Yi Y Liu

List of Publications by Year
in descending order

62 papers	9,431 citations	109321 35 h-index	128289 60 g-index
63 all docs	63 docs citations	63 times ranked	10840 citing authors

#	Article	IF	Citations
1	Contribution of semi-arid ecosystems to interannual variability of the global carbon cycle. Nature, 2014, 509, 600-603.	27.8	1,054
2	The Millennium Drought in southeast Australia (2001â€“2009): Natural and human causes and implications for water resources, ecosystems, economy, and society. Water Resources Research, 2013, 49, 1040-1057.	4.2	977
3	ESA CCI Soil Moisture for improved Earth system understanding: State-of-the art and future directions. Remote Sensing of Environment, 2017, 203, 185-215.	11.0	781
4	Trend-preserving blending of passive and active microwave soil moisture retrievals. Remote Sensing of Environment, 2012, 123, 280-297.	11.0	670
5	Developing an improved soil moisture dataset by blending passive and active microwave satellite-based retrievals. Hydrology and Earth System Sciences, 2011, 15, 425-436.	4.9	572
6	Recent reversal in loss of global terrestrialÂbiomass. Nature Climate Change, 2015, 5, 470-474.	18.8	447
7	Multi-decadal trends in global terrestrial evapotranspiration and its components. Scientific Reports, 2016, 6, 19124.	3.3	384
8	Widespread decline of Congo rainforest greenness in the past decade. Nature, 2014, 509, 86-90.	27.8	351
9	Error characterisation of global active and passive microwave soil moisture datasets. Hydrology and Earth System Sciences, 2010, 14, 2605-2616.	4.9	332
10	Large Chinese land carbon sink estimated from atmospheric carbon dioxide data. Nature, 2020, 586, 720-723.	27.8	320
11	Large divergence of satellite and Earth system model estimates of global terrestrial CO2Âfertilization. Nature Climate Change, 2016, 6, 306-310.	18.8	309
12	Nitrogen and phosphorus constrain the CO2 fertilization of global plant biomass. Nature Climate Change, 2019, 9, 684-689.	18.8	269
13	Evaluating global trends (1988â€“2010) in harmonized multiâ€satellite surface soil moisture. Geophysical Research Letters, 2012, 39, .	4.0	268
14	Using satellite based soil moisture to quantify the water driven variability in NDVI: A case study over mainland Australia. Remote Sensing of Environment, 2014, 140, 330-338.	11.0	251
15	Global long-term passive microwave satellite-based retrievals of vegetation optical depth. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	222
16	A three-dimensional gap filling method for large geophysical datasets: Application to global satellite soil moisture observations. Environmental Modelling and Software, 2012, 30, 139-142.	4.5	186
17	Remote sensing of vegetation dynamics in drylands: Evaluating vegetation optical depth (VOD) using AVHRR NDVI and in situ green biomass data over West African Sahel. Remote Sensing of Environment, 2016, 177, 265-276.	11.0	174
18	Global changes in dryland vegetation dynamics (1988â€“2008) assessed by satellite remote sensing: comparing a new passive microwave vegetation density record with reflective greenness data. Biogeosciences, 2013, 10, 6657-6676.	3.3	158

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19	Global vegetation biomass change (1988-2008) and attribution to environmental and human drivers. Global Ecology and Biogeography, 2013, 22, 692-705.	5.8	149
20	A global comparison of alternate AMSR2 soil moisture products: Why do they differ?. Remote Sensing of Environment, 2015, 161, 43-62.	11.0	144
21	Changing Climate and Overgrazing Are Decimating Mongolian Steppes. PLoS ONE, 2013, 8, e57599.	2.5	136
22	Detecting dryland degradation using Time Series Segmentation and Residual Trend analysis (TSS-RESTREND). Remote Sensing of Environment, 2017, 197, 43-57.	11.0	117
23	Error Estimates for Near-Real-Time Satellite Soil Moisture as Derived From the Land Parameter Retrieval Model. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 779-783.	3.1	102
24	Mapping gains and losses in woody vegetation across global tropical drylands. Global Change Biology, 2017, 23, 1748-1760.	9.5	77
25	Widespread increase of boreal summer dry season length over the Congo rainforest. Nature Climate Change, 2019, 9, 617-622.	18.8	70
26	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. National Science Review, 2021, 8, nwaa145.	9.5	70
27	An analysis of spatiotemporal variations of soil and vegetation moisture from a 29â€year satelliteâ€derived data set over mainland Australia. Water Resources Research, 2009, 45, .	4.2	64
28	The dry season intensity as a key driver of NPP trends. Geophysical Research Letters, 2016, 43, 2632-2639.	4.0	60
29	Land-use and land-cover change carbon emissions between 1901 and 2012 constrained by biomass observations. Biogeosciences, 2017, 14, 5053-5067.	3.3	58
30	Assessing the relationship between microwave vegetation optical depth and gross primary production. International Journal of Applied Earth Observation and Geoinformation, 2018, 65, 79-91.	2.8	50
31	Global Land Surface Temperature Change (2003â€“2017) and Its Relationship with Climate Drivers: AIRS, MODIS, and ERA5-Land Based Analysis. Remote Sensing, 2021, 13, 44.	4.0	50
32	Contribution of water-limited ecoregions to their own supply of rainfall. Environmental Research Letters, 2016, 11, 124007.	5.2	47
33	A framework for combining multiple soil moisture retrievals based on maximizing temporal correlation. Geophysical Research Letters, 2015, 42, 6662-6670.	4.0	45
34	Trends of land surface phenology derived from passive microwave and optical remote sensing systems and associated drivers across the dry tropics 1992â€“2012. Remote Sensing of Environment, 2019, 232, 111307.	11.0	43
35	The impact of dataset selection on land degradation assessment. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 22-37.	11.1	36
36	TRMMâ€TMI satellite observed soil moisture and vegetation density (1998â€“2005) show strong connection with El NiÃ±o in eastern Australia. Geophysical Research Letters, 2007, 34, .	4.0	33

