

Yongguang Zhang

List of Publications by Year in descending order

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94
papers

6,878
citations

66234

42
h-index

60497

81
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105
all docs

105
docs citations

105
times ranked

5400
citing authors

#	ARTICLE	IF	CITATIONS
1	NIRVP: A robust structural proxy for sun-induced chlorophyll fluorescence and photosynthesis across scales. <i>Remote Sensing of Environment</i> , 2022, 268, 112763.	4.6	77
2	Satellite evidence for China's leading role in restoring vegetation productivity over global karst ecosystems. <i>Forest Ecology and Management</i> , 2022, 507, 120000.	1.4	44
3	Resolving temperature limitation on spring productivity in an evergreen conifer forest using a model-data fusion framework. <i>Biogeosciences</i> , 2022, 19, 541-558.	1.3	6
4	Modeling solar-induced fluorescence of forest with heterogeneous distribution of damaged foliage by extending the stochastic radiative transfer theory. <i>Remote Sensing of Environment</i> , 2022, 271, 112892.	4.6	2
5	Influences of fractional vegetation cover on the spatial variability of canopy SIF from unmanned aerial vehicle observations. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 107, 102712.	1.4	2
6	Temporal resolution of vegetation indices and solar-induced chlorophyll fluorescence data affects the accuracy of vegetation phenology estimation: A study using in-situ measurements. <i>Ecological Indicators</i> , 2022, 136, 108673.	2.6	5
7	Adjusting solar-induced fluorescence to nadir-viewing provides a better proxy for GPP. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 186, 157-169.	4.9	14
8	An Overview of the Applications of Earth Observation Satellite Data: Impacts and Future Trends. <i>Remote Sensing</i> , 2022, 14, 1863.	1.8	61
9	Seasonal Variations in Leaf Maximum Photosynthetic Capacity and Its Dependence on Climate Factors Across Global FLUXNET Sites. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	4
10	Global assessment of partitioning transpiration from evapotranspiration based on satellite solar-induced chlorophyll fluorescence data. <i>Journal of Hydrology</i> , 2022, 612, 128044.	2.3	13
11	Physiological dynamics dominate the response of canopy far-red solar-induced fluorescence to herbicide treatment. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109063.	1.9	10
12	Sun-induced chlorophyll fluorescence is more strongly related to photosynthesis with hemispherical than nadir measurements: Evidence from field observations and model simulations. <i>Remote Sensing of Environment</i> , 2022, 279, 113118.	4.6	4
13	Simulation of solar-induced chlorophyll fluorescence in a heterogeneous forest using 3-D radiative transfer modelling and airborne LiDAR. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 191, 1-17.	4.9	7
14	Advances in hyperspectral remote sensing of vegetation traits and functions. <i>Remote Sensing of Environment</i> , 2021, 252, 112121.	4.6	44
15	A model for estimating transpiration from remotely sensed solar-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2021, 252, 112134.	4.6	39
16	Tracking the seasonal and inter-annual variations of global gross primary production during last four decades using satellite near-infrared reflectance data. <i>Science of the Total Environment</i> , 2021, 755, 142569.	3.9	125
17	Photoperiod decelerates the advance of spring phenology of six deciduous tree species under climate warming. <i>Global Change Biology</i> , 2021, 27, 2914-2927.	4.2	48
18	ChinaSpec: A Network for Long-Term Ground-Based Measurements of Solar-Induced Fluorescence in China. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006042.	1.3	22

