

# Xiaoyang Zhang

## 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.

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	Quantifying Carbon Monoxide Emissions on the Scale of Large Wildfires. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	3
98	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> , <b>2022</b> , 186, 55-69	11.8	1
97	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> , <b>2022</b> , 14, 1273	5	
96	Increasing Interspecific Difference of Alpine Herb Phenology on the Eastern Qinghai-Tibet Plateau.. <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 844971	6.2	0
95	Soybean EOS Spatiotemporal Characteristics and Their Climate Drivers in Global Major Regions. <i>Remote Sensing</i> , <b>2022</b> , 14, 1867	5	
94	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> , <b>2022</b> , 156130	10.2	0
93	Characteristics of Greening along Altitudinal Gradients on the Qinghai-Tibet Plateau Based on Time-Series Landsat Images. <i>Remote Sensing</i> , <b>2022</b> , 14, 2408	5	0
92	Fusing Geostationary Satellite Observations with Harmonized Landsat-8 and Sentinel-2 Time Series for Monitoring Field-Scale Land Surface Phenology. <i>Remote Sensing</i> , <b>2021</b> , 13, 4465	5	7
91	Dominance of Wildfires Impact on Air Quality Exceedances During the 2020 Record-Breaking Wildfire Season in the United States. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094908	4.9	4
90	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> , <b>2021</b> , 4, 100030	11.8	0
89	Mapping Crop Phenology in Near Real-Time Using Satellite Remote Sensing: Challenges and Opportunities. <i>Journal of Remote Sensing</i> , <b>2021</b> , 2021, 1-14		14
88	Urbanization imprint on land surface phenology: The urban-rural gradient analysis for Chinese cities. <i>Global Change Biology</i> , <b>2021</b> , 27, 2895-2904	11.4	8
87	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> , <b>2021</b> , 118,	11.5	14
86	Trends in land surface phenology across the conterminous United States (1982-2016) analyzed by NEON domains. <i>Ecological Applications</i> , <b>2021</b> , 31, e02323	4.9	1
85	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> , <b>2021</b> , 304-305, 108432	5.8	4
84	Investigation of land surface phenology detections in shrublands using multiple scale satellite data. <i>Remote Sensing of Environment</i> , <b>2021</b> , 252, 112133	13.2	18
83	Detection of Fire Smoke Plumes Based on Aerosol Scattering Using VIIRS Data over Global Fire-Prone Regions. <i>Remote Sensing</i> , <b>2021</b> , 13, 196	5	5

82	Eutrophication monitoring of lakes in Wuhan based on Sentinel-2 data. <i>GIScience and Remote Sensing</i> , <b>2021</b> , 58, 776-798	4.8	4
81	Incorporating water availability into autumn phenological model improved China's terrestrial gross primary productivity (GPP) simulation. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 094012	6.2	2
80	Drainage canal impacts on smoke aerosol emissions for Indonesian peatland and non-peatland fires. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 095008	6.2	0
79	Hybrid phenology matching model for robust crop phenological retrieval. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2021</b> , 181, 308-326	11.8	2
78	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> , <b>2021</b> , 104, 102545	7.3	4
77	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> , <b>2020</b> , 12, 1561	5	8
76	Spatiotemporal characteristics of white mold and impacts on yield in soybean fields in South Dakota. <i>Geo-Spatial Information Science</i> , <b>2020</b> , 23, 182-193	3.5	9
75	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> , <b>2020</b> , 161, 37-51	11.8	40
74	Precipitation and Minimum Temperature are Primary Climatic Controls of Alpine Grassland Autumn Phenology on the Qinghai-Tibet Plateau. <i>Remote Sensing</i> , <b>2020</b> , 12, 431	5	14
73	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> , <b>2020</b> , 15, 094049	6.2	6
72	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> , <b>2020</b> , 237, 111600	13.2	19
71	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> , <b>2020</b> , 159, 281-295	11.8	19
70	Satellite-observed decrease in the sensitivity of spring phenology to climate change under high nitrogen deposition. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 094055	6.2	5
69	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> , <b>2020</b> , 125, e2020JD032768	4.4	7
68	Effects of temperature variability and extremes on spring phenology across the contiguous United States from 1982 to 2016. <i>Scientific Reports</i> , <b>2020</b> , 10, 17952	4.9	4
67	Remote sensing of the terrestrial carbon cycle: A review of advances over 50 years. <i>Remote Sensing of Environment</i> , <b>2019</b> , 233, 111383	13.2	116
66	How Does Scale Effect Influence Spring Vegetation Phenology Estimated from Satellite-Derived Vegetation Indexes?. <i>Remote Sensing</i> , <b>2019</b> , 11, 2137	5	13
65	Estimating the Aboveground Biomass for Planted Forests Based on Stand Age and Environmental Variables. <i>Remote Sensing</i> , <b>2019</b> , 11, 2270	5	7

