Donghyun Rim

List of Publications by Year
in descending order

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44 papers	1,623 citations	218381 26 h-index	301761 39 g-index
44 all docs	44 docs citations	44 times ranked	1464 citing authors

#	Article	IF	Citations
1	Understanding Ozone Transport and Deposition within Indoor Surface Boundary Layers. Environmental Science & Technology, 2022, 56, 7820-7829.	4.6	3
2	Performance of upper-room ultraviolet germicidal irradiation (UVGI) system in learning environments: Effects of ventilation rate, UV fluence rate, and UV radiating volume. Sustainable Cities and Society, 2022, 85, 104048.	5.1	12
3	Quality control of computational fluid dynamics (CFD) model of ozone reaction with human surface: Effects of mesh size and turbulence model. Building and Environment, 2021, 189, 107513.	3.0	18
4	Contributions of Coagulation, Deposition, and Ventilation to the Removal of Airborne Nanoparticles in Indoor Environments. Environmental Science & Technology, 2021, 55, 9730-9739.	4.6	10
5	Spatial and temporal scales of variability for indoor air constituents. Communications Chemistry, 2021, 4, .	2.0	26
6	Optimizing thermal comfort and energy use for learning environments. Energy and Buildings, 2021, 248, 111181.	3.1	16
7	Human exposure to respiratory aerosols in a ventilated room: Effects of ventilation condition, emission mode, and social distancing. Sustainable Cities and Society, 2021, 73, 103090.	5.1	35
8	Aerosol dynamics modeling of sub-500 nm particles during the HOMEChem study. Environmental Sciences: Processes and Impacts, 2021, 23, 1706-1717.	1.7	5
9	Evaluation of low-cost optical particle counters for monitoring individual indoor aerosol sources. Aerosol Science and Technology, 2020, 54, 217-231.	1.5	16
10	Glass surface evolution following gas adsorption and particle deposition from indoor cooking events as probed by microspectroscopic analysis. Environmental Sciences: Processes and Impacts, 2020, 22, 1698-1709.	1.7	18
11	Spatial distributions of ozonolysis products from human surfaces in ventilated rooms. Indoor Air, 2020, 30, 1229-1240.	2.0	18
12	Comparative analysis of bioclimatic zones, energy consumption, CO2 emission and life cycle cost of residential and commercial buildings located in a tropical region: A case study of the big island of Madagascar. Energy, 2020, 202, 117754.	4.5	20
13	Dynamic behavior of indoor ultrafine particles (2.3â€64Ânm) due to burning candles in a residence. Indoor Air, 2019, 29, 1018-1027.	2.0	31
14	Uncertainty analysis of energy and economic performances of hybrid solar photovoltaic and combined cooling, heating, and power (CCHPâ€¯+â€¯PV) systems using a Monte-Carlo method. Applied Energy, 2019, 255, 113753.	5.1	68
15	Understanding the Spatial Heterogeneity of Indoor OH and HO₂ due to Photolysis of HONO Using Computational Fluid Dynamics Simulation. Environmental Science & Technology, 2019, 53, 14470-14478.	4.6	21
16	Effect of sensor position on the performance of CO2-based demand controlled ventilation. Energy and Buildings, 2019, 202, 109358.	3.1	39
17	Indoor air pollution in office buildings in mega-cities: Effects of filtration efficiency and outdoor air ventilation rates. Sustainable Cities and Society, 2019, 49, 101609.	5.1	51
18	The impact of clothing on ozone and squalene ozonolysis products in indoor environments. Communications Chemistry, 2019, 2, .	2.0	54

