Xiang Zhang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Automatic BIM component extraction from point clouds of existing buildings for sustainability applications. Automation in Construction, 2015, 56, 1-13.	4.8	213
2	Satellite surface soil moisture from SMAP, SMOS, AMSR2 and ESA CCI: A comprehensive assessment using global ground-based observations. Remote Sensing of Environment, 2019, 231, 111215.	4.6	186
3	Urban drought challenge to 2030 sustainable development goals. Science of the Total Environment, 2019, 693, 133536.	3.9	147
4	Multi-sensor integrated framework and index for agricultural drought monitoring. Remote Sensing of Environment, 2017, 188, 141-163.	4.6	116
5	The International Soil Moisture Network: serving Earth system science for over a decade. Hydrology and Earth System Sciences, 2021, 25, 5749-5804.	1.9	116
6	Global drought trends under 1.5 and 2 °C warming. International Journal of Climatology, 2019, 39, 2375-2385.	1.5	100
7	Quantitative analysis of agricultural drought propagation process in the Yangtze River Basin by using cross wavelet analysis and spatial autocorrelation. Agricultural and Forest Meteorology, 2020, 280, 107809.	1.9	98
8	Continental drought monitoring using satellite soil moisture, data assimilation and an integrated drought index. Remote Sensing of Environment, 2020, 250, 112028.	4.6	94
9	Droughts in India from 1981 to 2013 and Implications to Wheat Production. Scientific Reports, 2017, 7, 44552.	1.6	80
10	In-situ and triple-collocation based evaluations of eight global root zone soil moisture products. Remote Sensing of Environment, 2021, 254, 112248.	4.6	77
11	Integrated open geospatial web service enabled cyber-physical information infrastructure for precision agriculture monitoring. Computers and Electronics in Agriculture, 2015, 111, 78-91.	3.7	71
12	Urban Expansion in Ethiopia from 1987 to 2017: Characteristics, Spatial Patterns, and Driving Forces. Sustainability, 2019, 11, 2973.	1.6	69
13	Annual large-scale urban land mapping based on Landsat time series in Google Earth Engine and OpenStreetMap data: A case study in the middle Yangtze River basin. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 159, 337-351.	4.9	67
14	An evaluation of statistical, NMME and hybrid models for drought prediction in China. Journal of Hydrology, 2018, 566, 235-249.	2.3	65
15	Improving Global Monthly and Daily Precipitation Estimation by Fusing Gauge Observations, Remote Sensing, and Reanalysis Data Sets. Water Resources Research, 2020, 56, e2019WR026444.	1.7	64
16	Drought propagation in Northern China Plain: A comparative analysis of GLDAS and MERRA-2 datasets. Journal of Hydrology, 2020, 588, 125026.	2.3	56
17	Geospatial sensor web: A cyber-physical infrastructure for geoscience research and application. Earth-Science Reviews, 2018, 185, 684-703.	4.0	50
18	Spatiotemporal Changes in China's Terrestrial Water Storage From GRACE Satellites and Its Possible Drivers. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11976-11993.	1.2	44

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19	A combined model for river health evaluation based upon the physical, chemical, and biological elements. Ecological Indicators, 2018, 84, 416-424.	2.6	42
20	Improving the North American multi-model ensemble (NMME) precipitation forecasts at local areas using wavelet and machine learning. Climate Dynamics, 2019, 53, 601-615.	1.7	42
21	Drought propagation modification after the construction of the Three Gorges Dam in the Yangtze River Basin. Journal of Hydrology, 2021, 603, 127138.	2.3	39
22	Spatial scale and seasonal dependence of land use impacts on riverine water quality in the Huai River basin, China. Environmental Science and Pollution Research, 2017, 24, 20995-21010.	2.7	38
23	Evaluation of six satellite- and model-based surface soil temperature datasets using global ground-based observations. Remote Sensing of Environment, 2021, 264, 112605.	4.6	38