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37	Enhanced canopy growth precedes senescence in 2005 and 2010 Amazonian droughts. Remote Sensing of Environment, 2018, 211, 26-37.	11.0	33
38	Annual South American forest loss estimates based on passive microwave remote sensing (1990â€“2010). Biogeosciences, 2016, 13, 609-624.	3.3	28
39	Land use change and El NiÃ±o-Southern Oscillation drive decadal carbon balance shifts in Southeast Asia. Nature Communications, 2018, 9, 1154.	12.8	28
40	Reconstruction of ESA CCI satellite-derived soil moisture using an artificial neural network technology. Science of the Total Environment, 2021, 782, 146602.	8.0	25
41	Influence of cracking clays on satellite estimated and model simulated soil moisture. Hydrology and Earth System Sciences, 2010, 14, 979-990.	4.9	24
42	The carbon cycle in Mexico: past, present and future of C stocks and fluxes. Biogeosciences, 2016, 13, 223-238.	3.3	24
43	An alternative AMSR2 vegetation optical depth for monitoring vegetation at large scales. Remote Sensing of Environment, 2021, 263, 112556.	11.0	23
44	Impact of deforestation and climate on the Amazon Basinâ€™s above-ground biomass during 1993â€“2012. Scientific Reports, 2017, 7, 15615.	3.3	20
45	African dryland ecosystem changes controlled by soil water. Land Degradation and Development, 2019, 30, 1564-1573.	3.9	18
46	Advantages of Using Microwave Satellite Soil Moisture over Gridded Precipitation Products and Land Surface Model Output in Assessing Regional Vegetation Water Availability and Growth Dynamics for a Lateral Inflow Receiving Landscape. Remote Sensing, 2016, 8, 428.	4.0	15
47	Merging Alternate Remotely-Sensed Soil Moisture Retrievals Using a Non-Static Model Combination Approach. Remote Sensing, 2016, 8, 518.	4.0	14
48	The Evaluation of Single-Sensor Surface Soil Moisture Anomalies over the Mainland of the Peopleâ€™s Republic of China. Remote Sensing, 2017, 9, 149.	4.0	14
49	Spatial Disaggregation of Coarse Soil Moisture Data by Using High-Resolution Remotely Sensed Vegetation Products. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1604-1608.	3.1	13
50	Multi-objective assessment of three remote sensing vegetation products for streamflow prediction in a conceptual ecohydrological model. Journal of Hydrology, 2016, 543, 686-705.	5.4	12
51	Estimating fire severity and carbon emissions over Australian tropical savannahs based on passive microwave satellite observations. International Journal of Remote Sensing, 2018, 39, 6479-6498.	2.9	9
52	The Addition of Temperature to the TSS-RESTREND Methodology Significantly Improves the Detection of Dryland Degradation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2342-2348.	4.9	9
53	Maximizing Temporal Correlations in Long-Term Global Satellite Soil Moisture Data-Merging. Remote Sensing, 2020, 12, 2164.	4.0	8
54	Forest Canopy Changes in the Southern Amazon during the 2019 Fire Season Based on Passive Microwave and Optical Satellite Observations. Remote Sensing, 2021, 13, 2238.	4.0	7

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55	Asymmetric NDVI trends of the two cropping seasons in the Huai River basin. Remote Sensing Letters, 2016, 7, 61-70.	1.4	6
56	Estimating grassland curing with remotely sensed data. Natural Hazards and Earth System Sciences, 2018, 18, 1535-1554.	3.6	6
57	Improved surface soil moisture anomalies from Fengyun-3B over the Jiangxi province of the Peopleâ€™s Republic of China. International Journal of Remote Sensing, 2018, 39, 8950-8962.	2.9	6
58	Improving the Combination of Satellite Soil Moisture Data Sets by Considering Error Cross Correlation: A Comparison Between Triple Collocation (TC) and Extended Double Instrumental Variable (EIVD) Alternatives. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7285-7295.	6.3	5
59	Constructing and analyzing a 32-years climate data record of remotely sensed soil moisture. , 2012, , .		3
60	Towards Consistent Soil Moisture Records from Chinaâ€™s FengYun-3 Microwave Observations. Remote Sensing, 2022, 14, 1225.	4.0	3
61	Rethinking Satellite Data Merging: From Averaging to SNR Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	2
62	A Hedonic Price Model of Coral Reef Quality in Hawaii. , 2011, , .		0