

# Steve Hung Lam Yim

## 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.

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	Effects of ozone-vegetation interactions on meteorology and air quality in China using a two-way coupled land-atmosphere model. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 765-782	6.8	4
91	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. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	0
90	What drives long-term PM-attributable premature mortality change? A case study in central China using high-resolution satellite data from 2003 to 2018.. <i>Environment International</i> , <b>2022</b> , 161, 107110	12.9	1
89	Rise and fall of lung cancers in relation to tobacco smoking and air pollution: A global trend analysis from 1990 to 2012. <i>Atmospheric Environment</i> , <b>2022</b> , 269, 118835	5.3	2
88	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. <i>Science of the Total Environment</i> , <b>2022</b> , 806, 151217	10.2	1
87	A novel approach for assessing the spatiotemporal trend of health risk from ambient particulate matter components: Case of Hong Kong. <i>Environmental Research</i> , <b>2022</b> , 204, 111866	7.9	1
86	Association of air pollution exposure with low arousal threshold obstructive sleep apnea: A cross-sectional study in Taipei, Taiwan.. <i>Environmental Pollution</i> , <b>2022</b> , 119393	9.3	0
85	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. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 17079-17097	6.8	20
84	Associations of Particulate Matter Sizes and Chemical Constituents with Blood Lipids: A Panel Study in Guangzhou, China. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 5065-5075	10.3	6
83	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. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 5063-5078	6.8	4
82	Influence of a weak typhoon on the vertical distribution of air pollution in Hong Kong: A perspective from a Doppler LiDAR network. <i>Environmental Pollution</i> , <b>2021</b> , 276, 116534	9.3	7
81	Assessing Transboundary-Local Aerosols Interaction Over Complex Terrain Using a Doppler LiDAR Network. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093238	4.9	4
80	A practical framework for predicting residential indoor PM concentration using land-use regression and machine learning methods. <i>Chemosphere</i> , <b>2021</b> , 265, 129140	8.4	10
79	Air quality and transboundary air pollution in China under climate change <b>2021</b> , 163-167		
78	A new approach for health-oriented ozone control strategy: Adjoint-based optimization of NO emission reductions using metaheuristic algorithms. <i>Journal of Cleaner Production</i> , <b>2021</b> , 312, 127533	10.3	1
77	Association of cardiorespiratory hospital admissions with ambient volatile organic compounds: Evidence from a time-series study in Taipei, Taiwan. <i>Chemosphere</i> , <b>2021</b> , 276, 130172	8.4	3
76	Characterizing the performance of a POPS miniaturized optical particle counter when operated on a quadcopter drone. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 6101-6118	4	0