64	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> , <b>2019</b> , 149, 77-90	11.8	20
63	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> , <b>2019</b> , 124, 1413-1429	3.7	8
62	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> , <b>2019</b> , 211, 274-287	5.3	38
61	Satellite detection of cumulative and lagged effects of drought on autumn leaf senescence over the Northern Hemisphere. <i>Global Change Biology</i> , <b>2019</b> , 25, 2174-2188	11.4	49
60	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> , <b>2019</b> , 79, 71-83	7.3	21
59	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> , <b>2019</b> , 226, 74-92	13.2	31
58	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> , <b>2019</b> , 14, 044020	6.2	25
57	Crop Growth Condition Assessment at County Scale Based on Heat-Aligned Growth Stages. <i>Remote Sensing</i> , <b>2019</b> , 11, 2439	5	7
56	Mapping and Quantifying White Mold in Soybean across South Dakota Using Landsat Images. <i>Journal of Geographic Information System</i> , <b>2019</b> , 11, 331-346	0.4	2
55	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> , <b>2018</b> , 123, 722-739	3.7	15
54	Comparison of Fire Radiative Power Estimates From VIIRS and MODIS Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 4545-4563	4.4	32
53	Burned Area Comparisons Between Prescribed Burning Permits in Southeastern United States and Two Satellite-Derived Products. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 4746-4757	4.4	16
52	Evaluation of land surface phenology from VIIRS data using time series of PhenoCam imagery. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 256-257, 137-149	5.8	85
51	Scaling up spring phenology derived from remote sensing images. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 256-257, 207-219	5.8	16
50	Generation and evaluation of the VIIRS land surface phenology product. <i>Remote Sensing of Environment</i> , <b>2018</b> , 216, 212-229	13.2	62
49	An Exploration of Terrain Effects on Land Surface Phenology across the Qinghai-Tibet Plateau Using Landsat ETM+ and OLI Data. <i>Remote Sensing</i> , <b>2018</b> , 10, 1069	5	14
48	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> , <b>2018</b> , 11, 2315-2332	6.3	12
47	Land Surface Phenology: Climate Data Record and Real-Time Monitoring <b>2018</b> , 35-52		3

46	Real-Time Monitoring of Crop Phenology in the Midwestern United States Using VIIRS Observations. <i>Remote Sensing</i> , <b>2018</b> , 10, 1540	5	23
45	Exploration of scaling effects on coarse resolution land surface phenology. <i>Remote Sensing of Environment</i> , <b>2017</b> , 190, 318-330	13.2	107
44	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> , <b>2017</b> , 237-238, 311-325	5.8	96
43	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> , <b>2017</b> , 77, 323-336	5.8	60
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> , <b>2017</b> , 12, 024013	6.2	15
41	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> , <b>2017</b> , 242, 33-46	5.8	35
40	Comparisons of global land surface seasonality and phenology derived from AVHRR, MODIS, and VIIRS data. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 1506-1525	3.7	33
39	Real-time and short-term predictions of spring phenology in North America from VIIRS data. <i>Remote Sensing of Environment</i> , <b>2017</b> , 194, 89-99	13.2	20
38	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> , <b>2017</b> , 59, 104-117	7.3	42
37	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> , <b>2017</b> , 201, 256-274	13.2	62
36	Impacts of wildfires on interannual trends in land surface phenology: an investigation of the Hayman Fire. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 054008	6.2	15
35	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> , <b>2017</b> , 132, 185-198	11.8	39
34	Toward mapping crop progress at field scales through fusion of Landsat and MODIS imagery. <i>Remote Sensing of Environment</i> , <b>2017</b> , 188, 9-25	13.2	257
33	Characterizing Land Cover Impacts on the Responses of Land Surface Phenology to the Rainy Season in the Congo Basin. <i>Remote Sensing</i> , <b>2017</b> , 9, 461	5	11
32	Impacts of Thermal Time on Land Surface Phenology in Urban Areas. <i>Remote Sensing</i> , <b>2017</b> , 9, 499	5	16
31	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> , <b>2016</b> , 54, 4867-4881	8.1	30
30	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> , <b>2016</b> , 11, e0158173	3.7	24
29	Mapping Temperate Vegetation Climate Adaptation Variability Using Normalized Land Surface Phenology. <i>Climate</i> , <b>2016</b> , 4, 24	3.1	9

