

Jane Liu

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.

125
papers

4,870
citations

37
h-index

67
g-index

159
ext. papers

6,032
ext. citations

6.1
avg. IF

5.67
L-index

#	Paper	IF	Citations
125	Regional transport patterns for heavy PM2.5 pollution driven by strong cold airflows in Twain-Hu Basin, Central China. <i>Atmospheric Environment</i> , 2022 , 269, 118847	5.3	2
124	Atmospheric transport drives regional interactions of ozone pollution in China.. <i>Science of the Total Environment</i> , 2022 , 154634	10.2	0
123	Exploring the ozone pollution over the western Sichuan Basin, Southwest China: The impact of diurnal change in mountain-plains solenoid. <i>Science of the Total Environment</i> , 2022 , 839, 156264	10.2	0
122	Continuous rise of the tropopause in the Northern Hemisphere over 1980-2020. <i>Science Advances</i> , 2021 , 7, eabi8065	14.3	6
121	Positive and negative influences of typhoons on tropospheric ozone over southern China. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 16911-16923	6.8	1
120	The Role of Natural Halogens in Global Tropospheric Ozone Chemistry and Budget Under Different 21st Century Climate Scenarios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034859	4.4	1
119	ENSO modulates wildfire activity in China. <i>Nature Communications</i> , 2021 , 12, 1764	17.4	14
118	Surface Ozone in the Yangtze River Delta, China: A Synthesis of Basic Features, Meteorological Driving Factors, and Health Impacts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033600	4.4	6
117	Biases of Global Tropopause Altitude Products in Reanalyses and Implications for Estimates of Tropospheric Column Ozone. <i>Atmosphere</i> , 2021 , 12, 417	2.7	0
116	Tropospheric ozone in CMIP6 simulations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4187-4218	6.8	27
115	Ozone variability induced by synoptic weather patterns in warm seasons of 2014-2018 over the Yangtze River Delta region, China. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5847-5864	6.8	8
114	Chinese Regulations Are Working Why Is Surface Ozone Over Industrialized Areas Still High? Applying Lessons From Northeast US Air Quality Evolution. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092816	4.9	11
113	Importance of meteorology in air pollution events during the city lockdown for COVID-19 in Hubei Province, Central China. <i>Science of the Total Environment</i> , 2021 , 754, 142227	10.2	46
112	Drivers for the poor air quality conditions in North China Plain during the COVID-19 outbreak. <i>Atmospheric Environment</i> , 2021 , 246, 118103	5.3	28
111	Rising surface ozone in China from 2013 to 2017: A response to the recent atmospheric warming or pollutant controls?. <i>Atmospheric Environment</i> , 2021 , 246, 118130	5.3	10
110	A teleconnection between sea surface temperature in the central and eastern Pacific and wintertime haze variations in southern China. <i>Theoretical and Applied Climatology</i> , 2021 , 143, 349-359	3	0
109	Crop Biomass Mapping Based on Ecosystem Modeling at Regional Scale Using High Resolution Sentinel-2 Data. <i>Remote Sensing</i> , 2021 , 13, 806	5	2