75	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. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 13443-13454	6.8	0
74	Effectiveness of indoor air purification intervention in improving cardiovascular health: A systematic review and meta-analysis of randomized controlled trials. <i>Science of the Total Environment</i> , <b>2021</b> , 789, 147882	10.2	7
73	Association of ambient ozone with pneumonia hospital admissions in Hong Kong and Taipei: A tale of two Southeast Asian cities. <i>Environment International</i> , <b>2021</b> , 156, 106634	12.9	9
72	The spatiotemporal relationship between PM <sub>2.5</sub> and aerosol optical depth in China: influencing factors and implications for satellite PM <sub>2.5</sub> estimations using MAIAC aerosol optical depth. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 18375-18391	6.8	1
71	Diurnal Evolution of the Wintertime Boundary Layer in Urban Beijing, China: Insights from Doppler Lidar and a 325-m Meteorological Tower. <i>Remote Sensing</i> , <b>2020</b> , 12, 3935	5	13
70	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. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 6869-6877	10.3	1
69	Association of ambient non-methane hydrocarbons exposure with respiratory hospitalizations: A time series study in Taipei, Taiwan. <i>Science of the Total Environment</i> , <b>2020</b> , 729, 139010	10.2	2
68	High temporal resolution prediction of street-level PM <sub>2.5</sub> and NO <sub>x</sub> concentrations using machine learning approach. <i>Journal of Cleaner Production</i> , <b>2020</b> , 268, 121975	10.3	24
67	Indoor, outdoor, and personal exposure to PM and their bioreactivity among healthy residents of Hong Kong. <i>Environmental Research</i> , <b>2020</b> , 188, 109780	7.9	11
66	Observation of Turbulent Mixing Characteristics in the Typical Daytime Cloud-Topped Boundary Layer over Hong Kong in 2019. <i>Remote Sensing</i> , <b>2020</b> , 12, 1533	5	8
65	Contribution of local and remote anthropogenic aerosols to a record-breaking torrential rainfall event in Guangdong Province, China. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 223-241	6.8	15
64	Characteristics and toxicological effects of commuter exposure to black carbon and metal components of fine particles (PM) in Hong Kong. <i>Science of the Total Environment</i> , <b>2020</b> , 742, 140501	10.2	19
63	Vertical Wind Shear Modulates Particulate Matter Pollutions: A Perspective from Radar Wind Profiler Observations in Beijing, China. <i>Remote Sensing</i> , <b>2020</b> , 12, 546	5	28
62	Assessing outdoor air quality and public health impact attributable to residential black carbon emissions in rural China. <i>Resources, Conservation and Recycling</i> , <b>2020</b> , 159, 104812	11.9	18
61	PM <sub>2.5</sub> Pollution Modulates Wintertime Urban Heat Island Intensity in the Beijing-Tianjin-Hebei Megalopolis, China. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL084288	4.9	50
60	Mapping ozone source-receptor relationship and apportioning the health impact in the Pearl River Delta region using adjoint sensitivity analysis. <i>Atmospheric Environment</i> , <b>2020</b> , 222, 1-117026	5.3	10
59	Characteristics and meteorological mechanisms of transboundary air pollution in a persistent heavy PM <sub>2.5</sub> pollution episode in Central-East China. <i>Atmospheric Environment</i> , <b>2020</b> , 223, 117239	5.3	30
58	The effect of urbanization and climate change on the mosquito population in the Pearl River Delta region of China. <i>International Journal of Biometeorology</i> , <b>2020</b> , 64, 501-512	3.7	9

57	Modulations of synoptic and climatic changes on ozone pollution and its health risks in mountain-basin areas. <i>Atmospheric Environment</i> , <b>2020</b> , 240, 117808	5.3	10
56	Towards understanding multi-model precipitation predictions from CMIP5 based on China hourly merged precipitation analysis data. <i>Atmospheric Research</i> , <b>2020</b> , 231, 104671	5.4	7
55	Interactions between ambient air pollution and obesity on lung function in children: The Seven Northeastern Chinese Cities (SNEC) Study. <i>Science of the Total Environment</i> , <b>2020</b> , 699, 134397	10.2	18
54	Development of a 3D Real-Time Atmospheric Monitoring System (3DREAMS) Using Doppler LiDARs and Applications for Long-Term Analysis and Hot-and-Polluted Episodes. <i>Remote Sensing</i> , <b>2020</b> , 12, 1036 <sup>5</sup>		18
53	Source apportionment of hourly-resolved ambient volatile organic compounds: Influence of temporal resolution. <i>Science of the Total Environment</i> , <b>2020</b> , 725, 138243	10.2	5
52	Effects of urbanization and global climate change on regional climate in the Pearl River Delta and thermal comfort implications. <i>International Journal of Climatology</i> , <b>2019</b> , 39, 2984-2997	3.5	21
51	Ambient PM air pollution, blood pressure, and hypertension: Insights from the 33 Communities Chinese Health Study. <i>Environmental Research</i> , <b>2019</b> , 170, 252-259	7.9	34
50	Effect of Urbanization on Ozone and Resultant Health Effects in the Pearl River Delta Region of China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 11568-11579	4.4	37
49	A Model Investigation of Aerosol-Induced Changes in the East Asian Winter Monsoon. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 10186-10195	4.9	17
48	Synergistic effects of synoptic weather patterns and topography on air quality: a case of the Sichuan Basin of China. <i>Climate Dynamics</i> , <b>2019</b> , 53, 6729-6744	4.2	39
47	Source identification of personal exposure to fine particulate matter (PM <sub>2.5</sub> ) among adult residents of Hong Kong. <i>Atmospheric Environment</i> , <b>2019</b> , 218, 116999	5.3	9
46	Isomers of perfluoroalkyl substances and overweight status among Chinese by sex status: Isomers of C8 Health Project in China. <i>Environment International</i> , <b>2019</b> , 124, 130-138	12.9	27
45	Source contributions of surface ozone in China using an adjoint sensitivity analysis. <i>Science of the Total Environment</i> , <b>2019</b> , 662, 385-392	10.2	37
44	The effects of particle-induced oxidative damage from exposure to airborne fine particulate matter components in the vicinity of landfill sites on Hong Kong. <i>Chemosphere</i> , <b>2019</b> , 230, 578-586	8.4	8
43	Preliminary Evaluation of the Atmospheric Infrared Sounder Water Vapor Over China Against High-Resolution Radiosonde Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 3871-3888	4.4	9
42	Air quality and acid deposition impacts of local emissions and transboundary air pollution in Japan and South Korea <b>2019</b> ,		4
41	Residential greenness and blood lipids in urban-dwelling adults: The 33 Communities Chinese Health Study. <i>Environmental Pollution</i> , <b>2019</b> , 250, 14-22	9.3	30
40	Liver function biomarkers disorder is associated with exposure to perfluoroalkyl acids in adults: Isomers of C8 Health Project in China. <i>Environmental Research</i> , <b>2019</b> , 172, 81-88	7.9	30

