

# Fei Jiang

## List of Publications by Year in descending order

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75  
papers

3,060  
citations

126901

33  
h-index

182417

51  
g-index

109  
all docs

109  
docs citations

109  
times ranked

2815  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aggravating O <sub>3</sub> pollution due to NO <sub>x</sub> emission control in eastern China. <i>Science of the Total Environment</i> , 2019, 677, 732-744.	8.0	245
2	Urban air quality and regional haze weather forecast for Yangtze River Delta region. <i>Atmospheric Environment</i> , 2012, 58, 70-83.	4.1	131
3	Concurrent observations of air pollutants at two sites in the Pearl River Delta and the implication of regional transport. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7343-7360.	4.9	128
4	Regional modeling of secondary organic aerosol over China using WRF/Chem. <i>Journal of Aerosol Science</i> , 2012, 43, 57-73.	3.8	114
5	Impacts of O <sub>3</sub> on premature mortality and crop yield loss across China. <i>Atmospheric Environment</i> , 2018, 194, 41-47.	4.1	97
6	On the relationship between ozone and its precursors in the Pearl River Delta: application of an observation-based model (OBM). <i>Environmental Science and Pollution Research</i> , 2010, 17, 547-560.	5.3	95
7	Assessing photochemical ozone formation in the Pearl River Delta with a photochemical trajectory model. <i>Atmospheric Environment</i> , 2010, 44, 4199-4208.	4.1	94
8	Numerical modeling of a continuous photochemical pollution episode in Hong Kong using WRF+chem. <i>Atmospheric Environment</i> , 2008, 42, 8717-8727.	4.1	89
9	Simulation of ozone formation at different elevations in mountainous area of Hong Kong using WRF-CMAQ model. <i>Science of the Total Environment</i> , 2015, 505, 939-951.	8.0	87
10	Energy saving potential of fragmented green spaces due to their temperature regulating ecosystem services in the summer. <i>Applied Energy</i> , 2016, 183, 1428-1440.	10.1	86
11	Causes of a continuous summertime O <sub>3</sub> pollution event in Jinan, a central city in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3025-3042.	4.9	77
12	Probing into the impact of 3DVAR assimilation of surface PM <sub>10</sub> observations over China using process analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6738-6749.	3.3	74
13	Ozone pollution around a coastal region of South China Sea: interaction between marine and continental air. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4277-4295.	4.9	74
14	Characterization of photochemical pollution at different elevations in mountainous areas in Hong Kong. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3881-3898.	4.9	72
15	Causes of ozone pollution in summer in Wuhan, Central China. <i>Environmental Pollution</i> , 2018, 241, 852-861.	7.5	70
16	NO <sub>x</sub> Emission Changes Over China During the COVID-19 Epidemic Inferred From Surface NO <sub>2</sub> Observations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090080.	4.0	62
17	Modelling VOC source impacts on high ozone episode days observed at a mountain summit in Hong Kong under the influence of mountain-valley breezes. <i>Atmospheric Environment</i> , 2013, 81, 166-176.	4.1	58
18	A comprehensive estimate of recent carbon sinks in China using both top-down and bottom-up approaches. <i>Scientific Reports</i> , 2016, 6, 22130.	3.3	55

