Xi Yang

List of Publications by Year in Descending Order

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	Combining near-infrared radiance of vegetation and fluorescence spectroscopy to detect effects of abiotic changes and stresses. *Remote Sensing of Environment*, **2022**, 270, 112856	13.2	5
49	Two for one: Partitioning CO2 fluxes and understanding the relationship between solar-induced chlorophyll fluorescence and gross primary productivity using machine learning. *Agricultural and Forest Meteorology*, **2022**, 321, 108980	5.8	2
48	Quantifying high-temperature stress on soybean canopy photosynthesis: The unique role of sun-induced chlorophyll fluorescence. *Global Change Biology*, **2021**, 27, 2403-2415	11.4	9
47	Rapid deforestation of a coastal landscape driven by sea-level rise and extreme events. *Ecological Applications*, **2021**, 31, e02339	4.9	12
46	Recovery: Fast and Slow Vegetation Response During the 2012–2016 California Drought. *Journal of Geophysical Research G: Biogeosciences*, **2021**, 126, e2020JG005976	3.7	2
45	TLSLeAF: automatic leaf angle estimates from single-scan terrestrial laser scanning. *New Phytologist*, **2021**, 232, 1876-1892	9.8	3
44	A model for estimating transpiration from remotely sensed solar-induced chlorophyll fluorescence. *Remote Sensing of Environment*, **2021**, 252, 112134	13.2	11
43	Monitoring tree-crown scale autumn leaf phenology in a temperate forest with an integration of PlanetScope and drone remote sensing observations. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2021**, 171, 36-48	11.8	16
42	Potential of hotspot solar-induced chlorophyll fluorescence for better tracking terrestrial photosynthesis. *Global Change Biology*, **2021**, 27, 2144-2158	11.4	13
41	High Heterogeneity in Canopy Temperature Among Co-occurring Tree Species in a Temperate Forest. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2020JG005892	3.7	4
40	Mapping Temperate Forest Phenology Using Tower, UAV, and Ground-Based Sensors. *Drones*, **2020**, 4, 56	5.4	7
39	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. *Remote Sensing of Environment*, **2020**, 241, 111728	13.2	16
38	Reply to "Height-related changes in forest composition explain increasing tree mortality with height during an extreme drought". *Nature Communications*, **2020**, 11, 3401	17.4	13
37	Radiance-based NIRv as a proxy for GPP of corn and soybean. *Environmental Research Letters*, **2020**, 15, 034009	6.2	36
36	Solar-induced chlorophyll fluorescence and short-term photosynthetic response to drought. *Ecological Applications*, **2020**, 30, e02101	4.9	26
35	Reduction of structural impacts and distinction of photosynthetic pathways in a global estimation of GPP from space-borne solar-induced chlorophyll fluorescence. *Remote Sensing of Environment*, **2020**, 240, 111722	13.2	47
34	Varying Contributions of Drivers to the Relationship Between Canopy Photosynthesis and Far-Red Sun-Induced Fluorescence for Two Maize Sites at Different Temporal Scales. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2019JG005051	3.7	5