108	Quantifying spatio-temporal variations of evapotranspiration over a heterogeneous terrain in the Arid regions of Northwestern China.. <i>International Journal of Remote Sensing</i> , 2021 , 42, 3231-3254	3.1	0
107	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	6.8	7
106	Regional Forecasting of Fine Particulate Matter Concentrations: A Novel Hybrid Model Based on Principal Component Regression and EOF. <i>Earth and Space Science</i> , 2021 , 8, e2021EA001694	3.1	
105	Seasonal variations in energy exchange and evapotranspiration of an oasis-desert ecotone in an arid region. <i>Hydrological Processes</i> , 2021 , 35, e14364	3.3	1
104	Fine-scale leaf chlorophyll distribution across a deciduous forest through two-step model inversion from Sentinel-2 data. <i>Remote Sensing of Environment</i> , 2021 , 264, 112618	13.2	3
103	Nocturnal surface radiation cooling modulated by cloud cover change reinforces PM accumulation: Observational study of heavy air pollution in the Sichuan Basin, Southwest China. <i>Science of the Total Environment</i> , 2021 , 794, 148624	10.2	2
102	Satellite-Observed Variations and Trends in Carbon Monoxide over Asia and Their Sensitivities to Biomass Burning. <i>Remote Sensing</i> , 2020 , 12, 830	5	11
101	Tropospheric ozone in CMIP6 Simulations 2020 ,		5
100	Characterizing regional aerosol pollution in central China based on 19 years of MODIS data: Spatiotemporal variation and aerosol type discrimination. <i>Environmental Pollution</i> , 2020 , 263, 114556	9.3	19
99	Regional Climate Responses in East Asia to the Black Carbon Aerosol Direct Effects from India and China in Summer. <i>Journal of Climate</i> , 2020 , 33, 9783-9800	4.4	2
98	Impacts of atmospheric transport and biomass burning on the inter-annual variation in black carbon aerosols over the Tibetan Plateau. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 13591-13610	6.8	5
97	Ozone affected by a succession of four landfall typhoons in the Yangtze River Delta, China: major processes and health impacts. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 13781-13799	6.8	10
96	Local and synoptic meteorological influences on daily variability in summertime surface ozone in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 203-222	6.8	55
95	Importance of Bias Correction in Data Assimilation of Multiple Observations Over Eastern China Using WRF-Chem/DART. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031465	4.4	10
94	Evolution of evapotranspiration models using thermal and shortwave remote sensing data. <i>Remote Sensing of Environment</i> , 2020 , 237, 111594	13.2	60
93	Importance of Shaded Leaf Contribution to the Total GPP of Canadian Terrestrial Ecosystems: Evaluation of MODIS GPP. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2020JG005917	3.7	1
92	Estimating wildfire-generated ozone over North America using ozonesonde profiles and a differential back trajectory technique. <i>Atmospheric Environment: X</i> , 2020 , 7, 100078	2.8	6
91	Systematic classification of circulation patterns and integrated analysis of their effects on different ozone pollution levels in the Yangtze River Delta Region, China. <i>Atmospheric Environment</i> , 2020 , 242, 117760	5.3	14

90	Estimating crop biomass using leaf area index derived from Landsat 8 and Sentinel-2 data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020 , 168, 236-250	11.8	25
89	Characteristics of ozone and particles in the near-surface atmosphere in the urban area of the Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4153-4175	6.8	17
88	Stratospheric ozone loss in the Arctic winters between 2005 and 2013 derived with ACE-FTS measurements. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 577-601	6.8	8
87	Collective impacts of biomass burning and synoptic weather on surface PM _{2.5} and CO in Northeast China. <i>Atmospheric Environment</i> , 2019 , 213, 64-80	5.3	21
86	Formation and Evolution Mechanisms for Two Extreme Haze Episodes in the Yangtze River Delta Region of China During Winter 2016. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 3607-3623	4.4	27
85	The direct effects of black carbon aerosols from different source sectors in East Asia in summer. <i>Climate Dynamics</i> , 2019 , 53, 5293-5310	4.2	16
84	Exploring SMAP and OCO-2 observations to monitor soil moisture control on photosynthetic activity of global drylands and croplands. <i>Remote Sensing of Environment</i> , 2019 , 232, 111314	13.2	11
83	Diverse photosynthetic capacity of global ecosystems mapped by satellite chlorophyll fluorescence measurements. <i>Remote Sensing of Environment</i> , 2019 , 232, 111344-111344	13.2	33
82	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. <i>Elementa</i> , 2019 , 7,	3.6	60
81	Foreign influences on tropospheric ozone over East Asia through global atmospheric transport. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12495-12514	6.8	9
80	Quantifying stratosphere-troposphere transport of ozone using balloon-borne ozonesondes, radar windprofilers and trajectory models. <i>Atmospheric Environment</i> , 2019 , 198, 496-509	5.3	25
79	Comparison of Big-Leaf, Two-Big-Leaf, and Two-Leaf Upscaling Schemes for Evapotranspiration Estimation Using Coupled Carbon-Water Modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 207-225	3.7	32
78	Characteristics of intercontinental transport of tropospheric ozone from Africa to Asia. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 4251-4276	6.8	11
77	The optical properties, physical properties and direct radiative forcing of urban columnar aerosols in the Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1419-1436	6.8	16
76	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	4.4	13
75	Tropospheric Ozone Assessment Report: Present-day distribution and trends of tropospheric ozone relevant to climate and global atmospheric chemistry model evaluation. <i>Elementa</i> , 2018 , 6,	3.6	160
74	Stratospheric ozone loss in the Arctic winters between 2005 and 2013 derived with ACE-FTS measurements 2018 ,		1
73	An important mechanism of regional O ₃ transport for summer smog over the Yangtze River Delta in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 16239-16251	6.8	30

