

# Kwok Wai Tham

## 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.

97  
papers

3,730  
citations

37  
h-index

58  
g-index

100  
ext. papers

4,694  
ext. citations

6.2  
avg, IF

5.7  
L-index

#	Paper	IF	Citations
97	Assessment of airflow and heat transfer around a thermal manikin in a premise served by DOAS and ceiling fans. <i>Building and Environment</i> , <b>2022</b> , 214, 108902	6.5	0
96	Effects of IAQ on Office Work Performance <b>2022</b> , 1-27		
95	Quantifying the effectiveness of desk dividers in reducing droplet and airborne virus transmission. <i>Indoor Air</i> , <b>2021</b> ,	5.4	2
94	Thermal and perceived air quality responses between a dedicated outdoor air system with ceiling fans and conventional air-conditioning system. <i>Building and Environment</i> , <b>2021</b> , 190, 107574	6.5	1
93	Respiratory performance of humans exposed to moderate levels of carbon dioxide. <i>Indoor Air</i> , <b>2021</b> , 31, 1540-1552	5.4	14
92	A paradigm shift to combat indoor respiratory infection. <i>Science</i> , <b>2021</b> , 372, 689-691	33.3	73
91	Assessment of Home-Based and Mobility-Based Exposure to Black Carbon in an Urban Environment: A Pilot Study. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	2
90	Assessment and mitigation of personal exposure to particulate air pollution in cities: An exploratory study. <i>Sustainable Cities and Society</i> , <b>2021</b> , 72, 103052	10.1	5
89	Effects of ceiling fans on airborne transmission in an air-conditioned space. <i>Building and Environment</i> , <b>2021</b> , 198, 107887	6.5	7
88	Occupant satisfaction with the indoor environment in seven commercial buildings in Singapore. <i>Building and Environment</i> , <b>2021</b> , 188, 107443	6.5	15
87	Performance characteristics of a fan filter unit (FFU) in mitigating particulate matter levels in a naturally ventilated classroom during haze conditions. <i>Indoor Air</i> , <b>2021</b> , 31, 795-806	5.4	5
86	Viral Load of SARS-CoV-2 in Respiratory Aerosols Emitted by COVID-19 Patients while Breathing, Talking, and Singing. <i>Clinical Infectious Diseases</i> , <b>2021</b> ,	11.6	40
85	Meta-analysis of 35 studies examining the effect of indoor temperature on office work performance. <i>Building and Environment</i> , <b>2021</b> , 203, 108037	6.5	9
84	How can airborne transmission of COVID-19 indoors be minimised?. <i>Environment International</i> , <b>2020</b> , 142, 105832	12.9	525
83	How does indoor environmental quality in green refurbished office buildings compare with the one in new certified buildings?. <i>Building and Environment</i> , <b>2020</b> , 171, 106677	6.5	19
82	Infiltration of fine particles in urban daycares. <i>Indoor Air</i> , <b>2020</b> , 30, 955-965	5.4	1
81	Balancing thermal comfort datasets <b>2020</b> ,		3

