

Xi Yang

List of Publications by Citations

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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.

50
papers

2,240
citations

23
h-index

47
g-index

56
ext. papers

2,923
ext. citations

7.7
avg, IF

5.32
L-index

#	Paper	IF	Citations
50	Solar-induced chlorophyll fluorescence that correlates with canopy photosynthesis on diurnal and seasonal scales in a temperate deciduous forest. <i>Geophysical Research Letters</i> , 2015 , 42, 2977-2987	4.9	303
49	Emerging opportunities and challenges in phenology: a review. <i>Ecosphere</i> , 2016 , 7, e01436	3.1	144
48	Model-based analysis of the relationship between sun-induced chlorophyll fluorescence and gross primary production for remote sensing applications. <i>Remote Sensing of Environment</i> , 2016 , 187, 145-155	13.2	139
47	Application of DMSP/OLS Nighttime Light Images: A Meta-Analysis and a Systematic Literature Review. <i>Remote Sensing</i> , 2014 , 6, 6844-6866	5	139
46	Sun-induced chlorophyll fluorescence is more strongly related to absorbed light than to photosynthesis at half-hourly resolution in a rice paddy. <i>Remote Sensing of Environment</i> , 2018 , 216, 658-673	13.2	106
45	Tree height explains mortality risk during an intense drought. <i>Nature Communications</i> , 2019 , 10, 4385	17.4	99
44	Beyond leaf color: Comparing camera-based phenological metrics with leaf biochemical, biophysical, and spectral properties throughout the growing season of a temperate deciduous forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 181-191	3.7	95
43	Sun-Induced Chlorophyll Fluorescence, Photosynthesis, and Light Use Efficiency of a Soybean Field from Seasonally Continuous Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 610-623	3.7	94
42	Chlorophyll fluorescence tracks seasonal variations of photosynthesis from leaf to canopy in a temperate forest. <i>Global Change Biology</i> , 2017 , 23, 2874-2886	11.4	88
41	Simulations of chlorophyll fluorescence incorporated into the Community Land Model version 4. <i>Global Change Biology</i> , 2015 , 21, 3469-77	11.4	86
40	Seasonal variability of multiple leaf traits captured by leaf spectroscopy at two temperate deciduous forests. <i>Remote Sensing of Environment</i> , 2016 , 179, 1-12	13.2	84
39	Earlier-season vegetation has greater temperature sensitivity of spring phenology in northern hemisphere. <i>PLoS ONE</i> , 2014 , 9, e88178	3.7	72
38	Convergence in relationships between leaf traits, spectra and age across diverse canopy environments and two contrasting tropical forests. <i>New Phytologist</i> , 2017 , 214, 1033-1048	9.8	70
37	On the relationship between sub-daily instantaneous and daily total gross primary production: Implications for interpreting satellite-based SIF retrievals. <i>Remote Sensing of Environment</i> , 2018 , 205, 276-289	13.2	68
36	Regional-scale phenology modeling based on meteorological records and remote sensing observations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		67
35	Evaluating the utility of solar-induced chlorophyll fluorescence for drought monitoring by comparison with NDVI derived from wheat canopy. <i>Science of the Total Environment</i> , 2018 , 625, 1208-1217	10.2	56
34	Reduction of structural impacts and distinction of photosynthetic pathways in a global estimation of GPP from space-borne solar-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2020 , 240, 111722	13.2	47

