

# Jimmy Fung

## 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.

88  
papers

2,215  
citations

24  
h-index

45  
g-index

95  
ext. papers

2,702  
ext. citations

5.5  
avg, IF

5.25  
L-index

#	Paper	IF	Citations
88	Assessment of the impact of sensor error on the representativeness of population exposure to urban air pollutants. <i>Environment International</i> , <b>2022</b> , 165, 107329	12.9	
87	A coupled computational fluid dynamics and back-propagation neural network-based particle swarm optimizer algorithm for predicting and optimizing indoor air quality. <i>Building and Environment</i> , <b>2021</b> , 207, 108533	6.5	3
86	Estimation and variation analysis of secondary inorganic aerosols across the Greater Bay Area in 2005 and 2015.. <i>Chemosphere</i> , <b>2021</b> , 292, 133393	8.4	0
85	Improved Modeling of Spatiotemporal Variations of Fine Particulate Matter Using a Three-Dimensional Variational Data Fusion Method. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033599	4.4	1
84	Air quality and synergistic health effects of ozone and nitrogen oxides in response to China's integrated air quality control policies during 2015-2019. <i>Chemosphere</i> , <b>2021</b> , 268, 129385	8.4	5
83	Trends in Diurnal Cycle of Summertime Rainfall Over Coastal South China in the Past 135 Years: Characteristics and Possible Causes. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033621	4.4	1
82	An improved decomposition method to differentiate meteorological and anthropogenic effects on air pollution: A national study in China during the COVID-19 lockdown period. <i>Atmospheric Environment</i> , <b>2021</b> , 250, 118270	5.3	6
81	A proposed population-health based metric for evaluating representativeness of air quality monitoring in cities: Using Hong Kong as a demonstration. <i>PLoS ONE</i> , <b>2021</b> , 16, e0252290	3.7	2
80	Model Sensitivity Evaluation for 3DVAR Data Assimilation Applied on WRF with a Nested Domain Configuration. <i>Atmosphere</i> , <b>2021</b> , 12, 682	2.7	
79	Effect of bromine and iodine chemistry on tropospheric ozone over Asia-Pacific using the CMAQ model. <i>Chemosphere</i> , <b>2021</b> , 262, 127595	8.4	3
78	Impacts of urbanization and long-term meteorological variations on global PM and its associated health burden. <i>Environmental Pollution</i> , <b>2021</b> , 270, 116003	9.3	8
77	Global air quality and health impacts of domestic and international shipping. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 084055	6.2	3
76	Development of a new emission reallocation method for industrial sources in China. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 12895-12908	6.8	1
75	Development of a back-propagation neural network and adaptive grey wolf optimizer algorithm for thermal comfort and energy consumption prediction and optimization. <i>Energy and Buildings</i> , <b>2021</b> , 253, 111439	7	4
74	Removing the effects of meteorological factors on changes in nitrogen dioxide and ozone concentrations in China from 2013 to 2020. <i>Science of the Total Environment</i> , <b>2021</b> , 793, 148575	10.2	9
73	Exposure and mortality apportionment of PM <sub>2.5</sub> between 2006 and 2015 over the Pearl River Delta region in southern China. <i>Atmospheric Environment</i> , <b>2020</b> , 231, 117512	5.3	4
72	Potential Effect of Halogens on Atmospheric Oxidation and Air Quality in China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD032058	4.4	15

71	Assessing PM emissions in 2020: The impacts of integrated emission control policies in China. <i>Environmental Pollution</i> , <b>2020</b> , 263, 114575	9.3	16
70	A novel framework for decomposing PM variation and demographic change effects on human exposure using satellite observations. <i>Environmental Research</i> , <b>2020</b> , 182, 109120	7.9	1
69	PRAISE-HK: A personalized real-time air quality informatics system for citizen participation in exposure and health risk management. <i>Sustainable Cities and Society</i> , <b>2020</b> , 54, 101986	10.1	18
68	The Observation and Characterisation of Fluorescent Bioaerosols Using Real-Time UV-LIF Spectrometry in Hong Kong from June to November 2018. <i>Atmosphere</i> , <b>2020</b> , 11, 944	2.7	1
67	Investigating Future Urbanization's Impact on Local Climate under Different Climate Change Scenarios in MEGA-urban Regions: A Case Study of the Pearl River Delta, China. <i>Atmosphere</i> , <b>2020</b> , 11, 771	2.7	8
66	Estimations of Long-Term nss-SO and NO Wet Depositions over East Asia by Use of Ensemble Machine-Learning Method. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 11118-11126	10.3	2
65	Spatiotemporal Variation in Presummer Precipitation Over South China From 1979 to 2015 and Its Relationship With Urbanization. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 6737	4.4	4
64	To what extent can the below-cloud washout effect influence the PM? A combined observational and modeling study. <i>Environmental Pollution</i> , <b>2019</b> , 251, 338-343	9.3	4
63	Momentum Drag Effect Over Urbanized Areas in the ACM2 PBL Component of the WRF model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 4460-4476	4.4	1
62	Differences in concentration and source apportionment of PM between 2006 and 2015 over the PRD region in southern China. <i>Science of the Total Environment</i> , <b>2019</b> , 673, 708-718	10.2	21
61	Characterization of Aerosol Aging Potentials at Suburban Sites in Northern and Southern China Utilizing a Potential Aerosol Mass (Go:PAM) Reactor and an Aerosol Mass Spectrometer. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 5629-5649	4.4	18
60	Response of the Sea Breeze to Urbanization in the Pearl River Delta Region. <i>Journal of Applied Meteorology and Climatology</i> , <b>2019</b> , 58, 1449-1463	2.7	10
59	Characteristics of the Sea-Breeze Circulation in the Pearl River Delta Region and Its Dynamical Diagnosis. <i>Journal of Applied Meteorology and Climatology</i> , <b>2019</b> , 58, 741-755	2.7	8
58	Downwind flow behaviours of cuboid-shaped obstacles: modelling and experiments. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , <b>2019</b> , 172, 12-32	0.3	0
57	Assessing the Effect of the Long-Term Variations in Aerosol Characteristics on Satellite Remote Sensing of PM Using an Observation-Based Model. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 2990-3000	10.3	5
56	The significance of incorporating unidentified vessels into AIS-based ship emission inventory. <i>Atmospheric Environment</i> , <b>2019</b> , 203, 102-113	5.3	22
55	Decomposing the Long-term Variation in Population Exposure to Outdoor PM2.5 in the Greater Bay Area of China Using Satellite Observations. <i>Remote Sensing</i> , <b>2019</b> , 11, 2646	5	3
54	Exploration of sustainable building morphologies for effective passive pollutant dispersion within compact urban environments. <i>Building and Environment</i> , <b>2019</b> , 148, 508-523	6.5	19

