

# Michael S Waring

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

2,420  
citations

186265

28  
h-index

206112

48  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2446  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving Predictions of Indoor Aerosol Concentrations of Outdoor Origin by Considering the Phase Change of Semivolatile Material Driven by Temperature and Mass-Loading Gradients. <i>Environmental Science &amp; Technology</i> , 2021, 55, 9000-9011.	10.0	10
2	Considerations for the Safe Operation of Schools During the Coronavirus Pandemic. <i>Frontiers in Public Health</i> , 2021, 9, 751451.	2.7	9
3	Potted plants do not improve indoor air quality: a review and analysis of reported VOC removal efficiencies. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020, 30, 253-261.	3.9	39
4	Indoor secondary organic aerosols: Towards an improved representation of their formation and composition in models. <i>Atmospheric Environment</i> , 2020, 240, 117784.	4.1	16
5	Indoor aerosol water content and phase state in U.S. residences: impacts of relative humidity, aerosol mass and composition, and mechanical system operation. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 2031-2057.	3.5	20
6	Harnessing the power of healthy buildings research to advance health for all. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020, 30, 217-218.	3.9	2
7	Fungal Signature of Moisture Damage in Buildings: Identification by Targeted and Untargeted Approaches with Mycobiome Data. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	12
8	Review of indoor aerosol generation, transport, and control in the context of COVID-19. <i>International Forum of Allergy and Rhinology</i> , 2020, 10, 1173-1179.	2.8	126
9	Understanding the Spatial Heterogeneity of Indoor OH and HO <sub>2</sub> due to Photolysis of HONO Using Computational Fluid Dynamics Simulation. <i>Environmental Science &amp; Technology</i> , 2019, 53, 14470-14478.	10.0	21
10	Optimizing ventilation: Theoretical study on increasing rates in offices to maximize occupant productivity with constrained additional energy use. <i>Building and Environment</i> , 2019, 166, 106314.	6.9	21
11	Seasonal variation in aerosol composition and concentration upon transport from the outdoor to indoor environment. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 528-547.	3.5	36
12	Human occupant contribution to secondary aerosol mass in the indoor environment. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1301-1312.	3.5	32
13	Modelling consortium for chemistry of indoor environments (MOCCIE): integrating chemical processes from molecular to room scales. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1240-1254.	3.5	36
14	Predicting the importance of oxidative aging on indoor organic aerosol concentrations using the two-dimensional volatility basis set (2D-VBS). <i>Indoor Air</i> , 2019, 29, 616-629.	4.3	17
15	Statistical analysis of wind data using Weibull distribution for natural ventilation estimation. <i>Science and Technology for the Built Environment</i> , 2018, 24, 922-932.	1.7	10
16	Sensor networks for routine indoor air quality monitoring in buildings: Impacts of placement, accuracy, and number of sensors. <i>Science and Technology for the Built Environment</i> , 2018, 24, 188-197.	1.7	28
17	Interplay of ventilation and filtration: Differential analysis of cost function combining energy use and indoor exposure to PM 2.5 and ozone. <i>Building and Environment</i> , 2018, 128, 320-335.	6.9	35
18	Simplified daily models for estimating energy consumption impacts of changing office building ventilation rates. <i>Building and Environment</i> , 2018, 127, 250-255.	6.9	6