39	The Trend Reversal of Dust Aerosol Over East Asia and the North Pacific Ocean Attributed to Large-Scale Meteorology, Deposition, and Soil Moisture. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 10450-10466	4.4	13
38	Characteristics of Heavy Particulate Matter Pollution Events Over Hong Kong and Their Relationships With Vertical Wind Profiles Using High-Time-Resolution Doppler Lidar Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 9609-9623	4.4	37
37	High-Spatial-Resolution Population Exposure to PM <sub>2.5</sub> Pollution Based on Multi-Satellite Retrievals: A Case Study of Seasonal Variation in the Yangtze River Delta, China in 2013. <i>Remote Sensing</i> , <b>2019</b> , 11, 2724	5	12
36	Air quality and acid deposition impacts of local emissions and transboundary air pollution in Japan and South Korea. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 13309-13323	6.8	37
35	Ambient PM air pollution and cardiovascular disease prevalence: Insights from the 33 Communities Chinese Health Study. <i>Environment International</i> , <b>2019</b> , 123, 310-317	12.9	48
34	Estimation of personal exposure to fine particles (PM) of ambient origin for healthy adults in Hong Kong. <i>Science of the Total Environment</i> , <b>2019</b> , 654, 514-524	10.2	23
33	Contribution of local emissions and transboundary air pollution to air quality in Hong Kong during El Niño-Southern Oscillation and heatwaves. <i>Atmospheric Research</i> , <b>2019</b> , 218, 50-58	5.4	32
32	Assessing the impacts of seasonal and vertical atmospheric conditions on air quality over the Pearl River Delta region. <i>Atmospheric Environment</i> , <b>2018</b> , 180, 69-78	5.3	41
31	The Impact of the Aerosol Direct Radiative Forcing on Deep Convection and Air Quality in the Pearl River Delta Region. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4410-4418	4.9	32
30	Evaluation of hazardous airborne carbonyls in five urban roadside dwellings: A comprehensive indoor air assessment in Sri Lanka. <i>Atmospheric Pollution Research</i> , <b>2018</b> , 9, 270-277	4.5	6
29	Exposure to ambient air pollution and blood lipids in adults: The 33 Communities Chinese Health Study. <i>Environment International</i> , <b>2018</b> , 119, 485-492	12.9	60
28	Impacts of sectoral emissions in China and the implications: air quality, public health, crop production, and economic costs. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 084008	6.2	64
27	Trans-boundary air pollution in a city under various atmospheric conditions. <i>Science of the Total Environment</i> , <b>2018</b> , 618, 132-141	10.2	53
26	Impacts of air pollutants from fire and non-fire emissions on the regional air quality in Southeast Asia. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 6141-6156	6.8	30
25	Impact of low-pressure systems on winter heavy air pollution in the northwest Sichuan Basin, China. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 13601-13615	6.8	67
24	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. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 10,991-11,007	4.4	56
23	Projecting the impacts of atmospheric conditions under climate change on air quality over the Pearl River Delta region. <i>Atmospheric Environment</i> , <b>2018</b> , 193, 79-87	5.3	29
22	Determinants of personal exposure to fine particulate matter (PM) in adult subjects in Hong Kong. <i>Science of the Total Environment</i> , <b>2018</b> , 628-629, 1165-1177	10.2	33

