

Jimmy Fung

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6156747/jimmy-fung-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Using satellite remote sensing data to estimate the high-resolution distribution of ground-level PM2.5. <i>Remote Sensing of Environment</i> , 2015 , 156, 117-128	13.2	220
87	Evaluation of nonlocal and local planetary boundary layer schemes in the WRF model. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		125
86	Identification and spatiotemporal variations of dominant PM10 sources over Hong Kong. <i>Atmospheric Environment</i> , 2006 , 40, 1803-1815	5.3	125
85	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> , 2019 , 652, 683-695	10.2	111
84	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> , 2007 , 46, 457-476	2.7	99
83	Numerical simulation and process analysis of typhoon-related ozone episodes in Hong Kong. <i>Journal of Geophysical Research</i> , 2005 , 110,		92
82	Estimation of health and economic costs of air pollution over the Pearl River Delta region in China. <i>Science of the Total Environment</i> , 2016 , 566-567, 134-143	10.2	85
81	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> , 2015 , 15, 37-53	6.8	81
80	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> , 2006 , 111,		81
79	Estimation of long-term population exposure to PM2.5 for dense urban areas using 1-km MODIS data. <i>Remote Sensing of Environment</i> , 2016 , 179, 13-22	13.2	76
78	Importance of NOx control for peak ozone reduction in the Pearl River Delta region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9428-9443	4.4	63
77	Developing a high-resolution wind map for a complex terrain with a coupled MMS/CALMET system. <i>Journal of Geophysical Research</i> , 2007 , 112,		60
76	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> , 2010 , 115,		52
75	Assessment of health burden caused by particulate matter in southern China using high-resolution satellite observation. <i>Environment International</i> , 2017 , 98, 160-170	12.9	50
74	The effects of rapid urbanization on the levels in tropospheric nitrogen dioxide and ozone over East China. <i>Atmospheric Environment</i> , 2013 , 77, 558-567	5.3	49
73	Integrated processes analysis and systematic meteorological classification of ozone episodes in Hong Kong. <i>Journal of Geophysical Research</i> , 2006 , 111,		48
72	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> , 2015 , 120, 11,215-11,230	4.4	45

71	Observational and modeling analysis of a severe air pollution episode in western Hong Kong. <i>Journal of Geophysical Research</i> , 2005 , 110,		44
70	Assessing Long-Term Trend of Particulate Matter Pollution in the Pearl River Delta Region Using Satellite Remote Sensing. <i>Environmental Science & Technology</i> , 2015 , 49, 11670-8	10.3	41
69	Effects of urbanization on the land sea breeze circulation over the Pearl River Delta region in winter. <i>International Journal of Climatology</i> , 2010 , 30, 1089-1104	3.5	37
68	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> , 2013 , 118, 507-519	4.4	35
67	Source apportionment and health effect of NO _x over the Pearl River Delta region in southern China. <i>Environmental Pollution</i> , 2016 , 212, 135-146	9.3	34
66	Seasonal variation of the land-sea breeze circulation in the Pearl River Delta region. <i>Journal of Geophysical Research</i> , 2009 , 114,		29
65	Application of Refined Land-Use Categories for High Resolution Mesoscale Atmospheric Modelling. <i>Boundary-Layer Meteorology</i> , 2006 , 119, 263-288	3.4	29
64	Investigation of the meteorological effects of urbanization in recent decades: A case study of major cities in Pearl River Delta. <i>Urban Climate</i> , 2018 , 26, 174-187	6.8	24
63	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> , 2017 , 122, 3672-3685	4.4	23
62	The significance of incorporating unidentified vessels into AIS-based ship emission inventory. <i>Atmospheric Environment</i> , 2019 , 203, 102-113	5.3	22
61	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> , 2019 , 673, 708-718	10.2	21
60	The self-similar topology of passive interfaces advected by two-dimensional turbulent-like flows. <i>Physics of Fluids</i> , 1995 , 7, 1970-1998	4.4	19
59	Exploration of sustainable building morphologies for effective passive pollutant dispersion within compact urban environments. <i>Building and Environment</i> , 2019 , 148, 508-523	6.5	19
58	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> , 2019 , 124, 5629-5649	4.4	18
57	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> , 2020 , 54, 101986	10.1	18
56	Time Series Forecasting of Air Quality Based On Regional Numerical Modeling in Hong Kong. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4175-4196	4.4	17
55	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> , 2016 , 121, 8777-8800	4.4	17
54	15-Year PM _{2.5} Trends in the Pearl River Delta Region and Hong Kong from Satellite Observation. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 2355-2362	4.6	17

