-47	6.5	3
41	Surface Temperature Distribution of Chinese Kangs. *International Journal of Green Energy*, **2010**, 7, 347-360		3

40	Thermal and energy analysis of a Chinese kang. *Frontiers of Energy and Power Engineering in China*, **2010**, 4, 84-92		3
39	Particle transport in a bottom-feed separation vessel. *Applied Mathematical Modelling*, **1998**, 22, 1023-1036	4.5	3
38	NONLINEAR RESONANCE AND QUASI-PERIODIC SOLUTIONS FOR VENTILATION FLOWS IN A SINGLE OPENING ENCLOSURE. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2005**, 15, 1801-1808	2	3
37	High attack rate in a Tong Lau house outbreak of COVID-19 with subdivided units in Hong Kong.. *Interface Focus*, **2022**, 12, 20210063	3.9	3
36	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	12.8	3
35	Short-range airborne route dominates exposure of respiratory infection during close contact		3
34	Investigations of high-density urban boundary layer under summer prevailing wind conditions with Doppler LiDAR: A case study in Hong Kong. *Urban Climate*, **2021**, 38, 100884	6.8	3
33	Dual steady flow solutions of heat and pollutant removal from a slot ventilated welding enclosure containing a bottom heating source. *International Journal of Heat and Mass Transfer*, **2019**, 132, 11-24	4.9	3
32	Deposition of bronchiole-originated droplets in the lower airways during exhalation. *Journal of Aerosol Science*, **2020**, 142, 105524	4.3	2
31	A Simple Daily Cycle Temperature Boundary Condition for Ground Surfaces in CFD Predictions of Urban Wind Flows. *Journal of Applied Meteorology and Climatology*, **2017**, 56, 2963-2980	2.7	2
30	Effects of Urban Ventilation Patterns on the Carbon Monoxide Concentration in a High-Rise Mega City. *International Journal of Ventilation*, **2011**, 10, 239-250	1.1	2
29	Multiple Solutions in a Building with Four Openings Ventilated by Combined Forces. *Indoor and Built Environment*, **2005**, 14, 347-358	1.8	2
28	Simulation of room flows with small ventilation openings by a local grid-refinement technique. *Building Services Engineering Research and Technology*, **1994**, 15, 1-10	2.3	2
27	HIGH-RAYLEIGH-NUMBER NATURAL CONVECTION IN AN ENCLOSURE CONTAINING A POROUS LAYER **1998**,		2
26	Solution Multiplicity of Smoke Flows in a Simple Building. *Fire Safety Science*, **2008**, 9, 895-906		2
25	Multi-route respiratory infection: when a transmission route may dominate		2
24	Correlating indoor and outdoor temperature and humidity in a sample of buildings in tropical climates. *Indoor Air*, **2021**, 31, 2281-2295	5.4	2
23	Quantification of Lactobacillus delbrueckii subsp. Bulgaricus and its applicability as a tracer for studying contamination spread on environmental surfaces. *Building and Environment*, **2021**, 197, 107869	6.5	2

22	A novel partial lid for mechanical defeatherers reduced aerosol dispersion during processing of avian influenza virus infected poultry. *PLoS ONE*, **2019**, 14, e0216478	3.7	1
21	Quantifying the relative impact of contact heterogeneity on MRSA transmission in ICUs - a modelling study. *BMC Infectious Diseases*, **2020**, 20, 6	4	1
20	Revisiting Internal Pressure Dynamics in a Single Opening Enclosure Ventilated by Wind. *International Journal of Ventilation*, **2011**, 10, 1-18	1.1	1
19	Special Issue Selected Papers Presented in the 6th International Symposium on Heating, Ventilating and Air Conditioning, Nanjing, China, 6 9 November, 2009. *Energy and Buildings*, **2011**, 43, 1039	7	1
18	Simple Correction Methods of Infrared Thermography for Building Exterior Surfaces. *International Journal of Ventilation*, **2010**, 9, 261-272	1.1	1
17	Fine bubble modelling of smoke flows. *Fire Safety Journal*, **2003**, 38, 285-298	3.3	1
16	An Example of Solution Multiplicity in a Building with Bi-directional Flow Openings. *Indoor and Built Environment*, **2005**, 14, 359-369	1.8	1
15	The effect of background wind on summertime daily maximum air temperature in Kowloon, Hong Kong. *Building and Environment*, **2022**, 210, 108693	6.5	1
14	Footwear microclimate and its effects on the microbial community of the plantar skin. *Scientific Reports*, **2021**, 11, 20356	4.9	1
13	Influence of network structure on contaminant spreading efficiency. *Journal of Hazardous Materials* , **2022**, 424, 127511	12.8	1
12	Inversion breakup over different shapes of urban areas. *Building and Environment*, **2021**, 190, 107548	6.5	1
11	Outbreak investigation of airborne transmission of Omicron (B.1.1.529) - SARS-CoV-2 variant of concern in a restaurant: Implication for enhancement of indoor air dilution. *Journal of Hazardous Materials*, **2022**, 430, 128504	12.8	1
10	Fomite Transmission Follows Invasion Ecology Principles.. *MSystems*, **2022**, e0021122	7.6	1
9	Probable cross-corridor transmission of SARS-CoV-2 due to cross airflows and its control.. *Building and Environment*, **2022**, 218, 109137	6.5	1
8	Modeling the thermal microenvironment of footwear subjected to forced ventilation.. *Ergonomics*, **2022**, 1-29	2.9	0
7	Modelling and optimizing tree planning for urban climate in a subtropical high-density city. *Urban Climate*, **2022**, 43, 101141	6.8	0
6	Exposure and respiratory infection risk via the short-range airborne route.. *Building and Environment*, **2022**, 219, 109166	6.5	0
5	Role of pathogen-laden expiratory droplet dispersion and natural ventilation explaining a COVID-19 outbreak in a coach bus. *Building and Environment*, **2022**, 109160	6.5	0

4	The Impact of Urbanization on Moisture Excess in Hong Kong. *Energy Procedia*, **2015**, 78, 3061-3065	2.3
3	The Impact of City Scale Morphological and Anthropogenic Heat Parameters on Daily Temperature Cycles. *Energy Procedia*, **2015**, 78, 3066-3071	2.3
2	Ventilation for Better Indoor Air Quality - Selected Papers from the Indoor Air 2005 Conference. *International Journal of Ventilation*, **2006**, 5, 273-273	1.1
1	Robustness of Air Distribution in Plenum-Based Ductless Ventilation Systems. *International Journal of Ventilation*, **2004**, 3, 105-118	1.1