

Tongren Xu

List of Publications by Year in descending order

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67
papers

2,478
citations

201674

27
h-index

206112

48
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68
all docs

68
docs citations

68
times ranked

1882
citing authors

#	ARTICLE	IF	CITATIONS
1	The Heihe Integrated Observatory Network: A Basin-Scale Land Surface Processes Observatory in China. <i>Vadose Zone Journal</i> , 2018, 17, 1-21.	2.2	258
2	Intercomparison of surface energy flux measurement systems used during the HiWATER-MUSOEXE. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13,140.	3.3	239
3	Upscaling evapotranspiration measurements from multi-site to the satellite pixel scale over heterogeneous land surfaces. <i>Agricultural and Forest Meteorology</i> , 2016, 230-231, 97-113.	4.8	180
4	Evaluating Different Machine Learning Methods for Upscaling Evapotranspiration from Flux Towers to the Regional Scale. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8674-8690.	3.3	141
5	Estimation of daily evapotranspiration and irrigation water efficiency at a Landsat-like scale for an arid irrigation area using multi-source remote sensing data. <i>Remote Sensing of Environment</i> , 2018, 216, 715-734.	11.0	120
6	Evaluation of twelve evapotranspiration products from machine learning, remote sensing and land surface models over conterminous United States. <i>Journal of Hydrology</i> , 2019, 578, 124105.	5.4	92
7	Monitoring and validating spatially and temporally continuous daily evaporation and transpiration at river basin scale. <i>Remote Sensing of Environment</i> , 2018, 219, 72-88.	11.0	82
8	Applications of a thermal-based two-source energy balance model using Priestley-Taylor approach for surface temperature partitioning under advective conditions. <i>Journal of Hydrology</i> , 2016, 540, 574-587.	5.4	64
9	Regional and Global Land Data Assimilation Systems: Innovations, Challenges, and Prospects. <i>Journal of Meteorological Research</i> , 2019, 33, 159-189.	2.4	63
10	Mapping regional turbulent heat fluxes via variational assimilation of land surface temperature data from polar orbiting satellites. <i>Remote Sensing of Environment</i> , 2019, 221, 444-461.	11.0	59
11	Improving Predictions of Water and Heat Fluxes by Assimilating MODIS Land Surface Temperature Products into the Common Land Model. <i>Journal of Hydrometeorology</i> , 2011, 12, 227-244.	1.9	56
12	Intercomparison of Six Upscaling Evapotranspiration Methods: From Site to the Satellite Pixel. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6777-6803.	3.3	50
13	Physiological and environmental control on ecosystem water use efficiency in response to drought across the northern hemisphere. <i>Science of the Total Environment</i> , 2021, 758, 143599.	8.0	48
14	Estimation of surface turbulent heat fluxes via variational assimilation of sequences of land surface temperatures from Geostationary Operational Environmental Satellites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,780.	3.3	47
15	Temporal Upscaling and Reconstruction of Thermal Remotely Sensed Instantaneous Evapotranspiration. <i>Remote Sensing</i> , 2015, 7, 3400-3425.	4.0	47
16	A soil moisture estimation framework based on the CART algorithm and its application in China. <i>Journal of Hydrology</i> , 2018, 563, 65-75.	5.4	45
17	Responses of Water Use Efficiency to Drought in Southwest China. <i>Remote Sensing</i> , 2020, 12, 199.	4.0	45
18	Partitioning Evapotranspiration into Soil Evaporation and Canopy Transpiration via a Two-Source Variational Data Assimilation System. <i>Journal of Hydrometeorology</i> , 2016, 17, 2353-2370.	1.9	41

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19	Uncertainty analysis of eleven multisource soil moisture products in the third pole environment based on the three-corned hat method. <i>Remote Sensing of Environment</i> , 2021, 255, 112225.	11.0	41
20	Estimating turbulent fluxes through assimilation of geostationary operational environmental satellites data using ensemble Kalman filter. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
21	Quantification of the Scale Effect in Downscaling Remotely Sensed Land Surface Temperature. <i>Remote Sensing</i> , 2016, 8, 975.	4.0	37
22	Exploring evapotranspiration changes in a typical endorheic basin through the integrated observatory network. <i>Agricultural and Forest Meteorology</i> , 2020, 290, 108010.	4.8	34
23	Analysis of the Spatiotemporal Change in Land Surface Temperature for a Long-Term Sequence in Africa (2003â€“2017). <i>Remote Sensing</i> , 2020, 12, 488.	4.0	33
24	Deep Learning Convolutional Neural Network for the Retrieval of Land Surface Temperature from AMSR2 Data in China. <i>Sensors</i> , 2019, 19, 2987.	3.8	32
25	Changes in Global Cloud Cover Based on Remote Sensing Data from 2003 to 2012. <i>Chinese Geographical Science</i> , 2019, 29, 306-315.	3.0	32
26	Forecasting daily streamflow values: assessing heuristic models. <i>Hydrology Research</i> , 2018, 49, 658-669.	2.7	29
27	SPI-Based Analyses of Drought Changes over the Past 60 Years in Chinaâ€™s Major Crop-Growing Areas. <i>Remote Sensing</i> , 2018, 10, 171.	4.0	28
28	Characterizing the Effect of Vegetation Dynamics on the Bulk Heat Transfer Coefficient to Improve Variational Estimation of Surface Turbulent Fluxes. <i>Journal of Hydrometeorology</i> , 2017, 18, 321-333.	1.9	27
29	Retrieval of Land-surface Temperature from AMSR2 Data Using a Deep Dynamic Learning Neural Network. <i>Chinese Geographical Science</i> , 2018, 28, 1-11.	3.0	27
30	Dataset of daily near-surface air temperature in China from 1979 to 2018. <i>Earth System Science Data</i> , 2022, 14, 1413-1432.	9.9	26
31	Estimation of Turbulent Heat Fluxes by Assimilation of Land Surface Temperature Observations From GOES Satellites Into an Ensemble Kalman Smoother Framework. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2409-2423.	3.3	24
32	Mapping regional evapotranspiration in cloudy skies via variational assimilation of all-weather land surface temperature observations. <i>Journal of Hydrology</i> , 2020, 585, 124790.	5.4	24
33	A Bayesian Three-Cornered Hat (BTCH) Method: Improving the Terrestrial Evapotranspiration Estimation. <i>Remote Sensing</i> , 2020, 12, 878.	4.0	24
34	Evapotranspiration partitioning for multiple ecosystems within a dryland watershed: Seasonal variations and controlling factors. <i>Journal of Hydrology</i> , 2021, 598, 126483.	5.4	24
35	Generalizability of gene expression programming and random forest methodologies in estimating cropland and grassland leaf area index. <i>Computers and Electronics in Agriculture</i> , 2018, 144, 232-240.	7.7	23
36	Estimating Turbulent Heat Fluxes With a Weak-Constraint Data Assimilation Scheme: A Case Study (HiWATER-MUSOEXE). <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 68-72.	3.1	22

