Steve Hung Lam Yim

List of Publications by Citations

92 papers	2,422 citations	30 h-index	45 g-index
114 ext. papers	3,130 ext. citations	7 avg, IF	5.61 L-index

#	Paper	IF	Citations
92	Air pollution and early deaths in the United States. Part I: Quantifying the impact of major sectors in 2005. *Atmospheric Environment*, **2013**, 79, 198-208	5.3	238
91	Air ventilation impacts of the "wall effect" resulting from the alignment of high-rise buildings. *Atmospheric Environment*, **2009**, 43, 4982-4994	5.3	106
90	Global, regional and local health impacts of civil aviation emissions. *Environmental Research Letters*, **2015**, 10, 034001	6.2	76
89	Air quality and public health impacts of UK airports. Part II: Impacts and policy assessment. *Atmospheric Environment*, **2013**, 67, 184-192	5.3	73
88	The air quality and health impacts of domestic trans-boundary pollution in various regions of China. *Environment International*, **2016**, 97, 117-124	12.9	69
87	Public health impacts of combustion emissions in the United Kingdom. *Environmental Science & Technology*, **2012**, 46, 4291-6	10.3	69
86	Impact of low-pressure systems on winter heavy air pollution in the northwest Sichuan Basin, China. *Atmospheric Chemistry and Physics*, **2018**, 18, 13601-13615	6.8	67
85	Public health, climate, and economic impacts of desulfurizing jet fuel. *Environmental Science & Technology*, **2012**, 46, 4275-82	10.3	66
84	Impacts of sectoral emissions in China and the implications: air quality, public health, crop production, and economic costs. *Environmental Research Letters*, **2018**, 13, 084008	6.2	64
83	Exposure to ambient air pollution and blood lipids in adults: The 33 Communities Chinese Health Study. *Environment International*, **2018**, 119, 485-492	12.9	60
82	Developing a high-resolution wind map for a complex terrain with a coupled MM5/CALMET system. *Journal of Geophysical Research*, **2007**, 112,		60
81	Long-Term Trends of Persistent Synoptic Circulation Events in Planetary Boundary Layer and Their Relationships With Haze Pollution in Winter Half Year Over Eastern China. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 10,991-11,007	4.4	56
80	Trans-boundary air pollution in a city under various atmospheric conditions. *Science of the Total Environment*, **2018**, 618, 132-141	10.2	53
79	PM2.5 Pollution Modulates Wintertime Urban Heat Island Intensity in the Beijing-Tianjin-Hebei Megalopolis, China. *Geophysical Research Letters*, **2020**, 47, e2019GL084288	4.9	50
78	Ambient PM air pollution and cardiovascular disease prevalence: Insights from the 33 Communities Chinese Health Study. *Environment International*, **2019**, 123, 310-317	12.9	48
77	Assessing the impacts of seasonal and vertical atmospheric conditions on air quality over the Pearl River Delta region. *Atmospheric Environment*, **2018**, 180, 69-78	5.3	41
76	Synergistic effects of synoptic weather patterns and topography on air quality: a case of the Sichuan Basin of China. *Climate Dynamics*, **2019**, 53, 6729-6744	4.2	39

