

Jane Liu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1321839/jane-liu-publications-by-citations.pdf>

Version: 2024-04-20

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.

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	Daily canopy photosynthesis model through temporal and spatial scaling for remote sensing applications. <i>Ecological Modelling</i> , 1999 , 124, 99-119	3	481
124	A process-based boreal ecosystem productivity simulator using remote sensing inputs. <i>Remote Sensing of Environment</i> , 1997 , 62, 158-175	13.2	364
123	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
122	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
121	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
120	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
119	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
118	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
117	Annual carbon balance of Canada's forests during 1895-1996. <i>Global Biogeochemical Cycles</i> , 2000 , 14, 839-849	5.9	129
116	Net primary productivity mapped for Canada at 1-km resolution. <i>Global Ecology and Biogeography</i> , 2002 , 11, 115-129	6.1	116
115	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003 , 55, 622-641	3.3	116
114	Mapping evapotranspiration based on remote sensing: An application to Canada's landmass. <i>Water Resources Research</i> , 2003 , 39,	5.4	97
113	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
112	Net primary productivity following forest fire for Canadian ecoregions. <i>Canadian Journal of Forest Research</i> , 2000 , 30, 939-947	1.9	79
111	Approaches for reducing uncertainties in regional forest carbon balance. <i>Global Biogeochemical Cycles</i> , 2000 , 14, 827-838	5.9	66
110	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
109	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

108	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. <i>Elementa</i> , 2019 , 7,	3.6	60
107	Evolution of evapotranspiration models using thermal and shortwave remote sensing data. <i>Remote Sensing of Environment</i> , 2020 , 237, 111594	13.2	60
106	Optical properties and radiative forcing of urban aerosols in Nanjing, China. <i>Atmospheric Environment</i> , 2014 , 83, 43-52	5.3	59
105	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
104	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
103	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
102	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
101	Assessment of foliage clumping effects on evapotranspiration estimates in forested ecosystems. <i>Agricultural and Forest Meteorology</i> , 2016 , 216, 82-92	5.8	47
100	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
99	Observed vertical distribution of tropospheric ozone during the Asian summertime monsoon. <i>Journal of Geophysical Research</i> , 2009 , 114,		46
98	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
97	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
96	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
95	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
94	A global tropospheric ozone climatology from trajectory-mapped ozone soundings. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10659-10675	6.8	40
93	Measurement of low-altitude CO over the Indian subcontinent by MOPITT. <i>Journal of Geophysical Research</i> , 2008 , 113,		39
92	Spatial scaling of net primary productivity using subpixel information. <i>Remote Sensing of Environment</i> , 2004 , 93, 246-258	13.2	39
91	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

90	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
89	Boreal ecosystems sequestered more carbon in warmer years. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	38
88	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
87	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
86	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
85	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
84	Nitrogen Availability Dampens the Positive Impacts of CO ₂ Fertilization on Terrestrial Ecosystem Carbon and Water Cycles. <i>Geophysical Research Letters</i> , 2017 , 44, 11,590-11,600	4.9	34
83	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
82	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
81	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
80	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
79	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
78	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
77	High-resolution tropospheric ozone fields for INTEX and ARCTAS from IONS ozonesondes. <i>Journal of Geophysical Research</i> , 2010 , 115,		31
76	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
75	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
74	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
73	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

72	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
71	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
70	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
69	Tropospheric ozone in CMIP6 simulations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4187-4218	6.8	27
68	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
67	Influence of interannual variations in transport on summertime abundances of ozone over the Middle East. <i>Journal of Geophysical Research</i> , 2011 , 116,		25
66	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
65	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
64	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
63	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
62	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
61	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
60	On the CO ₂ exchange between the atmosphere and the biosphere: the role of synoptic and mesoscale processes		20
59	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
58	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
57	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
56	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
55	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

54	A Vertical Diffusion Scheme to estimate the atmospheric rectifier effect. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		15
53	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
52	ENSO modulates wildfire activity in China. <i>Nature Communications</i> , 2021 , 12, 1764	17.4	14
51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	Characteristics of intercontinental transport of tropospheric ozone from Africa to Asia. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 4251-4276	6.8	11
43	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
42	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
41	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
40	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
39	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
38	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
37	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

36	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
35	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
34	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
33	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
32	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
31	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
30	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
29	Sensitivity of climate effects of black carbon in China to its size distributions. <i>Atmospheric Research</i> , 2017 , 185, 118-130	5.4	6
28	Continuous rise of the tropopause in the Northern Hemisphere over 1980-2020. <i>Science Advances</i> , 2021 , 7, eabi8065	14.3	6
27	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
26	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	14.1	6
25	Tropospheric ozone in CMIP6 Simulations 2020 ,		5
24	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
23	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
22	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
21	Regional transport patterns for heavy PM _{2.5} pollution driven by strong cold airflows in Twain-Hu Basin, Central China. <i>Atmospheric Environment</i> , 2022 , 269, 118847	5.3	2
20	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
19	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

18	The optical, physical properties and direct radiative forcing of urban columnar aerosols in Yangtze River Delta, China 2017 ,		1
17	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
16	A global tropospheric ozone climatology from trajectory-mapped ozone soundings		1
15	Why does surface ozone peak before a typhoon landing in southeast China?		1
14	Carbon monoxide climatology derived from the trajectory mapping of global MOZAIC-IAGOS data		1
13	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
12	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
11	Stratospheric ozone loss in the Arctic winters between 2005 and 2013 derived with ACE-FTS measurements 2018 ,		1
10	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
9	Vertical sensitivity of satellite remote sensing of atmospheric carbon monoxide 2015 ,		0
8	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
7	Characterizing pollution weather patterns using satellite carbon monoxide data 2016 ,		0
6	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
5	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
4	Atmospheric transport drives regional interactions of ozone pollution in China.. <i>Science of the Total Environment</i> , 2022 , 154634	10.2	0
3	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
2	National Scale Forest Information Extraction from Coarse Resolution Satellite Data, Part 2 2003 , 359-387		
1	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	