33	Gap models across micro- to mega-scales of time and space: examples of Tansley's ecosystem concept. *Forest Ecosystems*, **2020**, 7,	3.8	6
32	Solar-induced chlorophyll fluorescence and its link to canopy photosynthesis in maize from continuous ground measurements. *Remote Sensing of Environment*, **2020**, 236, 111420	13.2	41
31	Photosynthetic and Respiratory Acclimation of Understory Shrubs in Response to in situ Experimental Warming of a Wet Tropical Forest. *Frontiers in Forests and Global Change*, **2020**, 3,	3.7	7
30	On the Covariation of Chlorophyll Fluorescence and Photosynthesis Across Scales. *Geophysical Research Letters*, **2020**, 47, e2020GL091098	4.9	40
29	Tree height explains mortality risk during an intense drought. *Nature Communications*, **2019**, 10, 4385	17.4	99
28	Ecosystem Productivity and Water Stress in Tropical East Africa: A Case Study of the 2010–2011 Drought. *Land*, **2019**, 8, 52	3.5	5
27	Observing Severe Drought Influences on Ozone Air Pollution in California. *Environmental Science & Technology*, **2019**, 53, 4695-4706	10.3	14
26	Linking soil respiration and water table depth in tropical peatlands with remotely sensed changes in water storage from the gravity recovery and climate experiment. *Mitigation and Adaptation Strategies for Global Change*, **2019**, 24, 575-590	3.9	5
25	Sustained Nonphotochemical Quenching Shapes the Seasonal Pattern of Solar-Induced Fluorescence at a High-Elevation Evergreen Forest. *Journal of Geophysical Research G: Biogeosciences*, **2019**, 124, 2005-2020	3.7	15
24	Sun-Induced Chlorophyll Fluorescence, Photosynthesis, and Light Use Efficiency of a Soybean Field from Seasonally Continuous Measurements. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 610-623	3.7	94
23	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. *Ecological Indicators*, **2018**, 90, 9-17	5.8	14
22	Evaluating the utility of solar-induced chlorophyll fluorescence for drought monitoring by comparison with NDVI derived from wheat canopy. *Science of the Total Environment*, **2018**, 625, 1208-1217	10.2	56
21	Sun-induced chlorophyll fluorescence is more strongly related to absorbed light than to photosynthesis at half-hourly resolution in a rice paddy. *Remote Sensing of Environment*, **2018**, 216, 658-673	13.2	106
20	FluoSpec 2-An Automated Field Spectroscopy System to Monitor Canopy Solar-Induced Fluorescence. *Sensors*, **2018**, 18,	3.8	44
19	On the relationship between sub-daily instantaneous and daily total gross primary production: Implications for interpreting satellite-based SIF retrievals. *Remote Sensing of Environment*, **2018**, 205, 276-289	13.2	68
18	Chlorophyll fluorescence tracks seasonal variations of photosynthesis from leaf to canopy in a temperate forest. *Global Change Biology*, **2017**, 23, 2874-2886	11.4	88
17	Seasonal variations of leaf and canopy properties tracked by ground-based NDVI imagery in a temperate forest. *Scientific Reports*, **2017**, 7, 1267	4.9	43
16	Convergence in relationships between leaf traits, spectra and age across diverse canopy environments and two contrasting tropical forests. *New Phytologist*, **2017**, 214, 1033-1048	9.8	70

15	Model-based analysis of the relationship between sun-induced chlorophyll fluorescence and gross primary production for remote sensing applications. *Remote Sensing of Environment*, **2016**, 187, 145-155	13.2	139
14	A Simple Method for Detecting Phenological Change From Time Series of Vegetation Index. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 3436-3449	8.1	21
13	Seasonal variability of multiple leaf traits captured by leaf spectroscopy at two temperate deciduous forests. *Remote Sensing of Environment*, **2016**, 179, 1-12	13.2	84
12	Emerging opportunities and challenges in phenology: a review. *Ecosphere*, **2016**, 7, e01436	3.1	144
11	Solar-induced chlorophyll fluorescence that correlates with canopy photosynthesis on diurnal and seasonal scales in a temperate deciduous forest. *Geophysical Research Letters*, **2015**, 42, 2977-2987	4.9	303
10	Relationship between leaf physiologic traits and canopy color indices during the leaf expansion period in an oak forest. *Ecosphere*, **2015**, 6, art259	3.1	16
9	Simulations of chlorophyll fluorescence incorporated into the Community Land Model version 4. *Global Change Biology*, **2015**, 21, 3469-77	11.4	86
8	Evaluating Remotely Sensed Phenological Metrics in a Dynamic Ecosystem Model. *Remote Sensing*, **2014**, 6, 4660-4686	5	21
7	Earlier-season vegetation has greater temperature sensitivity of spring phenology in northern hemisphere. *PLoS ONE*, **2014**, 9, e88178	3.7	72
6	Application of DMSP/OLS Nighttime Light Images: A Meta-Analysis and a Systematic Literature Review. *Remote Sensing*, **2014**, 6, 6844-6866	5	139
5	Beyond leaf color: Comparing camera-based phenological metrics with leaf biochemical, biophysical, and spectral properties throughout the growing season of a temperate deciduous forest. *Journal of Geophysical Research G: Biogeosciences*, **2014**, 119, 181-191	3.7	95
4	Regional-scale phenology modeling based on meteorological records and remote sensing observations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		67
3	A physiological signal derived from sun-induced chlorophyll fluorescence quantifies crop physiological response to environmental stresses in the U.S. Corn Belt. *Environmental Research Letters*,	6.2	3
2	Climate Change Driving Widespread Loss of Coastal Forested Wetlands Throughout the North American Coastal Plain. *Ecosystems*,1	3.9	6
1	Sustained Non-Photochemical Quenching Shapes the Seasonal Pattern of Solar-Induced Fluorescence at a High-Elevation Evergreen Forest		1