75	Quantifying the climate impacts of albedo changes due to biofuel production: a comparison with biogeochemical effects. *Environmental Research Letters*, **2014**, 9, 024015	6.2	38
74	Use of high-resolution MM5/CALMET/CALPUFF system: SO2 apportionment to air quality in Hong Kong. *Atmospheric Environment*, **2010**, 44, 4850-4858	5.3	38
73	Effect of Urbanization on Ozone and Resultant Health Effects in the Pearl River Delta Region of China. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 11568-11579	4.4	37
72	Source contributions of surface ozone in China using an adjoint sensitivity analysis. *Science of the Total Environment*, **2019**, 662, 385-392	10.2	37
71	Characteristics of Heavy Particulate Matter Pollution Events Over Hong Kong and Their Relationships With Vertical Wind Profiles Using High-Time-Resolution Doppler Lidar Measurements. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 9609-9623	4.4	37
70	Near-airport distribution of the environmental costs of aviation. *Transport Policy*, **2014**, 34, 102-108	5.7	37
69	Air quality and acid deposition impacts of local emissions and transboundary air pollution in Japan and South Korea. *Atmospheric Chemistry and Physics*, **2019**, 19, 13309-13323	6.8	37
68	Ambient PM air pollution, blood pressure, and hypertension: Insights from the 33 Communities Chinese Health Study. *Environmental Research*, **2019**, 170, 252-259	7.9	34
67	Association between long-term exposure to air pollution and sleep disorder in Chinese children: the Seven Northeastern Cities study. *Sleep*, **2018**, 41,	1.1	34
66	Determinants of personal exposure to fine particulate matter (PM) in adult subjects in Hong Kong. *Science of the Total Environment*, **2018**, 628-629, 1165-1177	10.2	33
65	The Impact of the Aerosol Direct Radiative Forcing on Deep Convection and Air Quality in the Pearl River Delta Region. *Geophysical Research Letters*, **2018**, 45, 4410-4418	4.9	32
64	Contribution of local emissions and transboundary air pollution to air quality in Hong Kong during El Niño-Southern Oscillation and heatwaves. *Atmospheric Research*, **2019**, 218, 50-58	5.4	32
63	Residential greenness and blood lipids in urban-dwelling adults: The 33 Communities Chinese Health Study. *Environmental Pollution*, **2019**, 250, 14-22	9.3	30
62	Liver function biomarkers disorder is associated with exposure to perfluoroalkyl acids in adults: Isomers of C8 Health Project in China. *Environmental Research*, **2019**, 172, 81-88	7.9	30
61	Characteristics and meteorological mechanisms of transboundary air pollution in a persistent heavy PM2.5 pollution episode in Central-East China. *Atmospheric Environment*, **2020**, 223, 117239	5.3	30
60	Impacts of air pollutants from fire and non-fire emissions on the regional air quality in Southeast Asia. *Atmospheric Chemistry and Physics*, **2018**, 18, 6141-6156	6.8	30
59	Sensitivity of inflow boundary conditions on downstream wind and turbulence profiles through building obstacles using a CFD approach. *Journal of Wind Engineering and Industrial Aerodynamics*, **2013**, 115, 137-149	3.7	29
58	Projecting the impacts of atmospheric conditions under climate change on air quality over the Pearl River Delta region. *Atmospheric Environment*, **2018**, 193, 79-87	5.3	29

57	Vertical Wind Shear Modulates Particulate Matter Pollutions: A Perspective from Radar Wind Profiler Observations in Beijing, China. *Remote Sensing*, **2020**, 12, 546	5	28
56	Chemical characterization and sources of personal exposure to fine particulate matter (PM) in the megacity of Guangzhou, China. *Environmental Pollution*, **2017**, 231, 871-881	9.3	27
55	Isomers of perfluoroalkyl substances and overweight status among Chinese by sex status: Isomers of C8 Health Project in China. *Environment International*, **2019**, 124, 130-138	12.9	27
54	High temporal resolution prediction of street-level PM2.5 and NOx concentrations using machine learning approach. *Journal of Cleaner Production*, **2020**, 268, 121975	10.3	24
53	An assessment indicator for air ventilation and pollutant dispersion potential in an urban canopy with complex natural terrain and significant wind variations. *Atmospheric Environment*, **2014**, 94, 297-306	5.3	24
52	Development of a response surface model of aviation's air quality impacts in the United States. *Atmospheric Environment*, **2013**, 77, 445-452	5.3	23
51	Estimation of personal exposure to fine particles (PM) of ambient origin for healthy adults in Hong Kong. *Science of the Total Environment*, **2019**, 654, 514-524	10.2	23
50	Effects of urbanization and global climate change on regional climate in the Pearl River Delta and thermal comfort implications. *International Journal of Climatology*, **2019**, 39, 2984-2997	3.5	21
49	Air quality and climate impacts of alternative bus technologies in Greater London. *Environmental Science & Technology*, **2014**, 48, 4613-22	10.3	21
48	Investigation of near-global daytime boundary layer height using high-resolution radiosondes: first results and comparison with ERA5, MERRA-2, JRA-55, and NCEP-2 reanalyses. *Atmospheric Chemistry and Physics*, **2021**, 21, 17079-17097	6.8	20
47	Characteristics and toxicological effects of commuter exposure to black carbon and metal components of fine particles (PM) in Hong Kong. *Science of the Total Environment*, **2020**, 742, 140501	10.2	19
46	Mesoscale Simulation of Year-to-Year Variation of Wind Power Potential over Southern China. *Energies*, **2009**, 2, 340-361	3.1	19
45	Assessing outdoor air quality and public health impact attributable to residential black carbon emissions in rural China. *Resources, Conservation and Recycling*, **2020**, 159, 104812	11.9	18
44	Interactions between ambient air pollution and obesity on lung function in children: The Seven Northeastern Chinese Cities (SNEC) Study. *Science of the Total Environment*, **2020**, 699, 134397	10.2	18
43	Development of a 3D Real-Time Atmospheric Monitoring System (3DREAMS) Using Doppler LiDARs and Applications for Long-Term Analysis and Hot-and-Polluted Episodes. *Remote Sensing*, **2020**, 12, 1036	5	18
42	A Model Investigation of Aerosol-Induced Changes in the East Asian Winter Monsoon. *Geophysical Research Letters*, **2019**, 46, 10186-10195	4.9	17
41	Contribution of local and remote anthropogenic aerosols to a record-breaking torrential rainfall event in Guangdong Province, China. *Atmospheric Chemistry and Physics*, **2020**, 20, 223-241	6.8	15
40	Diurnal Evolution of the Wintertime Boundary Layer in Urban Beijing, China: Insights from Doppler Lidar and a 325-m Meteorological Tower. *Remote Sensing*, **2020**, 12, 3935	5	13