28	Monitoring interannual variation in global crop yield using long-term AVHRR and MODIS observations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2016</b> , 114, 191-205	11.8	60
27	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> , <b>2016</b> , 60, 1563-1575	3.7	18
26	Reconstruction of a complete global time series of daily vegetation index trajectory from long-term AVHRR data. <i>Remote Sensing of Environment</i> , <b>2015</b> , 156, 457-472	13.2	105
25	Reconstruction of Daily 30 m Data from HJ CCD, GF-1 WFV, Landsat, and MODIS Data for Crop Monitoring. <i>Remote Sensing</i> , <b>2015</b> , 7, 16293-16314	5	27
24	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2014</b> , 52, 7513-7526	8.1	32
23	Interannual variations and trends in global land surface phenology derived from enhanced vegetation index during 1982-2010. <i>International Journal of Biometeorology</i> , <b>2014</b> , 58, 547-64	3.7	68
22	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> , <b>2014</b> , 119, 1147-1162	3.7	33
21	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> , <b>2014</b> , 9, 075002	6.2	42
20	Daily MODIS 500 m reflectance anisotropy direct broadcast (DB) products for monitoring vegetation phenology dynamics. <i>International Journal of Remote Sensing</i> , <b>2013</b> , 34, 5997-6016	3.1	37
19	Prototype for monitoring and forecasting fall foliage coloration in real time from satellite data. <i>Agricultural and Forest Meteorology</i> , <b>2012</b> , 158-159, 21-29	5.8	25
18	Near-real-time global biomass burning emissions product from geostationary satellite constellation. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		61
17	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> , <b>2011</b> , 116,		14
16	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2011</b> , 49, 4469-4482	8.1	26
15	Monitoring fall foliage coloration dynamics using time-series satellite data. <i>Remote Sensing of Environment</i> , <b>2011</b> , 115, 382-391	13.2	77
14	Drought-induced vegetation stress in southwestern North America. <i>Environmental Research Letters</i> , <b>2010</b> , 5, 024008	6.2	59
13	Biomass burning impact on PM <sub>2.5</sub> over the southeastern US during 2007: integrating chemically speciated FRM filter measurements, MODIS fire counts and PMF analysis. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 6839-6853	6.8	180
12	Land surface phenology from MODIS: Characterization of the Collection 5 global land cover dynamics product. <i>Remote Sensing of Environment</i> , <b>2010</b> , 114, 1805-1816	13.2	328
11	Sensitivity of vegetation phenology detection to the temporal resolution of satellite data. <i>International Journal of Remote Sensing</i> , <b>2009</b> , 30, 2061-2074	3.1	116

10	Near real time monitoring of biomass burning particulate emissions (PM2.5) across contiguous United States using multiple satellite instruments. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 6959-6972	5.3	58
9	Temporal and spatial variability in biomass burned areas across the USA derived from the GOES fire product. <i>Remote Sensing of Environment</i> , <b>2008</b> , 112, 2886-2897	13.2	50
8	Diverse responses of vegetation phenology to a warming climate. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	207
7	Estimating emissions from fires in North America for air quality modeling. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 3419-3432	5.3	301
6	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> , <b>2006</b> , 111,		325
5	Monitoring the response of vegetation phenology to precipitation in Africa by coupling MODIS and TRMM instruments. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		159
4	Climate controls on vegetation phenological patterns in northern mid- and high latitudes inferred from MODIS data. <i>Global Change Biology</i> , <b>2004</b> , 10, 1133-1145	11.4	357
3	The footprint of urban climates on vegetation phenology. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a.	4.9	176
2	Monitoring vegetation phenology using MODIS. <i>Remote Sensing of Environment</i> , <b>2003</b> , 84, 471-475	13.2	1575
1	First operational BRDF, albedo nadir reflectance products from MODIS. <i>Remote Sensing of Environment</i> , <b>2002</b> , 83, 135-148	13.2	1683