80	Size-resolved dynamics of indoor and outdoor fluorescent biological aerosol particles in a bedroom: A one-month case study in Singapore. <i>Indoor Air</i> , <b>2020</b> , 30, 942-954	5.4	8
79	Effects of temperature, air movement and initial metabolic rate on thermal sensation during transient state in the tropics. <i>Building and Environment</i> , <b>2019</b> , 155, 70-82	6.5	8
78	A review of advanced air distribution methods - theory, practice, limitations and solutions. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109359	7	73
77	Home and day-care microenvironment exposure to <i>Blomia tropicalis</i> allergens and their associations with salivary eosinophilic cationic protein (ECP) among preschool children in Singapore. <i>Indoor Air</i> , <b>2019</b> , 29, 727-734	5.4	2
76	Thermal comfort and energy performance of a dedicated outdoor air system with ceiling fans in hot and humid climate. <i>Energy and Buildings</i> , <b>2019</b> , 203, 109448	7	8
75	Indoor environmental quality, occupant satisfaction, and acute building-related health symptoms in Green Mark-certified compared with non-certified office buildings. <i>Indoor Air</i> , <b>2019</b> , 29, 112-129	5.4	30
74	Adaptable cooling coil performance during part loads in the tropics—A computational evaluation. <i>Energy and Buildings</i> , <b>2018</b> , 159, 148-163	7	8
73	Development of the ASHRAE Global Thermal Comfort Database II. <i>Building and Environment</i> , <b>2018</b> , 142, 502-512	6.5	164
72	Mitigating particulate matter exposure in naturally ventilated buildings during haze episodes. <i>Building and Environment</i> , <b>2018</b> , 128, 96-106	6.5	16
71	Indoor environment evaluation of a Dedicated Outdoor Air System with ceiling fans in the tropics □ A thermal manikin study. <i>Building and Environment</i> , <b>2018</b> , 143, 605-617	6.5	12
70	Comparison of different occupancy counting methods for single system-single zone applications. <i>Energy and Buildings</i> , <b>2018</b> , 172, 221-234	7	21
69	k-Shape clustering algorithm for building energy usage patterns analysis and forecasting model accuracy improvement. <i>Energy and Buildings</i> , <b>2017</b> , 146, 27-37	7	95
68	Energy utilizability concept as a retrofitting solution selection criterion for buildings. <i>Journal of Civil Engineering and Management</i> , <b>2017</b> , 23, 541-552	3	4
67	Predicting occupancy counts using physical and statistical Co2-based modeling methodologies. <i>Building and Environment</i> , <b>2017</b> , 123, 517-528	6.5	55
66	Anthropogenic heat reduction through retrofitting strategies of campus buildings. <i>Energy and Buildings</i> , <b>2017</b> , 152, 813-822	7	16
65	Applicability of using time series subsequences to study office plug load appliances. <i>Energy and Buildings</i> , <b>2016</b> , 127, 399-410	7	18
64	A review of high temperature cooling systems in tropical buildings. <i>Building and Environment</i> , <b>2016</b> , 96, 237-249	6.5	51
63	Indoor air quality and its effects on humans—A review of challenges and developments in the last 30 years. <i>Energy and Buildings</i> , <b>2016</b> , 130, 637-650	7	151

62	Transport of gaseous pollutants by convective boundary layer around a human body. <i>Science and Technology for the Built Environment</i> , <b>2015</b> , 21, 1175-1186	1.8	18
61	Indoor environmental quality, occupant perception, prevalence of sick building syndrome symptoms, and sick leave in a Green Mark Platinum-rated versus a non-Green Mark-rated building: A case study. <i>Science and Technology for the Built Environment</i> , <b>2015</b> , 21, 35-44	1.8	43
60	Air temperature investigation in microenvironment around a human body. <i>Building and Environment</i> , <b>2015</b> , 92, 39-47	6.5	17
59	Towards whom should indoor environmental quality control be sympathetic [Asthmatics or non-asthmatics?]. <i>Building and Environment</i> , <b>2015</b> , 88, 55-64	6.5	10
58	Cooling efficiency of a brushless direct current stand fan. <i>Building and Environment</i> , <b>2015</b> , 85, 196-204	6.5	34
57	Effectiveness of a personalized ventilation system in reducing personal exposure against directly released simulated cough droplets. <i>Indoor Air</i> , <b>2015</b> , 25, 683-93	5.4	33
56	Thermal comfort and IAQ analysis of a decentralized DOAS system coupled with radiant cooling for the tropics. <i>Building and Environment</i> , <b>2014</b> , 82, 361-370	6.5	47
55	Absence of detectable influenza RNA transmitted via aerosol during various human respiratory activities--experiments from Singapore and Hong Kong. <i>PLoS ONE</i> , <b>2014</b> , 9, e107338	3.7	19
54	Experimental investigation of the human convective boundary layer in a quiescent indoor environment. <i>Building and Environment</i> , <b>2014</b> , 75, 79-91	6.5	85
53	Impact of human presence on secondary organic aerosols derived from ozone-initiated chemistry in a simulated office environment. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 3933-41	10.3	58
52	Adequacy of air change rate as the sole indicator of an air distribution system's effectiveness to mitigate airborne infectious disease transmission caused by a cough release in the room with overhead mixing ventilation: A case study. <i>HVAC and R Research</i> , <b>2013</b> , 19, 947-961		38
51	BubbleZERO Design, Construction and Operation of a Transportable Research Laboratory for Low Exergy Building System Evaluation in the Tropics. <i>Energies</i> , <b>2013</b> , 6, 4551-4571	3.1	18
50	Airflow dynamics of human jets: sneezing and breathing - potential sources of infectious aerosols. <i>PLoS ONE</i> , <b>2013</b> , 8, e59970	3.7	150
49	Different types of door-opening motions as contributing factors to containment failures in hospital isolation rooms. <i>PLoS ONE</i> , <b>2013</b> , 8, e66663	3.7	37
48	A preference driven multi-criteria optimization tool for HVAC design and operation. <i>Energy and Buildings</i> , <b>2012</b> , 55, 118-126	7	15
47	Airflow dynamics of coughing in healthy human volunteers by shadowgraph imaging: an aid to aerosol infection control. <i>PLoS ONE</i> , <b>2012</b> , 7, e34818	3.7	41
46	Total Building Performance Approach in Building Evaluation: Case Study of an Office Building in Singapore. <i>Journal of Energy Engineering - ASCE</i> , <b>2012</b> , 138, 25-30	1.7	10
45	Home air-conditioning, traffic exposure, and asthma and allergic symptoms among preschool children. <i>Pediatric Allergy and Immunology</i> , <b>2011</b> , 22, e112-8	4.2	28

