

Xiaoyang Zhang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1655956/xiaoyang-zhang-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.

99
papers

7,908
citations

35
h-index

88
g-index

104
ext. papers

9,241
ext. citations

7
avg. IF

6.09
L-index

#	Paper	IF	Citations
99	First operational BRDF, albedo nadir reflectance products from MODIS. <i>Remote Sensing of Environment</i> , 2002 , 83, 135-148	13.2	1683
98	Monitoring vegetation phenology using MODIS. <i>Remote Sensing of Environment</i> , 2003 , 84, 471-475	13.2	1575
97	Climate controls on vegetation phenological patterns in northern mid- and high latitudes inferred from MODIS data. <i>Global Change Biology</i> , 2004 , 10, 1133-1145	11.4	357
96	Land surface phenology from MODIS: Characterization of the Collection 5 global land cover dynamics product. <i>Remote Sensing of Environment</i> , 2010 , 114, 1805-1816	13.2	328
95	Global vegetation phenology from Moderate Resolution Imaging Spectroradiometer (MODIS): Evaluation of global patterns and comparison with in situ measurements. <i>Journal of Geophysical Research</i> , 2006 , 111,		325
94	Estimating emissions from fires in North America for air quality modeling. <i>Atmospheric Environment</i> , 2006 , 40, 3419-3432	5.3	301
93	Toward mapping crop progress at field scales through fusion of Landsat and MODIS imagery. <i>Remote Sensing of Environment</i> , 2017 , 188, 9-25	13.2	257
92	Diverse responses of vegetation phenology to a warming climate. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	207
91	Biomass burning impact on PM _{2.5} over the southeastern US during 2007: integrating chemically speciated FRM filter measurements, MODIS fire counts and PMF analysis. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6839-6853	6.8	180
90	The footprint of urban climates on vegetation phenology. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a.	4.9	176
89	Monitoring the response of vegetation phenology to precipitation in Africa by coupling MODIS and TRMM instruments. <i>Journal of Geophysical Research</i> , 2005 , 110,		159
88	Remote sensing of the terrestrial carbon cycle: A review of advances over 50 years. <i>Remote Sensing of Environment</i> , 2019 , 233, 111383	13.2	116
87	Sensitivity of vegetation phenology detection to the temporal resolution of satellite data. <i>International Journal of Remote Sensing</i> , 2009 , 30, 2061-2074	3.1	116
86	Exploration of scaling effects on coarse resolution land surface phenology. <i>Remote Sensing of Environment</i> , 2017 , 190, 318-330	13.2	107
85	Reconstruction of a complete global time series of daily vegetation index trajectory from long-term AVHRR data. <i>Remote Sensing of Environment</i> , 2015 , 156, 457-472	13.2	105
84	Using data from Landsat, MODIS, VIIRS and PhenoCams to monitor the phenology of California oak/grass savanna and open grassland across spatial scales. <i>Agricultural and Forest Meteorology</i> , 2017 , 237-238, 311-325	5.8	96
83	Evaluation of land surface phenology from VIIRS data using time series of PhenoCam imagery. <i>Agricultural and Forest Meteorology</i> , 2018 , 256-257, 137-149	5.8	85