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19	An ozone episode in the Pearl River Delta: Field observation and model simulation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	51
20	Intercomparison of O <sub>3</sub> formation and radical chemistry in the past decade at a suburban site in Hong Kong. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5127-5145.	4.9	47
21	Modeling tropospheric ozone formation over East China in springtime. <i>Journal of Atmospheric Chemistry</i> , 2012, 69, 303-319.	3.2	46
22	Investigation on semi-direct and indirect climate effects of fossil fuel black carbon aerosol over China. <i>Theoretical and Applied Climatology</i> , 2013, 114, 651-672.	2.8	44
23	Uplifting of carbon monoxide from biomass burning and anthropogenic sources to the free troposphere in East Asia. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2843-2866.	4.9	44
24	Nested atmospheric inversion for the terrestrial carbon sources and sinks in China. <i>Biogeosciences</i> , 2013, 10, 5311-5324.	3.3	40
25	Investigation on the direct radiative effect of fossil fuel black-carbon aerosol over China. <i>Theoretical and Applied Climatology</i> , 2011, 104, 301-312.	2.8	39
26	Ensemble forecasts of air quality in eastern China – Part 1: Model description and implementation of the MarcoPolo–Panda prediction system, version 1. <i>Geoscientific Model Development</i> , 2019, 12, 33-67.	3.6	39
27	Impact of weather and emission changes on NO <sub>2</sub> concentrations in China during 2014–2019. <i>Environmental Pollution</i> , 2021, 269, 116163.	7.5	39
28	Establishing a conceptual model for photochemical ozone pollution in subtropical Hong Kong. <i>Atmospheric Environment</i> , 2013, 76, 208-220.	4.1	38
29	Self-aggravation effect of air pollution: Evidence from residential electricity consumption in China. <i>Energy Economics</i> , 2020, 86, 104684.	12.1	38
30	Studies on a Severe Dust Storm in East Asia and Its Impact on the Air Quality of Nanjing, China. <i>Aerosol and Air Quality Research</i> , 2013, 13, 179-193.	2.1	38
31	Trends in Air Pollution During 1996 - 2003 and Cross-Border Transport in City Clusters Over the Yangtze River Delta Region of China. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007, 18, 995.	0.6	37
32	Impact of 3DVAR assimilation of surface PM <sub>2.5</sub> observations on PM <sub>2.5</sub> forecasts over China during wintertime. <i>Atmospheric Environment</i> , 2018, 187, 34-49.	4.1	37
33	Transport, mixing and feedback of dust, biomass burning and anthropogenic pollutants in eastern Asia: a case study. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16345-16361.	4.9	36
34	Distinguishing Anthropogenic CO <sub>2</sub> Emissions From Different Energy Intensive Industrial Sources Using OCO <sub>2</sub> Observations: A Case Study in Northern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9462-9473.	3.3	36
35	The impacts of surface ozone pollution on winter wheat productivity in China – An econometric approach. <i>Environmental Pollution</i> , 2016, 208, 326-335.	7.5	35
36	Stage-specific, Nonlinear Surface Ozone Damage to Rice Production in China. <i>Scientific Reports</i> , 2017, 7, 44224.	3.3	35

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37	A numerical study of the impact of climate and emission changes on surface ozone over South China in autumn time in 2000–2050. <i>Atmospheric Environment</i> , 2013, 76, 227-237.	4.1	34
38	Long-range transport of ozone across the eastern China seas: A case study in coastal cities in southeastern China. <i>Science of the Total Environment</i> , 2021, 768, 144520.	8.0	34
39	Contrasting terrestrial carbon cycle responses to the 1997/98 and 2015/16 extreme El Niño events. <i>Earth System Dynamics</i> , 2018, 9, 1-14.	7.1	31
40	Terrestrial ecosystem carbon flux estimated using GOSAT and OCO-2 XCO <sub>2</sub> retrievals. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12067-12082.	4.9	31
41	Photochemical trajectory modeling of ozone concentrations in Hong Kong. <i>Environmental Pollution</i> , 2013, 180, 101-110.	7.5	30
42	Modeling heterogeneous chemical processes on aerosol surface. <i>Particuology</i> , 2010, 8, 308-318.	3.6	25
43	An Ozone Pool in South China: Investigations on Atmospheric Dynamics and Photochemical Processes Over the Pearl River Estuary. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12340-12355.	3.3	25
44	Ensemble forecasts of air quality in eastern China – Part 2: Evaluation of the MarcoPolo-Panda prediction system, version 1. <i>Geoscientific Model Development</i> , 2019, 12, 1241-1266.	3.6	25
45	CO Emissions Inferred From Surface CO Observations Over China in December 2013 and 2017. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031808.	3.3	24
46	Regional CO <sub>2</sub> fluxes from 2010 to 2015 inferred from GOSAT XCO <sub>2</sub> retrievals using a new version of the Global Carbon Assimilation System. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1963-1985.	4.9	23
47	Assessment of direct radiative forcing due to secondary organic aerosol over China with a regional climate model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 67, 24634.	1.6	22
48	Impacts of Synoptic Weather Patterns and their Persistency on Free Tropospheric Carbon Monoxide Concentrations and Outflow in Eastern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7024-7046.	3.3	22
49	Photochemistry of ozone pollution in autumn in Pearl River Estuary, South China. <i>Science of the Total Environment</i> , 2021, 754, 141812.	8.0	22
50	A 10-year global monthly averaged terrestrial net ecosystem exchange dataset inferred from the ACOS GOSAT v9 XCO <sub>2</sub> retrievals (GCAS2021). <i>Earth System Science Data</i> , 2022, 14, 3013-3037.	9.9	19
51	Influence of surface ozone on crop yield of maize in China. <i>Journal of Integrative Agriculture</i> , 2020, 19, 578-589.	3.5	18
52	Modulation of Land Photosynthesis by the Indian Ocean Dipole: Satellite-Based Observations and CMIP6 Future Projections. <i>Earth's Future</i> , 2021, 9, e2020EF001942.	6.3	18
53	Weather Condition Dominates Regional PM <sub>2.5</sub> Pollutions in the Eastern Coastal Provinces of China during Winter. <i>Aerosol and Air Quality Research</i> , 2018, 18, 969-980.	2.1	18
54	Contrasting interannual atmospheric CO <sub>2</sub> variabilities and their terrestrial mechanisms for two types of El Niño. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10333-10345.	4.9	17

