

Fei Jiang

List of Publications by Year in descending order

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75
papers

3,060
citations

126907
33
h-index

182427
51
g-index

109
all docs

109
docs citations

109
times ranked

2815
citing authors

#	ARTICLE	IF	CITATIONS
1	Aggravating O ₃ pollution due to NO _x 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 ₃ 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 ₃ 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 ₁₀ 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 _x Emission Changes Over China During the COVID-19 Epidemic Inferred From Surface NO ₂ 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. Journal of Geophysical Research, 2010, 115, .	3.3	51
20	Intercomparison of O ₃ formation and radical chemistry in the past decade at a suburban site in Hong Kong. Atmospheric Chemistry and Physics, 2019, 19, 5127-5145.	4.9	47
21	Modeling tropospheric ozone formation over East China in springtime. Journal of Atmospheric Chemistry, 2012, 69, 303-319.	3.2	46
22	Investigation on semi-direct and indirect climate effects of fossil fuel black carbon aerosol over China. Theoretical and Applied Climatology, 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. Atmospheric Chemistry and Physics, 2015, 15, 2843-2866.	4.9	44
24	Nested atmospheric inversion for the terrestrial carbon sources and sinks in China. Biogeosciences, 2013, 10, 5311-5324.	3.3	40
25	Investigation on the direct radiative effect of fossil fuel black-carbon aerosol over China. Theoretical and Applied Climatology, 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. Geoscientific Model Development, 2019, 12, 33-67.	3.6	39
27	Impact of weather and emission changes on NO ₂ concentrations in China during 2014–2019. Environmental Pollution, 2021, 269, 116163.	7.5	39
28	Establishing a conceptual model for photochemical ozone pollution in subtropical Hong Kong. Atmospheric Environment, 2013, 76, 208-220.	4.1	38
29	Self-aggravation effect of air pollution: Evidence from residential electricity consumption in China. Energy Economics, 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. Aerosol and Air Quality Research, 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. Terrestrial, Atmospheric and Oceanic Sciences, 2007, 18, 995.	0.6	37
32	Impact of 3DVAR assimilation of surface PM _{2.5} observations on PM _{2.5} forecasts over China during wintertime. Atmospheric Environment, 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. Atmospheric Chemistry and Physics, 2018, 18, 16345-16361.	4.9	36
34	Distinguishing Anthropogenic CO ₂ Emissions From Different Energy Intensive Industrial Sources Using OCO ₂ Observations: A Case Study in Northern China. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9462-9473.	3.3	36
35	The impacts of surface ozone pollution on winter wheat productivity in China – An econometric approach. Environmental Pollution, 2016, 208, 326-335.	7.5	35
36	Stage-specific, Nonlinear Surface Ozone Damage to Rice Production in China. Scientific Reports, 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 ₂ 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 ₂ fluxes from 2010 to 2015 inferred from GOSAT XCO ₂ 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 ₂ 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 _{2.5} 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 ₂ variabilities and their terrestrial mechanisms for two types of El Niño events. <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. Environmental Research Letters, 2018, 13, 034019.	5.2	17
56	Effect of ambient air quality on subjective well-being among Chinese working adults. Journal of Cleaner Production, 2021, 296, 126509.	9.3	17
57	Carbon balance of China constrained by CONTRAIL aircraft CO ₂ measurements. Atmospheric Chemistry and Physics, 2014, 14, 10133-10144.	4.9	16
58	The status of carbon neutrality of the world's top 5 CO ₂ emitters as seen by carbon satellites. Fundamental Research, 2022, 2, 357-366.	3.3	16
59	Spatial-temporal variations and process analysis of O ₃ pollution in Hangzhou during the G20 summit. Atmospheric Chemistry and Physics, 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. Agricultural and Forest Meteorology, 2021, 298-299, 108292.	4.8	12
61	Methane emissions from terrestrial plants over China and their effects on methane concentrations in lower troposphere. Science Bulletin, 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. Agricultural and Forest Meteorology, 2021, 304-305, 108424.	4.8	10
63	Spaceborne detection of XCO ₂ enhancement induced by Australian mega-bushfires. Environmental Research Letters, 2020, 15, 124069.	5.2	9
64	Anthropogenic emissions estimated using surface observations and their impacts on PM _{2.5} source apportionment over the Yangtze River Delta, China. Science of the Total Environment, 2022, 828, 154522.	8.0	9
65	China's Terrestrial Carbon Sink Over 2010-2015 Constrained by Satellite Observations of Atmospheric CO ₂ and Land Surface Variables. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	8
66	Evaluation of Clumping Effects on the Estimation of Global Terrestrial Evapotranspiration. Remote Sensing, 2021, 13, 4075.	4.0	7
67	Global Terrestrial Ecosystem Carbon Flux Inferred from TanSat XCO ₂ Retrievals. Journal of Remote Sensing, 2022, 2022, .	6.7	7
68	Outdoor heat stress and cognition: Effects on those over 40 years old in China. Weather and Climate Extremes, 2021, 32, 100308.	4.1	6
69	Impact of different ERA reanalysis data on GPP simulation. Ecological Informatics, 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. Science Bulletin, 2015, 60, 1954-1961.	9.0	4
71	A global carbon assimilation system based on a dual optimization method. Biogeosciences, 2015, 12, 1131-1150.	3.3	4
72	Considerable Uncertainties in Simulating Land Carbon Sinks Induced by Different Precipitation Products. Journal of Geophysical Research G: Biogeosciences, 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