82	Monitoring fall foliage coloration dynamics using time-series satellite data. <i>Remote Sensing of Environment</i> , 2011 , 115, 382-391	13.2	77
81	Interannual variations and trends in global land surface phenology derived from enhanced vegetation index during 1982-2010. <i>International Journal of Biometeorology</i> , 2014 , 58, 547-64	3.7	68
80	Evaluation of the VIIRS BRDF, Albedo and NBAR products suite and an assessment of continuity with the long term MODIS record. <i>Remote Sensing of Environment</i> , 2017 , 201, 256-274	13.2	62
79	Generation and evaluation of the VIIRS land surface phenology product. <i>Remote Sensing of Environment</i> , 2018 , 216, 212-229	13.2	62
78	Near-real-time global biomass burning emissions product from geostationary satellite constellation. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		61
77	Spring green-up phenology products derived from MODIS NDVI and EVI: Intercomparison, interpretation and validation using National Phenology Network and AmeriFlux observations. <i>Ecological Indicators</i> , 2017 , 77, 323-336	5.8	60
76	Monitoring interannual variation in global crop yield using long-term AVHRR and MODIS observations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016 , 114, 191-205	11.8	60
75	Drought-induced vegetation stress in southwestern North America. <i>Environmental Research Letters</i> , 2010 , 5, 024008	6.2	59
74	Near real time monitoring of biomass burning particulate emissions (PM2.5) across contiguous United States using multiple satellite instruments. <i>Atmospheric Environment</i> , 2008 , 42, 6959-6972	5.3	58
73	Temporal and spatial variability in biomass burned areas across the USA derived from the GOES fire product. <i>Remote Sensing of Environment</i> , 2008 , 112, 2886-2897	13.2	50
72	Satellite detection of cumulative and lagged effects of drought on autumn leaf senescence over the Northern Hemisphere. <i>Global Change Biology</i> , 2019 , 25, 2174-2188	11.4	49
71	Monitoring land surface albedo and vegetation dynamics using high spatial and temporal resolution synthetic time series from Landsat and the MODIS BRDF/NBAR/albedo product. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2017 , 59, 104-117	7.3	42
70	Sensitivity of mesoscale modeling of smoke direct radiative effect to the emission inventory: a case study in northern sub-Saharan African region. <i>Environmental Research Letters</i> , 2014 , 9, 075002	6.2	42
69	Development and evaluation of a new algorithm for detecting 30 m land surface phenology from VIIRS and HLS time series. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020 , 161, 37-51	11.8	40
68	Scaling effects on spring phenology detections from MODIS data at multiple spatial resolutions over the contiguous United States. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017 , 132, 185-198	11.8	39
67	Estimation of biomass-burning emissions by fusing the fire radiative power retrievals from polar-orbiting and geostationary satellites across the conterminous United States. <i>Atmospheric Environment</i> , 2019 , 211, 274-287	5.3	38
66	Daily MODIS 500 m reflectance anisotropy direct broadcast (DB) products for monitoring vegetation phenology dynamics. <i>International Journal of Remote Sensing</i> , 2013 , 34, 5997-6016	3.1	37
65	Intercomparison and evaluation of spring phenology products using National Phenology Network and AmeriFlux observations in the contiguous United States. <i>Agricultural and Forest Meteorology</i> , 2017 , 242, 33-46	5.8	35

64	Comparisons of global land surface seasonality and phenology derived from AVHRR, MODIS, and VIIRS data. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 1506-1525	3-7	33
63	Interannual variation in biomass burning and fire seasonality derived from geostationary satellite data across the contiguous United States from 1995 to 2011. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 1147-1162	3-7	33
62	Comparison of Fire Radiative Power Estimates From VIIRS and MODIS Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4545-4563	4-4	32
61	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 7513-7526	8.1	32
60	Long-term continuity in land surface phenology measurements: A comparative assessment of the MODIS land cover dynamics and VIIRS land surface phenology products. <i>Remote Sensing of Environment</i> , 2019 , 226, 74-92	13.2	31
59	A Comparison of Tropical Rainforest Phenology Retrieved From Geostationary (SEVIRI) and Polar-Orbiting (MODIS) Sensors Across the Congo Basin. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 4867-4881	8.1	30
58	Reconstruction of Daily 30 m Data from HJ CCD, GF-1 WFV, Landsat, and MODIS Data for Crop Monitoring. <i>Remote Sensing</i> , 2015 , 7, 16293-16314	5	27
57	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 4469-4482	8.1	26
56	Impacts of land cover and land use change on long-term trend of land surface phenology: a case study in agricultural ecosystems. <i>Environmental Research Letters</i> , 2019 , 14, 044020	6.2	25
55	Prototype for monitoring and forecasting fall foliage coloration in real time from satellite data. <i>Agricultural and Forest Meteorology</i> , 2012 , 158-159, 21-29	5.8	25
54	The Influences of Drought and Land-Cover Conversion on Inter-Annual Variation of NPP in the Three-North Shelterbelt Program Zone of China Based on MODIS Data. <i>PLoS ONE</i> , 2016 , 11, e0158173	3-7	24
53	Real-Time Monitoring of Crop Phenology in the Midwestern United States Using VIIRS Observations. <i>Remote Sensing</i> , 2018 , 10, 1540	5	23
52	Evaluating land surface phenology from the Advanced Himawari Imager using observations from MODIS and the Phenological Eyes Network. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019 , 79, 71-83	7.3	21
51	Real-time and short-term predictions of spring phenology in North America from VIIRS data. <i>Remote Sensing of Environment</i> , 2017 , 194, 89-99	13.2	20
50	A new algorithm for the estimation of leaf unfolding date using MODIS data over China's terrestrial ecosystems. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019 , 149, 77-90	11.8	20
49	A preliminary evaluation of GOES-16 active fire product using Landsat-8 and VIIRS active fire data, and ground-based prescribed fire records. <i>Remote Sensing of Environment</i> , 2020 , 237, 111600	13.2	19
48	Investigation of wildfire impacts on land surface phenology from MODIS time series in the western US forests. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020 , 159, 281-295	11.8	19
47	Interannual variations in spring phenology and their response to climate change across the Tibetan Plateau from 1982 to 2013. <i>International Journal of Biometeorology</i> , 2016 , 60, 1563-1575	3-7	18