53	Analysis of the adverse health effects of PM from 2001 to 2017 in China and the role of urbanization in aggravating the health burden. <i>Science of the Total Environment</i> , <b>2019</b> , 652, 683-695	10.2	111
52	Time Series Forecasting of Air Quality Based On Regional Numerical Modeling in Hong Kong. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 4175-4196	4.4	17
51	An improved SST k $\Gamma$ model for pollutant dispersion simulations within an isothermal boundary layer. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2018</b> , 179, 369-384	3.7	9
50	15-Year PM <sub>2.5</sub> Trends in the Pearl River Delta Region and Hong Kong from Satellite Observation. <i>Aerosol and Air Quality Research</i> , <b>2018</b> , 18, 2355-2362	4.6	17
49	Assessing Effect of Targeting Reduction of PM <sub>2.5</sub> Concentration on Human Exposure and Health Burden in Hong Kong Using Satellite Observation. <i>Remote Sensing</i> , <b>2018</b> , 10, 2064	5	6
48	Evidence of heterogeneous HONO formation from aerosols and the regional photochemical impact of this HONO source. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 114002	6.2	16
47	Sensitivity assessment of PM <sub>2.5</sub> simulation to the below-cloud washout schemes in an atmospheric chemical transport model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2018</b> , 70, 1-17	3.3	4
46	Investigation of the meteorological effects of urbanization in recent decades: A case study of major cities in Pearl River Delta. <i>Urban Climate</i> , <b>2018</b> , 26, 174-187	6.8	24
45	Difference in PM <sub>2.5</sub> Variations between Urban and Rural Areas over Eastern China from 2001 to 2015. <i>Atmosphere</i> , <b>2018</b> , 9, 312	2.7	15
44	Radical budget and ozone chemistry during autumn in the atmosphere of an urban site in central China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 3672-3685	4.4	23
43	A New Vortex Initialization Scheme Coupled with WRF-ARW. <i>Advances in Meteorology</i> , <b>2017</b> , 2017, 1-15	1.7	1
42	Assessment of health burden caused by particulate matter in southern China using high-resolution satellite observation. <i>Environment International</i> , <b>2017</b> , 98, 160-170	12.9	50
41	Updated global soil map for the Weather Research and Forecasting model and soil moisture initialization for the Noah land surface model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 8777-8800	4.4	17
40	Source apportionment and health effect of NO <sub>x</sub> over the Pearl River Delta region in southern China. <i>Environmental Pollution</i> , <b>2016</b> , 212, 135-146	9.3	34
39	Evaluations on Profiles of the Eddy Diffusion Coefficients through Simulations of Super Typhoons in the Northwestern Pacific. <i>Advances in Meteorology</i> , <b>2016</b> , 2016, 1-14	1.7	2
38	Estimation of long-term population exposure to PM <sub>2.5</sub> for dense urban areas using 1-km MODIS data. <i>Remote Sensing of Environment</i> , <b>2016</b> , 179, 13-22	13.2	76
37	Estimation of health and economic costs of air pollution over the Pearl River Delta region in China. <i>Science of the Total Environment</i> , <b>2016</b> , 566-567, 134-143	10.2	85
36	Unexpected high 35S concentration revealing strong downward transport of stratospheric air during the monsoon transitional period in East Asia. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 2315-2322	4.9	10