39	The Trend Reversal of Dust Aerosol Over East Asia and the North Pacific Ocean Attributed to Large-Scale Meteorology, Deposition, and Soil Moisture. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 10450-10466	4.4	13
38	Quantifying the air quality-CO2 tradeoff potential for airports. *Atmospheric Environment*, **2014**, 99, 546-555	5.5	12
37	High-Spatial-Resolution Population Exposure to PM2.5 Pollution Based on Multi-Satellite Retrievals: A Case Study of Seasonal Variation in the Yangtze River Delta, China in 2013. *Remote Sensing*, **2019**, 11, 2724	5	12
36	Indoor, outdoor, and personal exposure to PM and their bioreactivity among healthy residents of Hong Kong. *Environmental Research*, **2020**, 188, 109780	7.9	11
35	Mapping ozone source-receptor relationship and apportioning the health impact in the Pearl River Delta region using adjoint sensitivity analysis. *Atmospheric Environment*, **2020**, 222, 1-117026	5.3	10
34	Modulations of synoptic and climatic changes on ozone pollution and its health risks in mountain-basin areas. *Atmospheric Environment*, **2020**, 240, 117808	5.3	10
33	A practical framework for predicting residential indoor PM concentration using land-use regression and machine learning methods. *Chemosphere*, **2021**, 265, 129140	8.4	10
32	Source identification of personal exposure to fine particulate matter (PM2.5) among adult residents of Hong Kong. *Atmospheric Environment*, **2019**, 218, 116999	5.3	9
31	Preliminary Evaluation of the Atmospheric Infrared Sounder Water Vapor Over China Against High-Resolution Radiosonde Measurements. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 3871-3888	4.4	9
30	The effect of urbanization and climate change on the mosquito population in the Pearl River Delta region of China. *International Journal of Biometeorology*, **2020**, 64, 501-512	3.7	9
29	Association of ambient ozone with pneumonia hospital admissions in Hong Kong and Taipei: A tale of two Southeast Asian cities. *Environment International*, **2021**, 156, 106634	12.9	9
28	The effects of particle-induced oxidative damage from exposure to airborne fine particulate matter components in the vicinity of landfill sites on Hong Kong. *Chemosphere*, **2019**, 230, 578-586	8.4	8
27	Observation of Turbulent Mixing Characteristics in the Typical Daytime Cloud-Topped Boundary Layer over Hong Kong in 2019. *Remote Sensing*, **2020**, 12, 1533	5	8
26	Influence of a weak typhoon on the vertical distribution of air pollution in Hong Kong: A perspective from a Doppler LiDAR network. *Environmental Pollution*, **2021**, 276, 116534	9.3	7
25	Towards understanding multi-model precipitation predictions from CMIP5 based on China hourly merged precipitation analysis data. *Atmospheric Research*, **2020**, 231, 104671	5.4	7
24	Effectiveness of indoor air purification intervention in improving cardiovascular health: A systematic review and meta-analysis of randomized controlled trials. *Science of the Total Environment*, **2021**, 789, 147882	10.2	7
23	Evaluation of hazardous airborne carbonyls in five urban roadside dwellings: A comprehensive indoor air assessment in Sri Lanka. *Atmospheric Pollution Research*, **2018**, 9, 270-277	4.5	6
22	Associations of Particulate Matter Sizes and Chemical Constituents with Blood Lipids: A Panel Study in Guangzhou, China. *Environmental Science & Technology*, **2021**, 55, 5065-5075	10.3	6