53	Assessing PM emissions in 2020: The impacts of integrated emission control policies in China. <i>Environmental Pollution</i> , 2020 , 263, 114575	9.3	16
52	Detection of deep stratospheric intrusions by cosmogenic ³⁵ S. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11131-11136	11.5	16
51	Evidence of heterogeneous HONO formation from aerosols and the regional photochemical impact of this HONO source. <i>Environmental Research Letters</i> , 2018 , 13, 114002	6.2	16
50	Potential Effect of Halogens on Atmospheric Oxidation and Air Quality in China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032058	4.4	15
49	Inertial particle segregation by turbulence. <i>Physical Review E</i> , 2003 , 68, 046309	2.4	15
48	Difference in PM _{2.5} Variations between Urban and Rural Areas over Eastern China from 2001 to 2015. <i>Atmosphere</i> , 2018 , 9, 312	2.7	15
47	Structure of the planetary boundary layer over Southeast England: Modeling and measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 7799-7818	4.4	14
46	Decomposition of the wind and nonwind effects on observed year-to-year air quality variation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 6207-6220	4.4	13
45	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> , 2003 , 459, 445-493	2.4	11
44	Response of the Sea Breeze to Urbanization in the Pearl River Delta Region. <i>Journal of Applied Meteorology and Climatology</i> , 2019 , 58, 1449-1463	2.7	10
43	Unexpected high ³⁵ S concentration revealing strong downward transport of stratospheric air during the monsoon transitional period in East Asia. <i>Geophysical Research Letters</i> , 2016 , 43, 2315-2322	4.9	10
42	An improved SST κ model for pollutant dispersion simulations within an isothermal boundary layer. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018 , 179, 369-384	3.7	9
41	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> , 2021 , 793, 148575	10.2	9
40	Characteristics of the Sea-Breeze Circulation in the Pearl River Delta Region and Its Dynamical Diagnosis. <i>Journal of Applied Meteorology and Climatology</i> , 2019 , 58, 741-755	2.7	8
39	Influence of urban morphometric modification on regional boundary-layer dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2729-2747	4.4	8
38	The change in settling velocity of inertial particles in cellular flow. <i>Fluid Dynamics Research</i> , 1999 , 25, 257-273	1.2	8
37	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> , 2020 , 11, 771	2.7	8
36	Impacts of urbanization and long-term meteorological variations on global PM and its associated health burden. <i>Environmental Pollution</i> , 2021 , 270, 116003	9.3	8