21	Association between long-term exposure to air pollution and sleep disorder in Chinese children: the Seven Northeastern Cities study. <i>Sleep</i> , <b>2018</b> , 41,	1.1	34
20	Chemical characterization and sources of personal exposure to fine particulate matter (PM) in the megacity of Guangzhou, China. <i>Environmental Pollution</i> , <b>2017</b> , 231, 871-881	9.3	27
19	The air quality and health impacts of domestic trans-boundary pollution in various regions of China. <i>Environment International</i> , <b>2016</b> , 97, 117-124	12.9	69
18	Global, regional and local health impacts of civil aviation emissions. <i>Environmental Research Letters</i> , <b>2015</b> , 10, 034001	6.2	76
17	Air quality and climate impacts of alternative bus technologies in Greater London. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 4613-22	10.3	21
16	Near-airport distribution of the environmental costs of aviation. <i>Transport Policy</i> , <b>2014</b> , 34, 102-108	5.7	37
15	Quantifying the climate impacts of albedo changes due to biofuel production: a comparison with biogeochemical effects. <i>Environmental Research Letters</i> , <b>2014</b> , 9, 024015	6.2	38
14	Quantifying the air quality-CO2 tradeoff potential for airports. <i>Atmospheric Environment</i> , <b>2014</b> , 99, 546-555	5.5	12
13	An assessment indicator for air ventilation and pollutant dispersion potential in an urban canopy with complex natural terrain and significant wind variations. <i>Atmospheric Environment</i> , <b>2014</b> , 94, 297-306	5.3	24
12	Air pollution and early deaths in the United States. Part I: Quantifying the impact of major sectors in 2005. <i>Atmospheric Environment</i> , <b>2013</b> , 79, 198-208	5.3	238
11	Sensitivity of inflow boundary conditions on downstream wind and turbulence profiles through building obstacles using a CFD approach. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2013</b> , 115, 137-149	3.7	29
10	Air quality and public health impacts of UK airports. Part II: Impacts and policy assessment. <i>Atmospheric Environment</i> , <b>2013</b> , 67, 184-192	5.3	73
9	Development of a response surface model of aviation's air quality impacts in the United States. <i>Atmospheric Environment</i> , <b>2013</b> , 77, 445-452	5.3	23
8	Public health, climate, and economic impacts of desulfurizing jet fuel. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 4275-82	10.3	66
7	Public health impacts of combustion emissions in the United Kingdom. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 4291-6	10.3	69
6	Inverse Fluid Convection Problems in Enclosures. <i>Journal of Applied Mathematics</i> , <b>2012</b> , 2012, 1-2	1.1	
5	Use of high-resolution MM5/CALMET/CALPUFF system: SO2 apportionment to air quality in Hong Kong. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 4850-4858	5.3	38
4	Mesoscale Simulation of Year-to-Year Variation of Wind Power Potential over Southern China. <i>Energies</i> , <b>2009</b> , 2, 340-361	3.1	19

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|---|--|-----|-----|
| 3 | Air ventilation impacts of the wall effect resulting from the alignment of high-rise buildings. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 4982-4994 | 5-3 | 106 |
| 2 | Developing a high-resolution wind map for a complex terrain with a coupled MM5/CALMET system. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,    |     | 60  |
| 1 | Suppression of Ozone Formation at High Temperature in China: From Historical Observations to Future Projections. <i>Geophysical Research Letters</i> ,       | 4-9 | 1   |