35	Detection of deep stratospheric intrusions by cosmogenic <sup>35</sup> S. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 11131-11136	11.5	16
34	Assessing Long-Term Trend of Particulate Matter Pollution in the Pearl River Delta Region Using Satellite Remote Sensing. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 11670-8	10.3	41
33	Using satellite remote sensing data to estimate the high-resolution distribution of ground-level PM <sub>2.5</sub> . <i>Remote Sensing of Environment</i> , <b>2015</b> , 156, 117-128	13.2	220
32	Sensitivities of WRF-Chem to dust emission schemes and land surface properties in simulating dust cycles during springtime over East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 11,215-11,230	4.4	11,230
31	Seasonal characteristics of fine particulate matter (PM) based on high-resolution time-of-flight aerosol mass spectrometric (HR-ToF-AMS) measurements at the HKUST Supersite in Hong Kong. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 37-53	6.8	81
30	A comparison of momentum mixing models for the planetary boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 2079-2091	4.4	3
29	Decomposition of the wind and nonwind effects on observed year-to-year air quality variation. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 6207-6220	4.4	13
28	Relative contributions of secondary organic aerosol formation from toluene, xylenes, isoprene, and monoterpenes in Hong Kong and Guangzhou in the Pearl River Delta, China: an emission-based box modeling study. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 507-519	4.4	35
27	The effects of rapid urbanization on the levels in tropospheric nitrogen dioxide and ozone over East China. <i>Atmospheric Environment</i> , <b>2013</b> , 77, 558-567	5.3	49
26	Influence of urban morphometric modification on regional boundary-layer dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 2729-2747	4.4	8
25	Structure of the planetary boundary layer over Southeast England: Modeling and measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 7799-7818	4.4	14
24	Importance of NO <sub>x</sub> control for peak ozone reduction in the Pearl River Delta region. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 9428-9443	4.4	63
23	Evaluation of nonlocal and local planetary boundary layer schemes in the WRF model. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		125
22	Numerical study on seasonal variations of gaseous pollutants and particulate matters in Hong Kong and Pearl River Delta Region. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		52
21	Effects of urbanization on the land sea breeze circulation over the Pearl River Delta region in winter. <i>International Journal of Climatology</i> , <b>2010</b> , 30, 1089-1104	3.5	37
20	Seasonal variation of the land-sea breeze circulation in the Pearl River Delta region. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		29
19	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
18	Spontaneous Generation of Single Vortices and Anti-Vortices in Superconductors with Restricted Geometries. <i>Journal of Low Temperature Physics</i> , <b>2007</b> , 148, 869-873	1.3	

17	Urban Modification in a Mesoscale Model and the Effects on the Local Circulation in the Pearl River Delta Region. <i>Journal of Applied Meteorology and Climatology</i> , <b>2007</b> , 46, 457-476	2.7	99
16	Identification and spatiotemporal variations of dominant PM10 sources over Hong Kong. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 1803-1815	5.3	125
15	NUCLEATION OF VORTICES IN THIN SUPERCONDUCTING DISKS. <i>International Journal of Modern Physics B</i> , <b>2006</b> , 20, 5321-5324	1.1	
14	Investigation of enhanced cross-city transport and trapping of air pollutants by coastal and urban land-sea breeze circulations. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		81
13	Integrated processes analysis and systematic meteorological classification of ozone episodes in Hong Kong. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		48
12	Application of Refined Land-Use Categories for High Resolution Mesoscale Atmospheric Modelling. <i>Boundary-Layer Meteorology</i> , <b>2006</b> , 119, 263-288	3.4	29
11	Numerical simulation and process analysis of typhoon-related ozone episodes in Hong Kong. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		92
10	Observational and modeling analysis of a severe air pollution episode in western Hong Kong. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		44
9	Diffusivities and velocity spectra of small inertial particles in turbulent-like flows. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2003</b> , 459, 445-493	2.4	11
8	Inertial particle segregation by turbulence. <i>Physical Review E</i> , <b>2003</b> , 68, 046309	2.4	15
7	Roton backflow and quasiparticle scattering at 4He surfaces. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	4
6	The Effect of Roton Backflow on Quantum Evaporation from Superfluid 4He. <i>Journal of Low Temperature Physics</i> , <b>2000</b> , 121, 339-344	1.3	1
5	A Beliaev Theory Incorporating a Semi-Phenomenological Roton Backflow Effect. <i>Journal of Low Temperature Physics</i> , <b>2000</b> , 121, 345-350	1.3	2
4	Anomalous burning rates of flamelets induced by self-similar multiple scale (fractal and spiral) initial fields. <i>Physical Review E</i> , <b>2000</b> , 62, 6636-47	2.4	3
3	The change in settling velocity of inertial particles in cellular flow. <i>Fluid Dynamics Research</i> , <b>1999</b> , 25, 257-273	1.2	8
2	The self-similar topology of passive interfaces advected by two-dimensional turbulent-like flows. <i>Physics of Fluids</i> , <b>1995</b> , 7, 1970-1998	4.4	19
1	Prediction of the typhoon wind field in Hong Kong: integrating the effects of climate change using the Shared Socioeconomic Pathways. <i>Climate Dynamics</i> , 1	4.2	0