46	Investigation of land surface phenology detections in shrublands using multiple scale satellite data. <i>Remote Sensing of Environment</i> , 2021 , 252, 112133	13.2	18
45	Burned Area Comparisons Between Prescribed Burning Permits in Southeastern United States and Two Satellite-Derived Products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4746-4757	4.4	16
44	Scaling up spring phenology derived from remote sensing images. <i>Agricultural and Forest Meteorology</i> , 2018 , 256-257, 207-219	5.8	16
43	Impacts of Thermal Time on Land Surface Phenology in Urban Areas. <i>Remote Sensing</i> , 2017 , 9, 499	5	16
42	Detecting spatiotemporal changes of peak foliage coloration in deciduous and mixed forests across the Central and Eastern United States. <i>Environmental Research Letters</i> , 2017 , 12, 024013	6.2	15
41	Impacts of wildfires on interannual trends in land surface phenology: an investigation of the Hayman Fire. <i>Environmental Research Letters</i> , 2017 , 12, 054008	6.2	15
40	Investigation of the Fire Radiative Energy Biomass Combustion Coefficient: A Comparison of Polar and Geostationary Satellite Retrievals Over the Conterminous United States. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 722-739	3.7	15
39	An Exploration of Terrain Effects on Land Surface Phenology across the Qinghai-Tibet Plateau Using Landsat ETM+ and OLI Data. <i>Remote Sensing</i> , 2018 , 10, 1069	5	14
38	Use of hourly Geostationary Operational Environmental Satellite (GOES) fire emissions in a Community Multiscale Air Quality (CMAQ) model for improving surface particulate matter predictions. <i>Journal of Geophysical Research</i> , 2011 , 116,		14
37	Precipitation and Minimum Temperature are Primary Climatic Controls of Alpine Grassland Autumn Phenology on the Qinghai-Tibet Plateau. <i>Remote Sensing</i> , 2020 , 12, 431	5	14
36	Mapping Crop Phenology in Near Real-Time Using Satellite Remote Sensing: Challenges and Opportunities. <i>Journal of Remote Sensing</i> , 2021 , 2021, 1-14		14
35	Widespread decline in winds delayed autumn foliar senescence over high latitudes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	14
34	How Does Scale Effect Influence Spring Vegetation Phenology Estimated from Satellite-Derived Vegetation Indexes?. <i>Remote Sensing</i> , 2019 , 11, 2137	5	13
33	The implementation of NEMS GFS Aerosol Component (NGAC) Version 2.0 for global multispecies forecasting at NOAA/NCEP [Part I]: Model descriptions. <i>Geoscientific Model Development</i> , 2018 , 11, 2315-2332	6.3	12
32	Characterizing Land Cover Impacts on the Responses of Land Surface Phenology to the Rainy Season in the Congo Basin. <i>Remote Sensing</i> , 2017 , 9, 461	5	11
31	Spatiotemporal characteristics of white mold and impacts on yield in soybean fields in South Dakota. <i>Geo-Spatial Information Science</i> , 2020 , 23, 182-193	3.5	9
30	Mapping Temperate Vegetation Climate Adaptation Variability Using Normalized Land Surface Phenology. <i>Climate</i> , 2016 , 4, 24	3.1	9
29	Investigating Smoke Aerosol Emission Coefficients Using MODIS Active Fire and Aerosol Products: A Case Study in the CONUS and Indonesia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 1413-1429	3.7	8