44	Qualitative real-time schlieren and shadowgraph imaging of human exhaled airflows: an aid to aerosol infection control. <i>PLoS ONE</i> , <b>2011</b> , 6, e21392	3.7	50
43	Room air temperature affects occupants' physiology, perceptions and mental alertness. <i>Building and Environment</i> , <b>2010</b> , 45, 40-44	6.5	65
42	Performance evaluation of the coupling of a desktop personalized ventilation air terminal device and desk mounted fans. <i>Building and Environment</i> , <b>2010</b> , 45, 1941-1950	6.5	31
41	Personalized ventilation as a control measure for airborne transmissible disease spread. <i>Journal of the Royal Society Interface</i> , <b>2009</b> , 6 Suppl 6, S715-26	4.1	67
40	Airborne fungi in low and high allergic prevalence child care centers. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 2391-2400	5.3	39
39	The impact of recirculation, ventilation and filters on secondary organic aerosols generated by indoor chemistry. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 3538-3547	5.3	28
38	Reducing particle exposures in a tropical office building using electrostatic precipitators. <i>Building and Environment</i> , <b>2009</b> , 44, 2475-2485	6.5	19
37	Particulate-bound polycyclic aromatic hydrocarbons in naturally ventilated multi-storey residential buildings of Singapore: Vertical distribution and potential health risks. <i>Building and Environment</i> , <b>2009</b> , 44, 418-425	6.5	12
36	Traffic-generated airborne particles in naturally ventilated multi-storey residential buildings of Singapore: Vertical distribution and potential health risks. <i>Building and Environment</i> , <b>2009</b> , 44, 1493-1500	6.5	52
35	Determinants of indoor allergens in tropical child care centers. <i>Pediatric Allergy and Immunology</i> , <b>2008</b> , 19, 746-55	4.2	16
34	Indoor air quality and its determinants in tropical child care centers. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 2225-2239	5.3	48
33	Effects of child care center ventilation strategies on volatile organic compounds of indoor and outdoor origins. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 2054-9	10.3	25
32	Home exposures to environmental tobacco smoke and allergic symptoms among young children in Singapore. <i>International Archives of Allergy and Immunology</i> , <b>2008</b> , 146, 57-65	3.7	33
31	Clients' assessment of architects' performance in building delivery process: Evidence from Nigeria. <i>Building and Environment</i> , <b>2007</b> , 42, 2090-2099	6.5	47
30	Local thermal sensation and comfort study in a field environment chamber served by displacement ventilation system in the tropics. <i>Building and Environment</i> , <b>2007</b> , 42, 525-533	6.5	50
29	Thermal performance of a personalized ventilation air terminal device at two different turbulence intensities. <i>Building and Environment</i> , <b>2007</b> , 42, 3974-3983	6.5	29
28	Associations between home dampness and presence of molds with asthma and allergic symptoms among young children in the tropics. <i>Pediatric Allergy and Immunology</i> , <b>2007</b> , 18, 418-24	4.2	57
27	The effect of ventilation strategies of child care centers on indoor air quality and respiratory health of children in Singapore. <i>Indoor Air</i> , <b>2007</b> , 17, 317-27	5.4	70