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19	Modelling consortium for chemistry of indoor environments (MOCCIE): integrating chemical processes from molecular to room scales. Environmental Sciences: Processes and Impacts, 2019, 21, 1240-1254.	1.7	36
20	The â€˜Air-Wallâ€™: Re-Evaluating a Mid-Twentieth Century Four-Sided Double-Skin FaÃ§ade. Technology Architecture and Design, 2019, 3, 200-210.	0.6	1
21	Economic feasibility of combined cooling, heating, and power (CCHP) systems considering electricity standby tariffs. Energy, 2019, 169, 420-432.	4.5	37
22	Cooling energy saving associated with exterior greenery systems for three US Department of Energy (DOE) standard reference buildings. Building Simulation, 2018, 11, 625-631.	3.0	20
23	Ozone reaction with human surfaces: Influences of surface reaction probability and indoor air flow condition. Building and Environment, 2018, 130, 40-48.	3.0	30
24	Thermal and ventilation performance of combined passive chilled beam and displacement ventilation systems. Energy and Buildings, 2018, 158, 466-475.	3.1	40
25	Ventilation and energy performance of partitioned indoor spaces under mixing and displacement ventilation. Building Simulation, 2018, 11, 561-574.	3.0	52
26	Application and validation of a line-source dispersion model to estimate small scale traffic-related particulate matter concentrations across the conterminous US. Air Quality, Atmosphere and Health, 2018, 11, 741-754.	1.5	7
27	Performance assessment of hybrid chiller systems for combined cooling, heating and power production. Applied Energy, 2018, 225, 501-512.	5.1	38
28	Mass accretion and ozone reactivity of idealized indoor surfaces in mechanically or naturally ventilated indoor environments. Building and Environment, 2018, 138, 89-97.	3.0	13
29	Resuspension of biological particles from indoor surfaces: Effects of humidity and air swirl. Science of the Total Environment, 2017, 583, 241-247.	3.9	49
30	Particulate matter in urban nursery schools: A case study of Seoul, Korea during winter months. Building and Environment, 2017, 119, 1-10.	3.0	36
31	Size-Resolved Source Emission Rates of Indoor Ultrafine Particles Considering Coagulation. Environmental Science & Technology, 2016, 50, 10031-10038.	4.6	30
32	Ozone reaction with interior building materials: Influence of diurnal ozone variation, temperature and humidity. Atmospheric Environment, 2016, 125, 15-23.	1.9	48
33	Sensation of draft at uncovered ankles for women exposed to displacement ventilation and underfloor air distribution systems. Building and Environment, 2016, 96, 228-236.	3.0	51
34	Energy and Cost Associated with Ventilating Office Buildings in a Tropical Climate. PLoS ONE, 2015, 10, e0122310.	1.1	37
35	Ultrafine Particle Removal and Ozone Generation by In-Duct Electrostatic Precipitators. Environmental Science & Technology, 2014, 48, 2067-2074.	4.6	58
36	Multi-zone modeling of size-resolved outdoor ultrafine particle entry into a test house. Atmospheric Environment, 2013, 69, 219-230.	1.9	26

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37	Indoor Ultrafine Particles of Outdoor Origin: Importance of Window Opening Area and Fan Operation Condition. Environmental Science & Technology, 2013, 47, 1922-1929.	4.6	47
38	Low-cost coarse airborne particulate matter sensing for indoor occupancy detection. , 2013, , .		22
39	Evolution of Ultrafine Particle Size Distributions Following Indoor Episodic Releases: Relative Importance of Coagulation, Deposition and Ventilation. Aerosol Science and Technology, 2012, 46, 494-503.	1.5	70
40	Reduction of exposure to ultrafine particles by kitchen exhaust hoods: The effects of exhaust flow rates, particle size, and burner position. Science of the Total Environment, 2012, 432, 350-356.	3.9	100
41	Ventilation effectiveness as an indicator of occupant exposure to particles from indoor sources. Building and Environment, 2010, 45, 1214-1224.	3.0	64
42	Occupational Exposure to Hazardous Airborne Pollutants: Effects of Air Mixing and Source Location. Journal of Occupational and Environmental Hygiene, 2010, 7, 683-692.	0.4	39
43	Infiltration of Outdoor Ultrafine Particles into a Test House. Environmental Science & Technology, 2010, 44, 5908-5913.	4.6	75
44	Transport of particulate and gaseous pollutants in the vicinity of a human body. Building and Environment, 2009, 44, 1840-1849.	3.0	136