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19	Potential of Sun-induced Chlorophyll Fluorescence for Indicating Mangrove Canopy Photosynthesis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006159.	1.3	13
20	Intermediate Aerosol Loading Enhances Photosynthetic Activity of Croplands. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091893.	1.5	19
21	Ground-based Multiangle Solar-induced Chlorophyll Fluorescence Observation and Angular Normalization for Assessing Crop Productivity. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006082.	1.3	4
22	Satellite-based survey of extreme methane emissions in the Permian basin. <i>Science Advances</i> , 2021, 7, .	4.7	66
23	Evaluation of GPP over four forest plots using RAMI and UAV measurements. <i>International Journal of Digital Earth</i> , 2021, 14, 1433-1451.	1.6	5
24	Constraining global terrestrial gross primary productivity in a global carbon assimilation system with OCO-2 chlorophyll fluorescence data. <i>Agricultural and Forest Meteorology</i> , 2021, 304-305, 108424.	1.9	10
25	Chlorophyll a fluorescence illuminates a path connecting plant molecular biology to Earth-system science. <i>Nature Plants</i> , 2021, 7, 998-1009.	4.7	88
26	Sensitivity of Estimated Total Canopy SIF Emission to Remotely Sensed LAI and BRDF Products. <i>Journal of Remote Sensing</i> , 2021, 2021, .	3.2	20
27	Exploring Seasonal and Circadian Rhythms in Structural Traits of Field Maize from LiDAR Time Series. <i>Plant Phenomics</i> , 2021, 2021, 9895241.	2.5	10
28	Response to Comments on "Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis". <i>Science</i> , 2021, 373, eabg7484.	6.0	15
29	Progress and Trends in the Application of Google Earth and Google Earth Engine. <i>Remote Sensing</i> , 2021, 13, 3778.	1.8	71
30	Resistance and resilience of grasslands to drought detected by SIF in inner Mongolia, China. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108567.	1.9	15
31	Beyond APAR and NPQ: Factors Coupling and Decoupling SIF and GPP Across Scales. , 2021, , .		0
32	The TROPOSIF global sun-induced fluorescence dataset from the Sentinel-5P TROPOMI mission. <i>Earth System Science Data</i> , 2021, 13, 5423-5440.	3.7	54
33	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.	4.6	81
34	Warmer spring alleviated the impacts of 2018 European summer heatwave and drought on vegetation photosynthesis. <i>Agricultural and Forest Meteorology</i> , 2020, 295, 108195.	1.9	48
35	Wide discrepancies in the magnitude and direction of modeled solar-induced chlorophyll fluorescence in response to light conditions. <i>Biogeosciences</i> , 2020, 17, 3733-3755.	1.3	24
36	Tracking Seasonal and Interannual Variability in Photosynthetic Downregulation in Response to Water Stress at a Temperate Deciduous Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2018JG005002.	1.3	17

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37	Assessing bi-directional effects on the diurnal cycle of measured solar-induced chlorophyll fluorescence in crop canopies. <i>Agricultural and Forest Meteorology</i> , 2020, 295, 108147.	1.9	43
38	Evaluating Multi-Angle Photochemical Reflectance Index and Solar-Induced Fluorescence for the Estimation of Gross Primary Production in Maize. <i>Remote Sensing</i> , 2020, 12, 2812.	1.8	6
39	Seasonal variations in the relationship between sun-induced chlorophyll fluorescence and photosynthetic capacity from the leaf to canopy level in a rice crop. <i>Journal of Experimental Botany</i> , 2020, 71, 7179-7197.	2.4	18
40	Correcting Clear-Sky Bias in Gross Primary Production Modeling From Satellite Solar-Induced Chlorophyll Fluorescence Data. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005822.	1.3	15
41	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020, 370, 1295-1300.	6.0	317
42	Satellite-Observed Variations and Trends in Carbon Monoxide over Asia and Their Sensitivities to Biomass Burning. <i>Remote Sensing</i> , 2020, 12, 830.	1.8	26
43	Canopy structure explains the relationship between photosynthesis and sun-induced chlorophyll fluorescence in crops. <i>Remote Sensing of Environment</i> , 2020, 241, 111733.	4.6	183
44	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.	4.6	83
45	The potential of satellite FPAR product for GPP estimation: An indirect evaluation using solar-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2020, 240, 111686.	4.6	42
46	The Ability of Sun-Induced Chlorophyll Fluorescence From OCO-2 and MODIS-EVI to Monitor Spatial Variations of Soybean and Maize Yields in the Midwestern USA. <i>Remote Sensing</i> , 2020, 12, 1111.	1.8	17
47	Variations and drivers of methane fluxes from a rice-wheat rotation agroecosystem in eastern China at seasonal and diurnal scales. <i>Science of the Total Environment</i> , 2019, 690, 973-990.	3.9	29
48	Response of Ecosystem Water Use Efficiency to Drought over China during 1982–2015: Spatiotemporal Variability and Resilience. <i>Forests</i> , 2019, 10, 598.	0.9	42
49	Separating the effects of climate change and human activity on water use efficiency over the Beijing-Tianjin Sand Source Region of China. <i>Science of the Total Environment</i> , 2019, 690, 584-595.	3.9	43
50	SIFSpec: Measuring Solar-Induced Chlorophyll Fluorescence Observations for Remote Sensing of Photosynthesis. <i>Sensors</i> , 2019, 19, 3009.	2.1	44
51	From Canopy-Leaving to Total Canopy Far-Red Fluorescence Emission for Remote Sensing of Photosynthesis: First Results From TROPOMI. <i>Geophysical Research Letters</i> , 2019, 46, 12030-12040.	1.5	59
52	Simulating emission and scattering of solar-induced chlorophyll fluorescence at far-red band in global vegetation with different canopy structures. <i>Remote Sensing of Environment</i> , 2019, 233, 111373.	4.6	36
53	Modeling canopy conductance and transpiration from solar-induced chlorophyll fluorescence. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 189-201.	1.9	60
54	Urban-rural gradients reveal joint control of elevated CO ₂ and temperature on extended photosynthetic seasons. <i>Nature Ecology and Evolution</i> , 2019, 3, 1076-1085.	3.4	98

