

Kwok Wai Tham

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3811553/kwok-wai-tham-publications-by-citations.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	How can airborne transmission of COVID-19 indoors be minimised?. <i>Environment International</i> , 2020 , 142, 105832	12.9	525
96	Development of the ASHRAE Global Thermal Comfort Database II. <i>Building and Environment</i> , 2018 , 142, 502-512	6.5	164
95	Indoor air quality and its effects on humans: A review of challenges and developments in the last 30 years. <i>Energy and Buildings</i> , 2016 , 130, 637-650	7	151
94	Airflow dynamics of human jets: sneezing and breathing - potential sources of infectious aerosols. <i>PLoS ONE</i> , 2013 , 8, e59970	3.7	150
93	Thermal comfort evaluation of naturally ventilated public housing in Singapore. <i>Building and Environment</i> , 2002 , 37, 1267-1277	6.5	124
92	k-Shape clustering algorithm for building energy usage patterns analysis and forecasting model accuracy improvement. <i>Energy and Buildings</i> , 2017 , 146, 27-37	7	95
91	Experimental investigation of the human convective boundary layer in a quiescent indoor environment. <i>Building and Environment</i> , 2014 , 75, 79-91	6.5	85
90	Thermal comfort study of an air-conditioned lecture theatre in the tropics. <i>Building and Environment</i> , 2003 , 38, 63-73	6.5	79
89	A review of advanced air distribution methods - theory, practice, limitations and solutions. <i>Energy and Buildings</i> , 2019 , 202, 109359	7	73
88	A paradigm shift to combat indoor respiratory infection. <i>Science</i> , 2021 , 372, 689-691	33.3	73
87	The effect of ventilation strategies of child care centers on indoor air quality and respiratory health of children in Singapore. <i>Indoor Air</i> , 2007 , 17, 317-27	5.4	70
86	Personalized ventilation as a control measure for airborne transmissible disease spread. <i>Journal of the Royal Society Interface</i> , 2009 , 6 Suppl 6, S715-26	4.1	67
85	Room air temperature affects occupants' physiology, perceptions and mental alertness. <i>Building and Environment</i> , 2010 , 45, 40-44	6.5	65
84	Effects of temperature and outdoor air supply rate on the performance of call center operators in the tropics. <i>Indoor Air</i> , 2004 , 14 Suppl 7, 119-25	5.4	65
83	The Acceptable Air Velocity Range for Local Air Movement in The Tropics. <i>HVAC and R Research</i> , 2006 , 12, 1065-1076		64
82	A comparative study of VOCs in Singapore and European office buildings. <i>Building and Environment</i> , 2006 , 41, 316-329	6.5	64
81	Impact of human presence on secondary organic aerosols derived from ozone-initiated chemistry in a simulated office environment. <i>Environmental Science & Technology</i> , 2013 , 47, 3933-41	10.3	58

80	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> , 2007 , 18, 418-24	4.2	57
79	Predicting occupancy counts using physical and statistical Co2-based modeling methodologies. <i>Building and Environment</i> , 2017 , 123, 517-528	6.5	55
78	Findings of Personalized Ventilation Studies in a Hot and Humid Climate. <i>HVAC and R Research</i> , 2005 , 11, 603-620		54
77	Traffic-generated airborne particles in naturally ventilated multi-storey residential buildings of Singapore: Vertical distribution and potential health risks. <i>Building and Environment</i> , 2009 , 44, 1493-1500	6.5	52
76	A review of high temperature cooling systems in tropical buildings. <i>Building and Environment</i> , 2016 , 96, 237-249	6.5	51
75	Local thermal sensation and comfort study in a field environment chamber served by displacement ventilation system in the tropics. <i>Building and Environment</i> , 2007 , 42, 525-533	6.5	50
74	Qualitative real-time schlieren and shadowgraph imaging of human exhaled airflows: an aid to aerosol infection control. <i>PLoS ONE</i> , 2011 , 6, e21392	3.7	50
73	Indoor air quality and its determinants in tropical child care centers. <i>Atmospheric Environment</i> , 2008 , 42, 2225-2239	5.3	48
72	Thermal comfort and IAQ analysis of a decentralized DOAS system coupled with radiant cooling for the tropics. <i>Building and Environment</i> , 2014 , 82, 361-370	6.5	47
71	Clients' assessment of architects' performance in building delivery process: Evidence from Nigeria. <i>Building and Environment</i> , 2007 , 42, 2090-2099	6.5	47
70	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> , 2015 , 21, 35-44	1.8	43
69	Airflow dynamics of coughing in healthy human volunteers by shadowgraph imaging: an aid to aerosol infection control. <i>PLoS ONE</i> , 2012 , 7, e34818	3.7	41
68	Measurements and computations of contaminant's distribution in an office environment. <i>Building and Environment</i> , 2003 , 38, 135-145	6.5	40
67	Viral Load of SARS-CoV-2 in Respiratory Aerosols Emitted by COVID-19 Patients while Breathing, Talking, and Singing. <i>Clinical Infectious Diseases</i> , 2021 ,	11.6	40
66	Airborne fungi in low and high allergic prevalence child care centers. <i>Atmospheric Environment</i> , 2009 , 43, 2391-2400	5.3	39
65	Indoor air quality and energy performance of air-conditioned office buildings in Singapore. <i>Indoor Air</i> , 2003 , 13, 315-31	5.4	39
64	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> , 2013 , 19, 947-961		38
63	Size relationship between airborne viable bacteria and particles in a controlled indoor environment study. <i>Indoor Air</i> , 2005 , 15 Suppl 9, 48-57	5.4	37