28	Biomass Burning in Africa: An Investigation of Fire Radiative Power Missed by MODIS Using the 375 m VIIRS Active Fire Product. <i>Remote Sensing</i> , 2020 , 12, 1561	5	8
27	Urbanization imprint on land surface phenology: The urban-rural gradient analysis for Chinese cities. <i>Global Change Biology</i> , 2021 , 27, 2895-2904	11.4	8
26	Estimating the Aboveground Biomass for Planted Forests Based on Stand Age and Environmental Variables. <i>Remote Sensing</i> , 2019 , 11, 2270	5	7
25	Crop Growth Condition Assessment at County Scale Based on Heat-Aligned Growth Stages. <i>Remote Sensing</i> , 2019 , 11, 2439	5	7
24	Fusing Geostationary Satellite Observations with Harmonized Landsat-8 and Sentinel-2 Time Series for Monitoring Field-Scale Land Surface Phenology. <i>Remote Sensing</i> , 2021 , 13, 4465	5	7
23	Ensemble PM2.5 Forecasting During the 2018 Camp Fire Event Using the HYSPLIT Transport and Dispersion Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032768	4.4	7
22	An evaluation of advanced baseline imager fire radiative power based wildfire emissions using carbon monoxide observed by the Tropospheric Monitoring Instrument across the conterminous United States. <i>Environmental Research Letters</i> , 2020 , 15, 094049	6.2	6
21	Satellite-observed decrease in the sensitivity of spring phenology to climate change under high nitrogen deposition. <i>Environmental Research Letters</i> , 2020 , 15, 094055	6.2	5
20	Detection of Fire Smoke Plumes Based on Aerosol Scattering Using VIIRS Data over Global Fire-Prone Regions. <i>Remote Sensing</i> , 2021 , 13, 196	5	5
19	Dominance of Wildfires Impact on Air Quality Exceedances During the 2020 Record-Breaking Wildfire Season in the United States. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094908	4.9	4
18	Effects of temperature variability and extremes on spring phenology across the contiguous United States from 1982 to 2016. <i>Scientific Reports</i> , 2020 , 10, 17952	4.9	4
17	Land cover composition, climate, and topography drive land surface phenology in a recently burned landscape: An application of machine learning in phenological modeling. <i>Agricultural and Forest Meteorology</i> , 2021 , 304-305, 108432	5.8	4
16	Eutrophication monitoring of lakes in Wuhan based on Sentinel-2 data. <i>GIScience and Remote Sensing</i> , 2021 , 58, 776-798	4.8	4
15	Evaluating a spatiotemporal shape-matching model for the generation of synthetic high spatiotemporal resolution time series of multiple satellite data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021 , 104, 102545	7.3	4
14	Quantifying Carbon Monoxide Emissions on the Scale of Large Wildfires. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	3
13	Land Surface Phenology: Climate Data Record and Real-Time Monitoring 2018 , 35-52		3
12	Mapping and Quantifying White Mold in Soybean across South Dakota Using Landsat Images. <i>Journal of Geographic Information System</i> , 2019 , 11, 331-346	0.4	2
11	Incorporating water availability into autumn phenological model improved China's terrestrial gross primary productivity (GPP) simulation. <i>Environmental Research Letters</i> , 2021 , 16, 094012	6.2	2

10	Hybrid phenology matching model for robust crop phenological retrieval. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021 , 181, 308-326	11.8	2
9	Mapping corn and soybean phenometrics at field scales over the United States Corn Belt by fusing time series of Landsat 8 and Sentinel-2 data with VIIRS data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022 , 186, 55-69	11.8	1
8	TRENDS in land surface phenology across the conterminous United States (1982-2016) analyzed by NEON domains. <i>Ecological Applications</i> , 2021 , 31, e02323	4.9	1
7	Exploration of global spatiotemporal changes of fall foliage coloration in deciduous forests and shrubs using the VIIRS land surface phenology product. <i>Science of Remote Sensing</i> , 2021 , 4, 100030	11.8	0
6	Drainage canal impacts on smoke aerosol emissions for Indonesian peatland and non-peatland fires. <i>Environmental Research Letters</i> , 2021 , 16, 095008	6.2	0
5	Increasing Interspecific Difference of Alpine Herb Phenology on the Eastern Qinghai-Tibet Plateau.. <i>Frontiers in Plant Science</i> , 2022 , 13, 844971	6.2	0
4	Pronounced increases in nitrogen emissions and deposition due to the historic 2020 wildfires in the western U.S.. <i>Science of the Total Environment</i> , 2022 , 156130	10.2	0
3	Characteristics of Greening along Altitudinal Gradients on the Qinghai-Tibet Plateau Based on Time-Series Landsat Images. <i>Remote Sensing</i> , 2022 , 14, 2408	5	0
2	Spatial Difference between Temperature and Snowfall Driven Spring Phenology of Alpine Grassland Land Surface Based on Process-Based Modeling on the Qinghai-Tibet Plateau. <i>Remote Sensing</i> , 2022 , 14, 1273	5	
1	Soybean EOS Spatiotemporal Characteristics and Their Climate Drivers in Global Major Regions. <i>Remote Sensing</i> , 2022 , 14, 1867	5	