35	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> , 2021 , 250, 118270	5.3	6
34	Assessing Effect of Targeting Reduction of PM _{2.5} Concentration on Human Exposure and Health Burden in Hong Kong Using Satellite Observation. <i>Remote Sensing</i> , 2018 , 10, 2064	5	6
33	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> , 2021 , 268, 129385	8.4	5
32	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 & Technology</i> , 2019 , 53, 2990-3000	10.3	5
31	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> , 2019 , 124, 6737	4.4	4
30	To what extent can the below-cloud washout effect influence the PM? A combined observational and modeling study. <i>Environmental Pollution</i> , 2019 , 251, 338-343	9.3	4
29	Exposure and mortality apportionment of PM _{2.5} between 2006 and 2015 over the Pearl River Delta region in southern China. <i>Atmospheric Environment</i> , 2020 , 231, 117512	5.3	4
28	Roton backflow and quasiparticle scattering at 4He surfaces. <i>Physical Review B</i> , 2002 , 65,	3.3	4
27	Sensitivity assessment of PM _{2.5} simulation to the below-cloud washout schemes in an atmospheric chemical transport model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2018 , 70, 1-17	3.3	4
26	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> , 2021 , 253, 111439	7	4
25	A comparison of momentum mixing models for the planetary boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 2079-2091	4.4	3
24	Anomalous burning rates of flamelets induced by self-similar multiple scale (fractal and spiral) initial fields. <i>Physical Review E</i> , 2000 , 62, 6636-47	2.4	3
23	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> , 2021 , 207, 108533	6.5	3
22	Decomposing the Long-term Variation in Population Exposure to Outdoor PM _{2.5} in the Greater Bay Area of China Using Satellite Observations. <i>Remote Sensing</i> , 2019 , 11, 2646	5	3
21	Effect of bromine and iodine chemistry on tropospheric ozone over Asia-Pacific using the CMAQ model. <i>Chemosphere</i> , 2021 , 262, 127595	8.4	3
20	Global air quality and health impacts of domestic and international shipping. <i>Environmental Research Letters</i> , 2021 , 16, 084055	6.2	3
19	A Beliaev Theory Incorporating a Semi-Phenomenological Roton Backflow Effect. <i>Journal of Low Temperature Physics</i> , 2000 , 121, 345-350	1.3	2
18	Estimations of Long-Term nss-SO and NO Wet Depositions over East Asia by Use of Ensemble Machine-Learning Method. <i>Environmental Science & Technology</i> , 2020 , 54, 11118-11126	10.3	2

17	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> , 2021 , 16, e0252290	3.7	2
16	Evaluations on Profiles of the Eddy Diffusion Coefficients through Simulations of Super Typhoons in the Northwestern Pacific. <i>Advances in Meteorology</i> , 2016 , 2016, 1-14	1.7	2
15	Momentum Drag Effect Over Urbanized Areas in the ACM2 PBL Component of the WRF model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 4460-4476	4.4	1
14	A New Vortex Initialization Scheme Coupled with WRF-ARW. <i>Advances in Meteorology</i> , 2017 , 2017, 1-15	1.7	1
13	The Effect of Roton Backflow on Quantum Evaporation from Superfluid 4He. <i>Journal of Low Temperature Physics</i> , 2000 , 121, 339-344	1.3	1
12	A novel framework for decomposing PM variation and demographic change effects on human exposure using satellite observations. <i>Environmental Research</i> , 2020 , 182, 109120	7.9	1
11	The Observation and Characterisation of Fluorescent Bioaerosols Using Real-Time UV-LIF Spectrometry in Hong Kong from June to November 2018. <i>Atmosphere</i> , 2020 , 11, 944	2.7	1
10	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> , 2021 , 126, e2020JD033599	4.4	1
9	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> , 2021 , 126, e2020JD033621	14.1	1
8	Development of a new emission reallocation method for industrial sources in China. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12895-12908	6.8	1
7	Downwind flow behaviours of cuboid-shaped obstacles: modelling and experiments. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , 2019 , 172, 12-32	0.3	0
6	Estimation and variation analysis of secondary inorganic aerosols across the Greater Bay Area in 2005 and 2015.. <i>Chemosphere</i> , 2021 , 292, 133393	8.4	0
5	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
4	Spontaneous Generation of Single Vortices and Anti-Vortices in Superconductors with Restricted Geometries. <i>Journal of Low Temperature Physics</i> , 2007 , 148, 869-873	1.3	
3	NUCLEATION OF VORTICES IN THIN SUPERCONDUCTING DISKS. <i>International Journal of Modern Physics B</i> , 2006 , 20, 5321-5324	1.1	
2	Model Sensitivity Evaluation for 3DVAR Data Assimilation Applied on WRF with a Nested Domain Configuration. <i>Atmosphere</i> , 2021 , 12, 682	2.7	
1	Assessment of the impact of sensor error on the representativeness of population exposure to urban air pollutants. <i>Environment International</i> , 2022 , 165, 107329	12.9	