24	Influences of anthropogenic activities and topography on water quality in the highly regulated Huai River basin, China. Environmental Science and Pollution Research, 2016, 23, 21460-21474.	2.7	36
25	A Machine Learning Based Reconstruction Method for Satellite Remote Sensing of Soil Moisture Images with In Situ Observations. Remote Sensing, 2017, 9, 484.	1.8	29
26	Characterizing and explaining spatio-temporal variation of water quality in a highly disturbed river by multi-statistical techniques. SpringerPlus, 2016, 5, 1171.	1.2	28
27	A comparison of large-scale climate signals and the North American Multi-Model Ensemble (NMME) for drought prediction in China. Journal of Hydrology, 2018, 557, 378-390.	2.3	26
28	A data-driven multi-model ensemble for deterministic and probabilistic precipitation forecasting at seasonal scale. Climate Dynamics, 2020, 54, 3355-3374.	1.7	26
29	Using SensorML to construct a geoprocessing e-Science workflow model under a sensor web environment. Computers and Geosciences, 2012, 47, 119-129.	2.0	25
30	Classifying diurnal changes of cyanobacterial blooms in Lake Taihu to identify hot patterns, seasons and hotspots based on hourly GOCI observations. Journal of Environmental Management, 2022, 310, 114782.	3.8	25
31	Urbanization in Small Cities and Their Significant Implications on Landscape Structures: The Case in Ethiopia. Sustainability, 2020, 12, 1235.	1.6	24
32	Multilayer Soil Moisture Mapping at a Regional Scale from Multisource Data via a Machine Learning Method. Remote Sensing, 2019, 11, 284.	1.8	23
33	NIR-Red Spectra-Based Disaggregation of SMAP Soil Moisture to 250 m Resolution Based on OzNet in Southeastern Australia. Remote Sensing, 2017, 9, 51.	1.8	21
34	Mapping Paddy Rice Fields by Combining Multi-Temporal Vegetation Index and Synthetic Aperture Radar Remote Sensing Data Using Google Earth Engine Machine Learning Platform. Remote Sensing, 2020, 12, 2992.	1.8	20
35	Reconstruction of GF-1 Soil Moisture Observation Based on Satellite and <italic>In Situ</italic> Sensor Collaboration Under Full Cloud Contamination. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5185-5202.	2.7	19
36	Quantitative evaluation of observation capability of GF-1 wide field of view sensors for soil moisture inversion. Journal of Applied Remote Sensing, 2015, 9, 097097.	0.6	18

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37	Spatial Configuration and Extent Explains the Urban Heat Mitigation Potential due to Green Spaces: Analysis over Addis Ababa, Ethiopia. Remote Sensing, 2020, 12, 2876.	1.8	18
38	A risk assessment method for remote sensing of cyanobacterial blooms in inland waters. Science of the Total Environment, 2020, 740, 140012.	3.9	17
39	Is satellite Sun-Induced Chlorophyll Fluorescence more indicative than vegetation indices under drought condition?. Science of the Total Environment, 2021, 792, 148396.	3.9	17
40	A Novel Fusion Method for Generating Surface Soil Moisture Data With High Accuracy, High Spatial Resolution, and High Spatioâ€Temporal Continuity. Water Resources Research, 2022, 58, .	1.7	15
41	Tracing anomalies in moisture recycling and transport to two record-breaking droughts over the Mid-to-Lower Reaches of the Yangtze River. Journal of Hydrology, 2022, 609, 127787.	2.3	14
42	A Dynamic Observation Capability Index for Quantitatively Pre-Evaluating Diverse Optical Imaging Satellite Sensors. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 515-530.	2.3	13
43	Urbanization-induced drought modification: Example over the Yangtze River Basin, China. Urban Climate, 2022, 44, 101231.	2.4	13
44	Next-Generation Soil Moisture Sensor Web: High-Density In Situ Observation Over NB-IoT. IEEE Internet of Things Journal, 2021, 8, 13367-13383.	5.5	12
45	Fast and Automatic Reconstruction of Semantically Rich 3D Indoor Maps from Low-quality RGB-D Sequences. Sensors, 2019, 19, 533.	2.1	11
