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	Rethinking Satellite Data Merging: From Averaging to SNR Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	2
2	Towards Consistent Soil Moisture Records from Chinaâ€™s FengYun-3 Microwave Observations. Remote Sensing, 2022, 14, 1225.	4.0	3
3	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. National Science Review, 2021, 8, nwaa145.	9.5	70
4	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
5	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
6	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
7	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
8	An alternative AMSR2 vegetation optical depth for monitoring vegetation at large scales. Remote Sensing of Environment, 2021, 263, 112556.	11.0	23
9	Maximizing Temporal Correlations in Long-Term Global Satellite Soil Moisture Data-Merging. Remote Sensing, 2020, 12, 2164.	4.0	8
10	Large Chinese land carbon sink estimated from atmospheric carbon dioxide data. Nature, 2020, 586, 720-723.	27.8	320
11	Nitrogen and phosphorus constrain the CO2 fertilization of global plant biomass. Nature Climate Change, 2019, 9, 684-689.	18.8	269
12	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
13	Widespread increase of boreal summer dry season length over the Congo rainforest. Nature Climate Change, 2019, 9, 617-622.	18.8	70
14	African dryland ecosystem changes controlled by soil water. Land Degradation and Development, 2019, 30, 1564-1573.	3.9	18
15	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
16	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
17	Enhanced canopy growth precedes senescence in 2005 and 2010 Amazonian droughts. Remote Sensing of Environment, 2018, 211, 26-37.	11.0	33
18	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

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19	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
20	Estimating grassland curing with remotely sensed data. Natural Hazards and Earth System Sciences, 2018, 18, 1535-1554.	3.6	6
21	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
22	The impact of dataset selection on land degradation assessment. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 22-37.	11.1	36
23	Detecting dryland degradation using Time Series Segmentation and Residual Trend analysis (TSS-RESTREND). Remote Sensing of Environment, 2017, 197, 43-57.	11.0	117
24	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
25	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
26	Impact of deforestation and climate on the Amazon Basinâ€™s above-ground biomass during 1993â€“2012. Scientific Reports, 2017, 7, 15615.	3.3	20
27	Mapping gains and losses in woody vegetation across global tropical drylands. Global Change Biology, 2017, 23, 1748-1760.	9.5	77
28	Land-use and land-cover change carbon emissions between 1901 and 2012 constrained by biomass observations. Biogeosciences, 2017, 14, 5053-5067.	3.3	58
29	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
30	The carbon cycle in Mexico: past, present and future of C stocks and fluxes. Biogeosciences, 2016, 13, 223-238.	3.3	24
31	Annual South American forest loss estimates based on passive microwave remote sensing (1990â€“2010). Biogeosciences, 2016, 13, 609-624.	3.3	28
32	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
33	Merging Alternate Remotely-Sensed Soil Moisture Retrievals Using a Non-Static Model Combination Approach. Remote Sensing, 2016, 8, 518.	4.0	14
34	The dry season intensity as a key driver of NPP trends. Geophysical Research Letters, 2016, 43, 2632-2639.	4.0	60
35	Contribution of water-limited ecoregions to their own supply of rainfall. Environmental Research Letters, 2016, 11, 124007.	5.2	47
36	Multi-decadal trends in global terrestrial evapotranspiration and its components. Scientific Reports, 2016, 6, 19124.	3.3	384

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37	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
38	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
39	Large divergence of satellite and Earth system model estimates of global terrestrial CO2Âfertilization. Nature Climate Change, 2016, 6, 306-310.	18.8	309
40	Asymmetric NDVI trends of the two cropping seasons in the Huai River basin. Remote Sensing Letters, 2016, 7, 61-70.	1.4	6
41	A framework for combining multiple soil moisture retrievals based on maximizing temporal correlation. Geophysical Research Letters, 2015, 42, 6662-6670.	4.0	45
42	A global comparison of alternate AMSR2 soil moisture products: Why do they differ?. Remote Sensing of Environment, 2015, 161, 43-62.	11.0	144
43	Recent reversal in loss of global terrestrialÂbiomass. Nature Climate Change, 2015, 5, 470-474.	18.8	447
44	Contribution of semi-arid ecosystems to interannual variability of the global carbon cycle. Nature, 2014, 509, 600-603.	27.8	1,054
45	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
46	Widespread decline of Congo rainforest greenness in the past decade. Nature, 2014, 509, 86-90.	27.8	351
47	Global vegetation biomass change (1988-2008) and attribution to environmental and human drivers. Global Ecology and Biogeography, 2013, 22, 692-705.	5.8	149
48	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
49	Changing Climate and Overgrazing Are Decimating Mongolian Steppes. PLoS ONE, 2013, 8, e57599.	2.5	136
50	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
51	Constructing and analyzing a 32-years climate data record of remotely sensed soil moisture. , 2012, , .		3
52	Trend-preserving blending of passive and active microwave soil moisture retrievals. Remote Sensing of Environment, 2012, 123, 280-297.	11.0	670
53	Evaluating global trends (1988â€“2010) in harmonized multiâ€satellite surface soil moisture. Geophysical Research Letters, 2012, 39, .	4.0	268
54	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

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55	Global long-term passive microwave satellite-based retrievals of vegetation optical depth. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	222
56	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
57	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
58	A Hedonic Price Model of Coral Reef Quality in Hawaii. , 2011, , .		0
59	Error characterisation of global active and passive microwave soil moisture datasets. Hydrology and Earth System Sciences, 2010, 14, 2605-2616.	4.9	332
60	Influence of cracking clays on satellite estimated and model simulated soil moisture. Hydrology and Earth System Sciences, 2010, 14, 979-990.	4.9	24
61	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
62	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