62	Different types of door-opening motions as contributing factors to containment failures in hospital isolation rooms. <i>PLoS ONE</i> , 2013 , 8, e66663	3.7	37
61	Cooling efficiency of a brushless direct current stand fan. <i>Building and Environment</i> , 2015 , 85, 196-204	6.5	34
60	Effectiveness of a personalized ventilation system in reducing personal exposure against directly released simulated cough droplets. <i>Indoor Air</i> , 2015 , 25, 683-93	5.4	33
59	Home exposures to environmental tobacco smoke and allergic symptoms among young children in Singapore. <i>International Archives of Allergy and Immunology</i> , 2008 , 146, 57-65	3.7	33
58	Performance evaluation of the coupling of a desktop personalized ventilation air terminal device and desk mounted fans. <i>Building and Environment</i> , 2010 , 45, 1941-1950	6.5	31
57	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> , 2019 , 29, 112-129	5.4	30
56	Thermal performance of a personalized ventilation air terminal device at two different turbulence intensities. <i>Building and Environment</i> , 2007 , 42, 3974-3983	6.5	29
55	Home air-conditioning, traffic exposure, and asthma and allergic symptoms among preschool children. <i>Pediatric Allergy and Immunology</i> , 2011 , 22, e112-8	4.2	28
54	The impact of recirculation, ventilation and filters on secondary organic aerosols generated by indoor chemistry. <i>Atmospheric Environment</i> , 2009 , 43, 3538-3547	5.3	28
53	The impact of building recirculation rates on secondary organic aerosols generated by indoor chemistry. <i>Atmospheric Environment</i> , 2007 , 41, 5213-5223	5.3	26
52	Assessment of thermal environment using a thermal manikin in a field environment chamber served by displacement ventilation system. <i>Building and Environment</i> , 2006 , 41, 1661-1670	6.5	26
51	Effects of child care center ventilation strategies on volatile organic compounds of indoor and outdoor origins. <i>Environmental Science & Technology</i> , 2008 , 42, 2054-9	10.3	25
50	A study on the identification and quantification of sources of VOCs in 5 air-conditioned Singapore office buildings. <i>Building and Environment</i> , 2004 , 39, 165-177	6.5	24
49	Comparison of different occupancy counting methods for single system-single zone applications. <i>Energy and Buildings</i> , 2018 , 172, 221-234	7	21
48	How does indoor environmental quality in green refurbished office buildings compare with the one in new certified buildings?. <i>Building and Environment</i> , 2020 , 171, 106677	6.5	19
47	Absence of detectable influenza RNA transmitted via aerosol during various human respiratory activities--experiments from Singapore and Hong Kong. <i>PLoS ONE</i> , 2014 , 9, e107338	3.7	19
46	Reducing particle exposures in a tropical office building using electrostatic precipitators. <i>Building and Environment</i> , 2009 , 44, 2475-2485	6.5	19
45	Transport of gaseous pollutants by convective boundary layer around a human body. <i>Science and Technology for the Built Environment</i> , 2015 , 21, 1175-1186	1.8	18