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19	Measuring the efficacy of HVAC particle filtration over a range of ventilation rates in an office building. <i>Building and Environment</i> , 2018, 144, 648-656.	6.9	23
20	Outcome-based ventilation: A framework for assessing performance, health, and energy impacts to inform office building ventilation decisions. <i>Indoor Air</i> , 2018, 28, 585-603.	4.3	6
21	Thirdhand smoke uptake to aerosol particles in the indoor environment. <i>Science Advances</i> , 2018, 4, eaap8368.	10.3	69
22	Real-time transformation of outdoor aerosol components upon transport indoors measured with aerosol mass spectrometry. <i>Indoor Air</i> , 2017, 27, 230-240.	4.3	60
23	Alternative ventilation strategies in U.S. offices: Saving energy while enhancing work performance, reducing absenteeism, and considering outdoor pollutant exposure tradeoffs. <i>Building and Environment</i> , 2017, 116, 140-157.	6.9	39
24	Alternative ventilation strategies in U.S. offices: Comprehensive assessment and sensitivity analysis of energy saving potential. <i>Building and Environment</i> , 2017, 116, 30-44.	6.9	26
25	Reactive indoor air chemistry and health—A workshop summary. <i>International Journal of Hygiene and Environmental Health</i> , 2017, 220, 1222-1229.	4.3	28
26	Airborne particles in indoor environment of homes, schools, offices and aged care facilities: The main routes of exposure. <i>Environment International</i> , 2017, 108, 75-83.	10.0	256
27	Do time-averaged, whole-building, effective volatile organic compound (VOC) emissions depend on the air exchange rate? A statistical analysis of trends for 46 VOCs in U.S. offices. <i>Indoor Air</i> , 2016, 26, 642-659.	4.3	30
28	Secondary organic aerosol formation initiated by $\alpha$ -terpineol ozonolysis in indoor air. <i>Indoor Air</i> , 2016, 26, 939-952.	4.3	16
29	Secondary organic aerosol formation by limonene ozonolysis: Parameterizing multi-generational chemistry in ozone- and residence time-limited indoor environments. <i>Atmospheric Environment</i> , 2016, 144, 79-86.	4.1	23
30	Ten questions concerning the microbiomes of buildings. <i>Building and Environment</i> , 2016, 109, 224-234.	6.9	143
31	Predicting the evolution of secondary organic aerosol (SOA) size distributions due to limonene ozonolysis in indoor environments. <i>Building and Environment</i> , 2016, 108, 252-262.	6.9	4
32	Impact of natural versus mechanical ventilation on simulated indoor air quality and energy consumption in offices in fourteen U.S. cities. <i>Building and Environment</i> , 2016, 104, 320-336.	6.9	105
33	Perceptions in the U.S. building industry of the benefits and costs of improving indoor air quality. <i>Indoor Air</i> , 2016, 26, 318-330.	4.3	28
34	Volatile organic compound conversion by ozone, hydroxyl radicals, and nitrate radicals in residential indoor air: Magnitudes and impacts of oxidant sources. <i>Atmospheric Environment</i> , 2015, 106, 382-391.	4.1	117
35	Indoor transient SOA formation from ozone+ $\alpha$ -pinene reactions: Impacts of air exchange and initial product concentrations, and comparison to limonene ozonolysis. <i>Atmospheric Environment</i> , 2015, 112, 106-115.	4.1	28
36	Indoor-Biofilter Growth and Exposure to Airborne Chemicals Drive Similar Changes in Plant Root Bacterial Communities. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4805-4813.	3.1	28

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37	Using multiobjective optimizations to discover dynamic building ventilation strategies that can improve indoor air quality and reduce energy use. <i>Energy and Buildings</i> , 2014, 75, 272-280.	6.7	51
38	Improving airflow measurement accuracy in VAV terminal units using flow conditioners. <i>Building and Environment</i> , 2014, 71, 81-94.	6.9	23
39	Secondary organic aerosol formation initiated from reactions between ozone and surface-sorbed squalene. <i>Atmospheric Environment</i> , 2014, 84, 222-229.	4.1	60
40	Secondary organic aerosol in residences: predicting its fraction of fine particle mass and determinants of formation strength. <i>Indoor Air</i> , 2014, 24, 376-389.	4.3	82
41	Transient Secondary Organic Aerosol Formation from Limonene Ozonolysis in Indoor Environments: Impacts of Air Exchange Rates and Initial Concentration Ratios. <i>Environmental Science &amp; Technology</i> , 2014, 48, 7899-7908.	10.0	36
42	Predictions and determinants of size-resolved particle infiltration factors in single-family homes in the U.S.. <i>Building and Environment</i> , 2014, 74, 106-118.	6.9	65
43	Indoor Secondary Organic Aerosol Formation Initiated from Reactions between Ozone and Surface-Sorbed $\alpha$ -Limonene. <i>Environmental Science &amp; Technology</i> , 2013, 47, 6341-6348.	10.0	75
44	Modeling impacts of dynamic ventilation strategies on indoor air quality of offices in six US cities. <i>Building and Environment</i> , 2013, 60, 243-253.	6.9	64
45	Predicting secondary organic aerosol formation from terpenoid ozonolysis with varying yields in indoor environments. <i>Indoor Air</i> , 2012, 22, 415-426.	4.3	45
46	The effect of an ion generator on indoor air quality in a residential room. <i>Indoor Air</i> , 2011, 21, 267-276.	4.3	41
47	Secondary organic aerosol formation from ozone reactions with single terpenoids and terpenoid mixtures. <i>Atmospheric Environment</i> , 2011, 45, 4235-4242.	4.1	65
48	Particle loading rates for HVAC filters, heat exchangers, and ducts. <i>Indoor Air</i> , 2008, 18, 209-224.	4.3	83
49	Ultrafine particle removal and generation by portable air cleaners. <i>Atmospheric Environment</i> , 2008, 42, 5003-5014.	4.1	166
50	An evaluation of the indoor air quality in bars before and after a smoking ban in Austin, Texas. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2007, 17, 260-268.	3.9	47