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55	Widespread Decline in Vegetation Photosynthesis in Southeast Asia Due to the Prolonged Drought During the 2015/2016 El Niño. <i>Remote Sensing</i> , 2019, 11, 910.	1.8	23
56	Integrating satellite and climate data to predict wheat yield in Australia using machine learning approaches. <i>Agricultural and Forest Meteorology</i> , 2019, 274, 144-159.	1.9	319
57	Satellite-observed solar-induced chlorophyll fluorescence reveals higher sensitivity of alpine ecosystems to snow cover on the Tibetan Plateau. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 126-134.	1.9	29
58	Estimating crop primary productivity with Sentinel-2 and Landsat 8 using machine learning methods trained with radiative transfer simulations. <i>Remote Sensing of Environment</i> , 2019, 225, 441-457.	4.6	112
59	Comparison of Bi-Hemispherical and Hemispherical-Conical Configurations for In Situ Measurements of Solar-Induced Chlorophyll Fluorescence. <i>Remote Sensing</i> , 2019, 11, 2642.	1.8	16
60	The Effects of Sun-Viewer Geometry on Sun-Induced Fluorescence and Its Relationship with Gross Primary Production. , 2019, , .		4
61	Satellite Chlorophyll Fluorescence and Soil Moisture Observations Lead to Advances in the Predictive Understanding of Global Terrestrial Coupled Carbon-Water Cycles. <i>Global Biogeochemical Cycles</i> , 2018, 32, 360-375.	1.9	42
62	Spatio-Temporal Convergence of Maximum Daily Light-Use Efficiency Based on Radiation Absorption by Canopy Chlorophyll. <i>Geophysical Research Letters</i> , 2018, 45, 3508-3519.	1.5	48
63	Spatially-explicit monitoring of crop photosynthetic capacity through the use of space-based chlorophyll fluorescence data. <i>Remote Sensing of Environment</i> , 2018, 210, 362-374.	4.6	69
64	Performance of a two-leaf light use efficiency model for mapping gross primary productivity against remotely sensed sun-induced chlorophyll fluorescence data. <i>Science of the Total Environment</i> , 2018, 613-614, 977-989.	3.9	17
65	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.	4.6	91
66	Distinguishing Anthropogenic CO ₂ Emissions From Different Energy Intensive Industrial Sources Using OCO ₂ Observations: A Case Study in Northern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9462-9473.	1.2	36
67	FluoSpec 2: An Automated Field Spectroscopy System to Monitor Canopy Solar-Induced Fluorescence. <i>Sensors</i> , 2018, 18, 2063.	2.1	67
68	Satellite sun-induced chlorophyll fluorescence detects early response of winter wheat to heat stress in the Indian Indo-Gangetic Plains. <i>Global Change Biology</i> , 2018, 24, 4023-4037.	4.2	152
69	Angle matters: Bidirectional effects impact the slope of relationship between gross primary productivity and sun-induced chlorophyll fluorescence from Orbiting Carbon Observatory ₂ across biomes. <i>Global Change Biology</i> , 2018, 24, 5017-5020.	4.2	62
70	Chlorophyll fluorescence tracks seasonal variations of photosynthesis from leaf to canopy in a temperate forest. <i>Global Change Biology</i> , 2017, 23, 2874-2886.	4.2	135
71	Satellite chlorophyll fluorescence measurements reveal large-scale decoupling of photosynthesis and greenness dynamics in boreal evergreen forests. <i>Global Change Biology</i> , 2016, 22, 2979-2996.	4.2	225
72	Comparison of solar-induced chlorophyll fluorescence, light-use efficiency, and process-based GPP models in maize. <i>Ecological Applications</i> , 2016, 26, 1211-1222.	1.8	82