26	The impact of building recirculation rates on secondary organic aerosols generated by indoor chemistry. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 5213-5223	5.3	26
25	Thermal effect of temperature gradient in a field environment chamber served by displacement ventilation system in the tropics. <i>Building and Environment</i> , <b>2007</b> , 42, 516-524	6.5	14
24	Determination of ozone in outdoor and indoor environments using nitrite-impregnated passive samplers followed by ion chromatography. <i>Journal of the Air and Waste Management Association</i> , <b>2007</b> , 57, 974-80	2.4	4
23	Local Discomfort Caused by Draft Perception in a Space Served by Displacement Ventilation System in the Tropics. <i>Indoor and Built Environment</i> , <b>2006</b> , 15, 225-233	1.8	12
22	The Acceptable Air Velocity Range for Local Air Movement in The Tropics. <i>HVAC and R Research</i> , <b>2006</b> , 12, 1065-1076		64
21	Single-Coil Twin-Fan Air-Conditioning and Air-Distribution System—Toward Development of a Mathematical Model of the Compartmented Coil. <i>HVAC and R Research</i> , <b>2006</b> , 12, 825-842		1
20	Tracer Gas Measurement of Airflow Rates in Spaces with Several Air-Handling Units, Recirculation, or Large Time Constants. <i>HVAC and R Research</i> , <b>2006</b> , 12, 477-496		1
19	A comparative study of VOCs in Singapore and European office buildings. <i>Building and Environment</i> , <b>2006</b> , 41, 316-329	6.5	64
18	A study of perceived air quality and sick building syndrome in a field environment chamber served by displacement ventilation system in the tropics. <i>Building and Environment</i> , <b>2006</b> , 41, 1530-1539	6.5	14
17	Assessment of thermal environment using a thermal manikin in a field environment chamber served by displacement ventilation system. <i>Building and Environment</i> , <b>2006</b> , 41, 1661-1670	6.5	26
16	Findings of Personalized Ventilation Studies in a Hot and Humid Climate. <i>HVAC and R Research</i> , <b>2005</b> , 11, 603-620		54
15	Size relationship between airborne viable bacteria and particles in a controlled indoor environment study. <i>Indoor Air</i> , <b>2005</b> , 15 Suppl 9, 48-57	5.4	37
14	Effects of temperature and outdoor air supply rate on the performance of call center operators in the tropics. <i>Indoor Air</i> , <b>2004</b> , 14 Suppl 7, 119-25	5.4	65
13	A study on the identification and quantification of sources of VOCs in 5 air-conditioned Singapore office buildings. <i>Building and Environment</i> , <b>2004</b> , 39, 165-177	6.5	24
12	Emission modelling and validation of VOCs' source strengths in air-conditioned office premises. <i>Environment International</i> , <b>2004</b> , 30, 1075-88	12.9	14
11	The effects of ventilation operations in determining contributions of VOCs sources in air-conditioned tropical buildings. <i>Building and Environment</i> , <b>2003</b> , 38, 23-32	6.5	13
10	Thermal comfort study of an air-conditioned lecture theatre in the tropics. <i>Building and Environment</i> , <b>2003</b> , 38, 63-73	6.5	79
9	Measurements and computations of contaminant's distribution in an office environment. <i>Building and Environment</i> , <b>2003</b> , 38, 135-145	6.5	40

8	Response to comments from Mark Mendell, Lars Molhave and Peder Wolkoff. <i>Indoor Air</i> , <b>2003</b> , 13, 373-374	3.4	1
7	Indoor air quality and energy performance of air-conditioned office buildings in Singapore. <i>Indoor Air</i> , <b>2003</b> , 13, 315-31	5.4	39
6	Ventilation characteristics of an air-conditioned office building in Singapore. <i>Building and Environment</i> , <b>2002</b> , 37, 241-255	6.5	13
5	Indoor air quality comparison of two air-conditioned zones served by the same air-handling unit. <i>Building and Environment</i> , <b>2002</b> , 37, 947-960	6.5	5
4	Thermal comfort evaluation of naturally ventilated public housing in Singapore. <i>Building and Environment</i> , <b>2002</b> , 37, 1267-1277	6.5	124
3	Conserving energy without sacrificing thermal comfort. <i>Building and Environment</i> , <b>1993</b> , 28, 287-299	6.5	14
2	The Fuzzy Industry Maturity Grid and its Application to the Singapore Property Sector. <i>Urban Studies</i> , <b>1992</b> , 29, 1305-1321	3.2	4
1	Effect of Ventilation on VOCs in Indoor Air	213-238	