72	Interaction between the Black Carbon Aerosol Warming Effect and East Asian Monsoon Using RegCM4. <i>Journal of Climate</i> , 2018 , 31, 9367-9388	4.4	13
71	Evaluation of Sentinel-2A Surface Reflectance Derived Using Sen2Cor in North America. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 1997-2021	4.7	31
70	Long Temporal Analysis of 3-km MODIS Aerosol Product Over East China. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 2478-2490	4.7	7
69	Angular normalization of GOME-2 Sun-induced chlorophyll fluorescence observation as a better proxy of vegetation productivity. <i>Geophysical Research Letters</i> , 2017 , 44, 5691-5699	4.9	62
68	Sensitivity of climate effects of black carbon in China to its size distributions. <i>Atmospheric Research</i> , 2017 , 185, 118-130	5.4	6
67	The Impacts of Meteorology on the Seasonal and Interannual Variabilities of Ozone Transport From North America to East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10,612-10,636	4.4	8
66	Assessment of SMAP soil moisture for global simulation of gross primary production. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 1549-1563	3.7	36
65	Regional and Hemispheric Influences on Temporal Variability in Baseline Carbon Monoxide and Ozone over the Northeast US. <i>Atmospheric Environment</i> , 2017 , 164, 309-324	5.3	12
64	Nitrogen Availability Dampens the Positive Impacts of CO2 Fertilization on Terrestrial Ecosystem Carbon and Water Cycles. <i>Geophysical Research Letters</i> , 2017 , 44, 11,590-11,600	4.9	34
63	The surface aerosol optical properties in the urban area of Nanjing, west Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1143-1160	6.8	27
62	The optical, physical properties and direct radiative forcing of urban columnar aerosols in Yangtze River Delta, China 2017 ,		1
61	Inter- and intra-annual variations of clumping index derived from the MODIS BRDF product. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016 , 44, 53-60	7.3	34
60	Carbon monoxide climatology derived from the trajectory mapping of global MOZAIC-IAGOS data. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 10263-10282	6.8	10
59	Impacts of anthropogenic and natural sources on free tropospheric ozone over the Middle East. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6537-6546	6.8	7
58	Assessment of foliage clumping effects on evapotranspiration estimates in forested ecosystems. <i>Agricultural and Forest Meteorology</i> , 2016 , 216, 82-92	5.8	47
57	Characterizing pollution weather patterns using satellite carbon monoxide data 2016 ,		0
56	Climatic analysis of satellite aerosol data on variations of submicron aerosols over East China. <i>Atmospheric Environment</i> , 2015 , 123, 392-398	5.3	24
55	Vertical sensitivity of satellite remote sensing of atmospheric carbon monoxide 2015 ,		0