44	Applicability of using time series subsequences to study office plug load appliances. <i>Energy and Buildings</i> , 2016 , 127, 399-410	7	18
43	BubbleZERO Design, Construction and Operation of a Transportable Research Laboratory for Low Exergy Building System Evaluation in the Tropics. <i>Energies</i> , 2013 , 6, 4551-4571	3.1	18
42	Air temperature investigation in microenvironment around a human body. <i>Building and Environment</i> , 2015 , 92, 39-47	6.5	17
41	Mitigating particulate matter exposure in naturally ventilated buildings during haze episodes. <i>Building and Environment</i> , 2018 , 128, 96-106	6.5	16
40	Anthropogenic heat reduction through retrofitting strategies of campus buildings. <i>Energy and Buildings</i> , 2017 , 152, 813-822	7	16
39	Determinants of indoor allergens in tropical child care centers. <i>Pediatric Allergy and Immunology</i> , 2008 , 19, 746-55	4.2	16
38	A preference driven multi-criteria optimization tool for HVAC design and operation. <i>Energy and Buildings</i> , 2012 , 55, 118-126	7	15
37	Occupant satisfaction with the indoor environment in seven commercial buildings in Singapore. <i>Building and Environment</i> , 2021 , 188, 107443	6.5	15
36	Thermal effect of temperature gradient in a field environment chamber served by displacement ventilation system in the tropics. <i>Building and Environment</i> , 2007 , 42, 516-524	6.5	14
35	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> , 2006 , 41, 1530-1539	6.5	14
34	Emission modelling and validation of VOCs' source strengths in air-conditioned office premises. <i>Environment International</i> , 2004 , 30, 1075-88	12.9	14
33	Conserving energy without sacrificing thermal comfort. <i>Building and Environment</i> , 1993 , 28, 287-299	6.5	14
32	Respiratory performance of humans exposed to moderate levels of carbon dioxide. <i>Indoor Air</i> , 2021 , 31, 1540-1552	5.4	14
31	Ventilation characteristics of an air-conditioned office building in Singapore. <i>Building and Environment</i> , 2002 , 37, 241-255	6.5	13
30	The effects of ventilation operations in determining contributions of VOCs sources in air-conditioned tropical buildings. <i>Building and Environment</i> , 2003 , 38, 23-32	6.5	13
29	Indoor environment evaluation of a Dedicated Outdoor Air System with ceiling fans in the tropics □ A thermal manikin study. <i>Building and Environment</i> , 2018 , 143, 605-617	6.5	12
28	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> , 2009 , 44, 418-425	6.5	12
27	Local Discomfort Caused by Draft Perception in a Space Served by Displacement Ventilation System in the Tropics. <i>Indoor and Built Environment</i> , 2006 , 15, 225-233	1.8	12

26	Towards whom should indoor environmental quality control be sympathetic (Asthmatics or non-asthmatics?). <i>Building and Environment</i> , 2015 , 88, 55-64	6.5	10
25	Total Building Performance Approach in Building Evaluation: Case Study of an Office Building in Singapore. <i>Journal of Energy Engineering - ASCE</i> , 2012 , 138, 25-30	1.7	10
24	Meta-analysis of 35 studies examining the effect of indoor temperature on office work performance. <i>Building and Environment</i> , 2021 , 203, 108037	6.5	9
23	Effects of temperature, air movement and initial metabolic rate on thermal sensation during transient state in the tropics. <i>Building and Environment</i> , 2019 , 155, 70-82	6.5	8
22	Adaptable cooling coil performance during part loads in the tropics: A computational evaluation. <i>Energy and Buildings</i> , 2018 , 159, 148-163	7	8
21	Thermal comfort and energy performance of a dedicated outdoor air system with ceiling fans in hot and humid climate. <i>Energy and Buildings</i> , 2019 , 203, 109448	7	8
20	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> , 2020 , 30, 942-954	5.4	8
19	Effects of ceiling fans on airborne transmission in an air-conditioned space. <i>Building and Environment</i> , 2021 , 198, 107887	6.5	7
18	Indoor air quality comparison of two air-conditioned zones served by the same air-handling unit. <i>Building and Environment</i> , 2002 , 37, 947-960	6.5	5
17	Assessment and mitigation of personal exposure to particulate air pollution in cities: An exploratory study. <i>Sustainable Cities and Society</i> , 2021 , 72, 103052	10.1	5
16	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> , 2021 , 31, 795-806	5.4	5
15	Energy utilizability concept as a retrofitting solution selection criterion for buildings. <i>Journal of Civil Engineering and Management</i> , 2017 , 23, 541-552	3	4
14	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> , 2007 , 57, 974-80	2.4	4
13	The Fuzzy Industry Maturity Grid and its Application to the Singapore Property Sector. <i>Urban Studies</i> , 1992 , 29, 1305-1321	3.2	4
12	Balancing thermal comfort datasets 2020 ,		3
11	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> , 2019 , 29, 727-734	5.4	2
10	Quantifying the effectiveness of desk dividers in reducing droplet and airborne virus transmission. <i>Indoor Air</i> , 2021 ,	5.4	2
9	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> , 2021 , 18,	4.6	2

8	Infiltration of fine particles in urban daycares. <i>Indoor Air</i> , 2020 , 30, 955-965	5.4	1
7	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> , 2006 , 12, 825-842		1
6	Tracer Gas Measurement of Airflow Rates in Spaces with Several Air-Handling Units, Recirculation, or Large Time Constants. <i>HVAC and R Research</i> , 2006 , 12, 477-496		1
5	Response to comments from Mark Mendell, Lars Molhave and Peder Wolkoff. <i>Indoor Air</i> , 2003 , 13, 373-374	3.4	1
4	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> , 2021 , 190, 107574	6.5	1
3	Assessment of airflow and heat transfer around a thermal manikin in a premise served by DOAS and ceiling fans. <i>Building and Environment</i> , 2022 , 214, 108902	6.5	0
2	Effect of Ventilation on VOCs in Indoor Air 213-238		
1	Effects of IAQ on Office Work Performance 2022 , 1-27		