46	A Novel Strategy to Reconstruct NDVI Time-Series with High Temporal Resolution from MODIS Multi-Temporal Composite Products. Remote Sensing, 2021, 13, 1397.	1.8	11
47	Generating high-accuracy and cloud-free surface soil moisture at 1 km resolution by point-surface data fusion over the Southwestern U.S Agricultural and Forest Meteorology, 2022, 321, 108985.	1.9	11
48	Sensor web - Enabled flood event process detection and instant service. Environmental Modelling and Software, 2019, 117, 29-42.	1.9	10
49	Potential Precipitation Predictability Decreases Under Future Warming. Geophysical Research Letters, 2020, 47, e2020GL090798.	1.5	9
50	Prediction of Drought Severity Using Model-Based Clustering. Mathematical Problems in Engineering, 2021, 2021, 1-10.	0.6	9
51	A new propagation-based framework to enhance competency in regional drought monitoring. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 73, 1975404.	0.8	9
52	Prediction for Various Drought Classes Using Spatiotemporal Categorical Sequences. Complexity, 2021, 2021, 1-11.	0.9	9
53	Logistic Regression Analysis for Spatial Patterns of Drought Persistence. Complexity, 2021, 2021, 1-13.	0.9	9
54	Gauging the Severity of the 2012 Midwestern U.S. Drought for Agriculture. Remote Sensing, 2017, 9, 767.	1.8	8

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55	Greenhouse Gas Emissions Drive Global Dryland Expansion but Not Spatial Patterns of Change in Aridification. Journal of Climate, 2022, 35, 2901-2917.	1.2	8
56	Spatial Pattern and Temporal Variation Law-Based Multi-Sensor Collaboration Method for Improving Regional Soil Moisture Monitoring Capabilities. Remote Sensing, 2014, 6, 12309-12333.	1.8	7
57	Assessment and management of nonpoint source pollution based on multicriteria analysis. Environmental Science and Pollution Research, 2019, 26, 27073-27086.	2.7	7
58	8-Day and Daily Maximum and Minimum Air Temperature Estimation via Machine Learning Method on a Climate Zone to Global Scale. Remote Sensing, 2021, 13, 2355.	1.8	7
59	Regional and Seasonal Precipitation and Drought Trends in Ganga–Brahmaputra Basin. Water (Switzerland), 2021, 13, 2218.	1.2	7
60	Generating 1 km Spatially Seamless and Temporally Continuous Air Temperature Based on Deep Learning over Yangtze River Basin, China. Remote Sensing, 2021, 13, 3904.	1.8	7
61	Statistical analysis of modified Hargreaves equation for precise estimation of reference evapotranspiration. Tellus, Series A: Dynamic Meteorology and Oceanography, 2021, 73, 1-12.	0.8	5
62	Development of an assessment framework for the proposed Multi-Scalar Seasonally Amalgamated Regional Standardized Precipitation Evapotranspiration Index (MSARSPEI) for regional drought classifications in global warming context. Journal of Environmental Management, 2022, 312, 114951.	3.8	4
63	Spaceborne Earth-Observing Optical Sensor Static Capability Index for Clustering. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5504-5518.	2.7	3
64	An Ontology-Based Framework for Integrating Remote Sensing Imagery, Image Products, and In Situ Observations. Journal of Sensors, 2020, 2020, 1-12.	0.6	3
65	Integrated geosptial sensor web for agricultural soil moisture monitoring. , 2015, , .		2
66	Development of Hybrid Methods for Prediction of Principal Mineral Resources. Mathematical Problems in Engineering, 2021, 2021, 1-17.	0.6	2
67	GEOSPATIAL SENSOR WEB ADAPTOR FOR INTEGRATING DIVERSE INTERNET OF THINGS PROTOCOLS WITHIN SMART CITY. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-4-2020, 115-121.	0.0	2
68	A Genetic Algorithm–Assisted Deep Neural Network Model for Merging Microwave and Infrared Daily Sea Surface Temperature Products. Frontiers in Environmental Science, 2021, 9, .	1.5	1
69	Assessment of Four Model-Based Surface Soil Temperature Products Unsing Global Dense in Situ Observations. , 2021, , .		0