54	The interactions between anthropogenic aerosols and the East Asian summer monsoon using RegCCMS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 5602-5621	4.4	38
53	Why does surface ozone peak before a typhoon landing in southeast China?. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13331-13338	6.8	44
52	Absorption coefficient of urban aerosol in Nanjing, west Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13633-13646	6.8	20
51	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	6.8	34
50	Optical properties and radiative forcing of urban aerosols in Nanjing, China. <i>Atmospheric Environment</i> , 2014 , 83, 43-52	5.3	59
49	Optimization of water uptake and photosynthetic parameters in an ecosystem model using tower flux data. <i>Ecological Modelling</i> , 2014 , 294, 94-104	3	25
48	Continuous measurement of black carbon aerosol in urban Nanjing of Yangtze River Delta, China. <i>Atmospheric Environment</i> , 2014 , 89, 415-424	5.3	47
47	Meteorological Influences on Seasonal Variation of Fine Particulate Matter in Cities over Southern Ontario, Canada. <i>Advances in Meteorology</i> , 2014 , 2014, 1-15	1.7	8
46	Impacts of the East Asian monsoon on lower tropospheric ozone over coastal South China. <i>Environmental Research Letters</i> , 2013 , 8, 044011	6.2	38
45	A global ozone climatology from ozone soundings via trajectory mapping: a stratospheric perspective. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11441-11464	6.8	31
44	A global tropospheric ozone climatology from trajectory-mapped ozone soundings. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10659-10675	6.8	40
43	Improved assessment of gross and net primary productivity of Canada's landmass. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 1546-1560	3.7	31
42	Effects of foliage clumping on the estimation of global terrestrial gross primary productivity. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	204
41	Quantifying the impact of model errors on top-down estimates of carbon monoxide emissions using satellite observations. <i>Journal of Geophysical Research</i> , 2011 , 116,		53
40	Application of SCIAMACHY and MOPITT CO total column measurements to evaluate model results over biomass burning regions and Eastern China. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6083-6114	6.8	30
39	Influence of interannual variations in transport on summertime abundances of ozone over the Middle East. <i>Journal of Geophysical Research</i> , 2011 , 116,		25
38	High-resolution tropospheric ozone fields for INTEX and ARCTAS from IONS ozonesondes. <i>Journal of Geophysical Research</i> , 2010 , 115,		31
37	Correction to Analysis of the summertime buildup of tropospheric ozone abundances over the Middle East and North Africa as observed by the Tropospheric Emission Spectrometer Instrument. <i>Journal of Geophysical Research</i> , 2009 , 114,		12

36	Observed vertical distribution of tropospheric ozone during the Asian summertime monsoon. <i>Journal of Geophysical Research</i> , 2009 , 114,		46
35	Analysis of the summertime buildup of tropospheric ozone abundances over the Middle East and North Africa as observed by the Tropospheric Emission Spectrometer instrument. <i>Journal of Geophysical Research</i> , 2009 , 114,		61
34	The zonal structure of tropical O ₃ and CO as observed by the Tropospheric Emission Spectrometer in November 2004 [Part 1: Inverse modeling of CO emissions. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3547-3562	6.8	58
33	Measurement of low-altitude CO over the Indian subcontinent by MOPITT. <i>Journal of Geophysical Research</i> , 2008 , 113,		39
32	Observation and simulation of net primary productivity in Qilian Mountain, western China. <i>Journal of Environmental Management</i> , 2007 , 85, 574-84	7.9	45
31	Net primary productivity of China's terrestrial ecosystems from a process model driven by remote sensing. <i>Journal of Environmental Management</i> , 2007 , 85, 563-73	7.9	173
30	Large horizontal gradients in atmospheric CO at the synoptic scale as seen by spaceborne Measurements of Pollution in the Troposphere. <i>Journal of Geophysical Research</i> , 2006 , 111,		21
29	Carbon monoxide (CO) maximum over the Zagros mountains in the Middle East: Signature of mountain venting?. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	12
28	Boreal ecosystems sequestered more carbon in warmer years. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	38
27	Modelling multi-year coupled carbon and water fluxes in a boreal aspen forest. <i>Agricultural and Forest Meteorology</i> , 2006 , 140, 136-151	5.8	154
26	Simulations of seasonal and inter-annual variability of gross primary productivity at Takayama with BEPS ecosystem model. <i>Agricultural and Forest Meteorology</i> , 2005 , 134, 143-150	5.8	12
25	Satellite mapping of CO emission from forest fires in Northwest America using MOPITT measurements. <i>Remote Sensing of Environment</i> , 2005 , 95, 502-516	13.2	37
24	Spatial scaling of net primary productivity using subpixel information. <i>Remote Sensing of Environment</i> , 2004 , 93, 246-258	13.2	39
23	Spatial distribution of net primary productivity and evapotranspiration in Changbaishan Natural Reserve, China, using Landsat ETM+ data. <i>Canadian Journal of Remote Sensing</i> , 2004 , 30, 731-742	1.8	33
22	A Vertical Diffusion Scheme to estimate the atmospheric rectifier effect. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		15
21	Spatial and temporal variation of MOPITT CO in Africa and South America: A comparison with SHADOZ ozone and MODIS aerosol. <i>Journal of Geophysical Research</i> , 2004 , 109,		35
20	Evidence of vertical transport of carbon monoxide from Measurements of Pollution in the Troposphere (MOPITT). <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	79
19	Spatial distribution of carbon sources and sinks in Canada's forests. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003 , 55, 622-641	3.3	27