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55	Damages of surface ozone: evidence from agricultural sector in China. <i>Environmental Research Letters</i> , 2018, 13, 034019.	5.2	17
56	Effect of ambient air quality on subjective well-being among Chinese working adults. <i>Journal of Cleaner Production</i> , 2021, 296, 126509.	9.3	17
57	Carbon balance of China constrained by CONTRAIL aircraft CO <sub>2</sub> measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10133-10144.	4.9	16
58	The status of carbon neutrality of the world's top 5 CO <sub>2</sub> emitters as seen by carbon satellites. <i>Fundamental Research</i> , 2022, 2, 357-366.	3.3	16
59	Spatial-temporal variations and process analysis of O <sub>3</sub> pollution in Hangzhou during the G20 summit. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5963-5976.	4.9	15
60	Peak growing season patterns and climate extremes-driven responses of gross primary production estimated by satellite and process based models over North America. <i>Agricultural and Forest Meteorology</i> , 2021, 298-299, 108292.	4.8	12
61	Methane emissions from terrestrial plants over China and their effects on methane concentrations in lower troposphere. <i>Science Bulletin</i> , 2009, 54, 304-310.	9.0	11
62	Constraining global terrestrial gross primary productivity in a global carbon assimilation system with OCO-2 chlorophyll fluorescence data. <i>Agricultural and Forest Meteorology</i> , 2021, 304-305, 108424.	4.8	10
63	Spaceborne detection of XCO <sub>2</sub> enhancement induced by Australian mega-bushfires. <i>Environmental Research Letters</i> , 2020, 15, 124069.	5.2	9
64	Anthropogenic emissions estimated using surface observations and their impacts on PM <sub>2.5</sub> source apportionment over the Yangtze River Delta, China. <i>Science of the Total Environment</i> , 2022, 828, 154522.	8.0	9
65	China's Terrestrial Carbon Sink Over 2010-2015 Constrained by Satellite Observations of Atmospheric CO <sub>2</sub> and Land Surface Variables. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	8
66	Evaluation of Clumping Effects on the Estimation of Global Terrestrial Evapotranspiration. <i>Remote Sensing</i> , 2021, 13, 4075.	4.0	7
67	Global Terrestrial Ecosystem Carbon Flux Inferred from TanSat XCO <sub>2</sub> Retrievals. <i>Journal of Remote Sensing</i> , 2022, 2022, .	6.7	7
68	Outdoor heat stress and cognition: Effects on those over 40 years old in China. <i>Weather and Climate Extremes</i> , 2021, 32, 100308.	4.1	6
69	Impact of different ERA reanalysis data on GPP simulation. <i>Ecological Informatics</i> , 2022, 68, 101520.	5.2	5
70	Optimizing photosynthetic and respiratory parameters based on the seasonal variation pattern in regional net ecosystem productivity obtained from atmospheric inversion. <i>Science Bulletin</i> , 2015, 60, 1954-1961.	9.0	4
71	A global carbon assimilation system based on a dual optimization method. <i>Biogeosciences</i> , 2015, 12, 1131-1150.	3.3	4
72	Considerable Uncertainties in Simulating Land Carbon Sinks Induced by Different Precipitation Products. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006524.	3.0	4

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73	Gale Change and Grading for Power Grid Wind Zone in Jiangsu Province. , 2019, , .		1
74	Ensemble Satellite Land Products Deepen the Interpretation of Drought Impacts on Terrestrial Carbon Cycle in Europe Over 2001â€“2015. , 2019, , .		1
75	Potential Impacts of Urban Sprawl on the Thermal Environment in the Nanjing Metropolitan Area Based on the SLEUTH and WRF Models. , 2019, , 215-239.		0