21	Source apportionment of hourly-resolved ambient volatile organic compounds: Influence of temporal resolution. *Science of the Total Environment*, **2020**, 725, 138243	10.2	5
20	Air quality and acid deposition impacts of local emissions and transboundary air pollution in Japan and South Korea **2019**,		4
19	Effects of ozone–vegetation interactions on meteorology and air quality in China using a two-way coupled land–atmosphere model. *Atmospheric Chemistry and Physics*, **2022**, 22, 765-782	6.8	4
18	Development and intercity transferability of land-use regression models for predicting ambient PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub> and O<sub>3</sub> concentrations in northern Taiwan. *Atmospheric Chemistry and Physics*, **2021**, 21, 5063-5078	6.8	4
17	Assessing Transboundary-Local Aerosols Interaction Over Complex Terrain Using a Doppler LiDAR Network. *Geophysical Research Letters*, **2021**, 48, e2021GL093238	4.9	4
16	Association of cardiorespiratory hospital admissions with ambient volatile organic compounds: Evidence from a time-series study in Taipei, Taiwan. *Chemosphere*, **2021**, 276, 130172	8.4	3
15	Association of ambient non-methane hydrocarbons exposure with respiratory hospitalizations: A time series study in Taipei, Taiwan. *Science of the Total Environment*, **2020**, 729, 139010	10.2	2
14	Rise and fall of lung cancers in relation to tobacco smoking and air pollution: A global trend analysis from 1990 to 2012. *Atmospheric Environment*, **2022**, 269, 118835	5.3	2
13	Real-Time Monitoring of the Effects of Personal Temperature Exposure on the Blood Oxygen Saturation Level in Elderly People with and without Chronic Obstructive Pulmonary Disease: A Panel Study in Hong Kong. *Environmental Science & Technology*, **2020**, 54, 6869-6877	10.3	1
12	Suppression of Ozone Formation at High Temperature in China: From Historical Observations to Future Projections. *Geophysical Research Letters*,	4.9	1
11	What drives long-term PM-attributable premature mortality change? A case study in central China using high-resolution satellite data from 2003 to 2018.. *Environment International*, **2022**, 161, 107110	12.9	1
10	Inflammatory and oxidative stress responses of healthy elders to solar-assisted large-scale cleaning system (SALSCS) and changes in ambient air pollution: A quasi-interventional study in Xi'an, China. *Science of the Total Environment*, **2022**, 806, 151217	10.2	1
9	A new approach for health-oriented ozone control strategy: Adjoint-based optimization of NO emission reductions using metaheuristic algorithms. *Journal of Cleaner Production*, **2021**, 312, 127533	10.3	1
8	A novel approach for assessing the spatiotemporal trend of health risk from ambient particulate matter components: Case of Hong Kong. *Environmental Research*, **2022**, 204, 111866	7.9	1
7	The spatiotemporal relationship between PM&lt;sub&gt;2.5&lt;/sub&gt; and aerosol optical depth in China: influencing factors and implications for satellite PM&lt;sub&gt;2.5&lt;/sub&gt; estimations using MAIAC aerosol optical depth. *Atmospheric Chemistry and Physics*, **2021**, 21, 18375-18391	6.8	1
6	Regime-Dependent Impacts of Aerosol Particles and Updrafts on the Cloud Condensation Nuclei and the Enhanced Warm Rain Suppression: Evidence From Synergistic Satellite and LiDAR Observations. *Geophysical Research Letters*, **2022**, 49,	4.9	0
5	Characterizing the performance of a POPS miniaturized optical particle counter when operated on a quadcopter drone. *Atmospheric Measurement Techniques*, **2021**, 14, 6101-6118	4	0
4	Characteristics of surface energy balance and atmospheric circulation during hot-and-polluted episodes and their synergistic relationships with urban heat islands over the Pearl River Delta region. *Atmospheric Chemistry and Physics*, **2021**, 21, 13443-13454	6.8	0

LIST OF PUBLICATIONS

3   Association of air pollution exposure with low arousal threshold obstructive sleep apnea: A cross-sectional study in Taipei, Taiwan.. *Environmental Pollution*, **2022**, 119393   9.3   0

2   Inverse Fluid Convection Problems in Enclosures. *Journal of Applied Mathematics*, **2012**, 2012, 1-2   1.1

1   Air quality and transboundary air pollution in China under climate change **2021**, 163-167