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73	Recent advances in global monitoring of terrestrial sun-induced chlorophyll fluorescence. , 2016, , .		5
74	Drought rapidly diminishes the large net CO ₂ uptake in 2011 over semi-arid Australia. Scientific Reports, 2016, 6, 37747.	1.6	83
75	Can we retrieve vegetation photosynthetic capacity paramter from solar-induced fluorescence?. , 2016, , .		3
76	Consistency between sun-induced chlorophyll fluorescence and gross primary production of vegetation in North America. Remote Sensing of Environment, 2016, 183, 154-169.	4.6	180
77	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.	4.6	185
78	Fusion of SCIAMACHY and GOME-2 satellite sun-induced fluorescence data. , 2016, , .		1
79	Improving the monitoring of crop productivity using spaceborne solar-induced fluorescence. Global Change Biology, 2016, 22, 716-726.	4.2	240
80	Reply to Magnani et al.: Linking large-scale chlorophyll fluorescence observations with cropland gross primary production. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2511.	3.3	11
81	Estimation of vegetation photosynthetic capacity from space-based measurements of chlorophyll fluorescence for terrestrial biosphere models. Global Change Biology, 2014, 20, 3727-3742.	4.2	260
82	Global and time-resolved monitoring of crop photosynthesis with chlorophyll fluorescence. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1327-33.	3.3	741
83	Functional response of U.S. grasslands to the early 21st-century drought. Ecology, 2014, 95, 2121-2133.	1.5	75
84	The seasonal cycle of satellite chlorophyll fluorescence observations and its relationship to vegetation phenology and ecosystem atmosphere carbon exchange. Remote Sensing of Environment, 2014, 152, 375-391.	4.6	287
85	Ecosystem resilience despite large-scale altered hydroclimatic conditions. Nature, 2013, 494, 349-352.	13.7	450
86	Extreme precipitation patterns and reductions of terrestrial ecosystem production across biomes. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 148-157.	1.3	74
87	Assessing phenological change in China from 1982 to 2006 using AVHRR imagery. Frontiers of Earth Science, 2012, 6, 227-236.	0.9	16
88	Comparative rates of wind versus water erosion from a small semiarid watershed in southern Arizona, USA. Aeolian Research, 2011, 3, 197-204.	1.1	20
89	Projected rainfall erosivity changes under climate change from multimodel and multiscenario projections in Northeast China. Journal of Hydrology, 2010, 384, 97-106.	2.3	98
90	The characteristics of gully erosion over rolling hilly black soil areas of Northeast China. Journal of Chinese Geography, 2009, 19, 309-320.	1.5	29

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91	Development of gullies and sediment production in the black soil region of northeastern China. <i>Geomorphology</i> , 2008, 101, 683-691.	1.1	103
92	Short-term gully retreat rates over rolling hill areas in black soil of Northeast China. <i>Catena</i> , 2007, 71, 321-329.	2.2	71
93	Characteristics and factors controlling the development of ephemeral gullies in cultivated catchments of black soil region, Northeast China. <i>Soil and Tillage Research</i> , 2007, 96, 28-41.	2.6	163
94	LINKING PHOTOSYNTHETIC LIGHT USE EFFICIENCY AND OPTICAL VEGETATION ACTIVE INDICATORS: IMPLICATIONS FOR GROSS PRIMARY PRODUCTION ESTIMATION BY REMOTE SENSING. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, V-3-2020, 571-578.	0.0	2