33	FluoSpec 2-An Automated Field Spectroscopy System to Monitor Canopy Solar-Induced Fluorescence. <i>Sensors</i> , 2018 , 18,	3.8	44
32	Seasonal variations of leaf and canopy properties tracked by ground-based NDVI imagery in a temperate forest. <i>Scientific Reports</i> , 2017 , 7, 1267	4.9	43
31	Solar-induced chlorophyll fluorescence and its link to canopy photosynthesis in maize from continuous ground measurements. <i>Remote Sensing of Environment</i> , 2020 , 236, 111420	13.2	41
30	On the Covariation of Chlorophyll Fluorescence and Photosynthesis Across Scales. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL091098	4.9	40
29	Radiance-based NIRv as a proxy for GPP of corn and soybean. <i>Environmental Research Letters</i> , 2020 , 15, 034009	6.2	36
28	Solar-induced chlorophyll fluorescence and short-term photosynthetic response to drought. <i>Ecological Applications</i> , 2020 , 30, e02101	4.9	26
27	A Simple Method for Detecting Phenological Change From Time Series of Vegetation Index. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 3436-3449	8.1	21
26	Evaluating Remotely Sensed Phenological Metrics in a Dynamic Ecosystem Model. <i>Remote Sensing</i> , 2014 , 6, 4660-4686	5	21
25	Satellite footprint data from OCO-2 and TROPOMI reveal significant spatio-temporal and inter-vegetation type variabilities of solar-induced fluorescence yield in the U.S. Midwest. <i>Remote Sensing of Environment</i> , 2020 , 241, 111728	13.2	16
24	Relationship between leaf physiologic traits and canopy color indices during the leaf expansion period in an oak forest. <i>Ecosphere</i> , 2015 , 6, art259	3.1	16
23	Monitoring tree-crown scale autumn leaf phenology in a temperate forest with an integration of PlanetScope and drone remote sensing observations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021 , 171, 36-48	11.8	16
22	Sustained Nonphotochemical Quenching Shapes the Seasonal Pattern of Solar-Induced Fluorescence at a High-Elevation Evergreen Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 2005-2020	3.7	15
21	Observing Severe Drought Influences on Ozone Air Pollution in California. <i>Environmental Science & Technology</i> , 2019 , 53, 4695-4706	10.3	14
20	Relationship of root zone soil moisture with solar-induced chlorophyll fluorescence and vegetation indices in winter wheat: A comparative study based on continuous ground-measurements. <i>Ecological Indicators</i> , 2018 , 90, 9-17	5.8	14
19	Reply to "Height-related changes in forest composition explain increasing tree mortality with height during an extreme drought". <i>Nature Communications</i> , 2020 , 11, 3401	17.4	13
18	Potential of hotspot solar-induced chlorophyll fluorescence for better tracking terrestrial photosynthesis. <i>Global Change Biology</i> , 2021 , 27, 2144-2158	11.4	13
17	Rapid deforestation of a coastal landscape driven by sea-level rise and extreme events. <i>Ecological Applications</i> , 2021 , 31, e02339	4.9	12
16	A model for estimating transpiration from remotely sensed solar-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2021 , 252, 112134	13.2	11

15	Quantifying high-temperature stress on soybean canopy photosynthesis: The unique role of sun-induced chlorophyll fluorescence. <i>Global Change Biology</i> , 2021 , 27, 2403-2415	11.4	9
14	Mapping Temperate Forest Phenology Using Tower, UAV, and Ground-Based Sensors. <i>Drones</i> , 2020 , 4, 56	5.4	7
13	Photosynthetic and Respiratory Acclimation of Understory Shrubs in Response to in situ Experimental Warming of a Wet Tropical Forest. <i>Frontiers in Forests and Global Change</i> , 2020 , 3,	3.7	7
12	Gap models across micro- to mega-scales of time and space: examples of Tansley's ecosystem concept. <i>Forest Ecosystems</i> , 2020 , 7,	3.8	6
11	Climate Change Driving Widespread Loss of Coastal Forested Wetlands Throughout the North American Coastal Plain. <i>Ecosystems</i> , 1	3.9	6
10	Ecosystem Productivity and Water Stress in Tropical East Africa: A Case Study of the 2010-2011 Drought. <i>Land</i> , 2019 , 8, 52	3.5	5
9	Varying Contributions of Drivers to the Relationship Between Canopy Photosynthesis and Far-Red Sun-Induced Fluorescence for Two Maize Sites at Different Temporal Scales. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005051	3.7	5
8	Linking soil respiration and water table depth in tropical peatlands with remotely sensed changes in water storage from the gravity recovery and climate experiment. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2019 , 24, 575-590	3.9	5
7	Combining near-infrared radiance of vegetation and fluorescence spectroscopy to detect effects of abiotic changes and stresses. <i>Remote Sensing of Environment</i> , 2022 , 270, 112856	13.2	5
6	High Heterogeneity in Canopy Temperature Among Co-occurring Tree Species in a Temperate Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2020JG005892	3.7	4
5	A physiological signal derived from sun-induced chlorophyll fluorescence quantifies crop physiological response to environmental stresses in the U.S. Corn Belt. <i>Environmental Research Letters</i> ,	6.2	3
4	TLSLeAF: automatic leaf angle estimates from single-scan terrestrial laser scanning. <i>New Phytologist</i> , 2021 , 232, 1876-1892	9.8	3
3	Recovery: Fast and Slow Vegetation Response During the 2012-2016 California Drought. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG005976	3.7	2
2	Two for one: Partitioning CO ₂ fluxes and understanding the relationship between solar-induced chlorophyll fluorescence and gross primary productivity using machine learning. <i>Agricultural and Forest Meteorology</i> , 2022 , 321, 108980	5.8	2
1	Sustained Non-Photochemical Quenching Shapes the Seasonal Pattern of Solar-Induced Fluorescence at a High-Elevation Evergreen Forest		1