18	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003 , 55, 622-641	3.3	116
17	Multi-angular optical remote sensing for assessing vegetation structure and carbon absorption. <i>Remote Sensing of Environment</i> , 2003 , 84, 516-525	13.2	199
16	Mapping evapotranspiration based on remote sensing: An application to Canada's landmass. <i>Water Resources Research</i> , 2003 , 39,	5.4	97
15	Post-fire carbon dioxide fluxes in the western Canadian boreal forest: evidence from towers, aircraft and remote sensing. <i>Agricultural and Forest Meteorology</i> , 2003 , 115, 91-107	5.8	53
14	National Scale Forest Information Extraction from Coarse Resolution Satellite Data, Part 2 2003 , 359-387		
13	Net primary productivity mapped for Canada at 1-km resolution. <i>Global Ecology and Biogeography</i> , 2002 , 11, 115-129	6.1	116
12	Comparison of boreal ecosystem model sensitivity to variability in climate and forest site parameters. <i>Journal of Geophysical Research</i> , 2001 , 106, 33671-33687		46
11	Carbon Offset Potentials of Four Alternative Forest Management Strategies in Canada: A Simulation Study. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2000 , 5, 143-169	3.9	19
10	Net primary productivity following forest fire for Canadian ecoregions. <i>Canadian Journal of Forest Research</i> , 2000 , 30, 939-947	1.9	79
9	Approaches for reducing uncertainties in regional forest carbon balance. <i>Global Biogeochemical Cycles</i> , 2000 , 14, 827-838	5.9	66
8	Annual carbon balance of Canada's forests during 1895-1996. <i>Global Biogeochemical Cycles</i> , 2000 , 14, 839-849	5.9	129
7	Daily canopy photosynthesis model through temporal and spatial scaling for remote sensing applications. <i>Ecological Modelling</i> , 1999 , 124, 99-119	3	481
6	Net primary productivity distribution in the BOREAS region from a process model using satellite and surface data. <i>Journal of Geophysical Research</i> , 1999 , 104, 27735-27754		138
5	A process-based boreal ecosystem productivity simulator using remote sensing inputs. <i>Remote Sensing of Environment</i> , 1997 , 62, 158-175	13.2	364
4	On the CO ₂ exchange between the atmosphere and the biosphere: the role of synoptic and mesoscale processes		20
3	A global tropospheric ozone climatology from trajectory-mapped ozone soundings		1
2	Why does surface ozone peak before a typhoon landing in southeast China?		1
1	Carbon monoxide climatology derived from the trajectory mapping of global MOZAIC-IAGOS data		1