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37	A dual-pass data assimilation scheme for estimating surface fluxes with FY3A-VIRR land surface temperature. <i>Science China Earth Sciences</i> , 2015, 58, 211-230.	5.2	20
38	Evaluation of a satellite-derived model parameterized by three soil moisture constraints to estimate terrestrial latent heat flux in the Heihe River basin of Northwest China. <i>Science of the Total Environment</i> , 2019, 695, 133787.	8.0	17
39	Evaluation of the Weak Constraint Data Assimilation Approach for Estimating Turbulent Heat Fluxes at Six Sites. <i>Remote Sensing</i> , 2018, 10, 1994.	4.0	16
40	Improve the Performance of the Noah-CP-Crop Model by Jointly Assimilating Soil Moisture and Vegetation Phenology Data. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002394.	3.8	15
41	Estimation of surface heat fluxes using multi-angular observations of radiative surface temperature. <i>Remote Sensing of Environment</i> , 2020, 239, 111674.	11.0	14
42	Global Food Security Assessment during 1961–2019. <i>Sustainability</i> , 2021, 13, 14005.	3.2	14
43	Scaling Flux Tower Observations of Sensible Heat Flux Using Weighted Area-to-Area Regression Kriging. <i>Atmosphere</i> , 2015, 6, 1032-1044.	2.3	13
44	Investigating microclimate effects in an oasis-desert interaction zone. <i>Agricultural and Forest Meteorology</i> , 2020, 290, 107992.	4.8	13
45	Quality suitability modeling of volatile oil in Chinese <i>Materia Medica</i> – Based on maximum entropy and independent weight coefficient method: Case studies of <i>Atractylodes lancea</i> , <i>Angelica sinensis</i> , <i>Curcuma longa</i> and <i>Atractylodes macrocephala</i> . <i>Industrial Crops and Products</i> , 2019, 142, 111807.	5.2	12
46	Upscaling Evapotranspiration from a Single-Site to Satellite Pixel Scale. <i>Remote Sensing</i> , 2021, 13, 4072.	4.0	12
47	Improving predictions of evapotranspiration by integrating multi-source observations and land surface model. <i>Agricultural Water Management</i> , 2022, 272, 107827.	5.6	12
48	Wind Dynamics Over a Highly Heterogeneous Oasis Area: An Experimental and Numerical Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8418-8440.	3.3	11
49	Monitoring the Spatial and Temporal Variations in The Water Surface and Floating Algal Bloom Areas in Dongting Lake Using a Long-Term MODIS Image Time Series. <i>Remote Sensing</i> , 2020, 12, 3622.	4.0	11
50	Mapping Regional Turbulent Heat Fluxes via Assimilation of MODIS Land Surface Temperature Data into an Ensemble Kalman Smoother Framework. <i>Earth and Space Science</i> , 2019, 6, 2423-2442.	2.6	10
51	Long-Term Spatiotemporal Dynamics of Terrestrial Biophysical Variables in the Three-River Headwaters Region of China from Satellite and Meteorological Datasets. <i>Remote Sensing</i> , 2019, 11, 1633.	4.0	9
52	Assessment and improvement of Noah-MP for simulating water and heat exchange over alpine grassland in growing season. <i>Science China Earth Sciences</i> , 2022, 65, 536-552.	5.2	9
53	Long-Term Spatiotemporal Variations in Soil Moisture in North East China Based on 1-km Resolution Downscaled Passive Microwave Soil Moisture Products. <i>Sensors</i> , 2019, 19, 3527.	3.8	8
54	Evaluating Spatial Heterogeneity of Land Surface Hydrothermal Conditions in the Heihe River Basin. <i>Chinese Geographical Science</i> , 2020, 30, 855-875.	3.0	8

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55	Modeling Transpiration with Sun-Induced Chlorophyll Fluorescence Observations via Carbon-Water Coupling Methods. <i>Remote Sensing</i> , 2021, 13, 804.	4.0	8
56	A new global gridded sea surface temperature data product based on multisource data. <i>Earth System Science Data</i> , 2021, 13, 2111-2134.	9.9	8
57	Estimating river accommodation capacity for organic pollutants in data-scarce areas. <i>Journal of Hydrology</i> , 2018, 564, 442-451.	5.4	7
58	Spatiotemporal Change Analysis of Soil Moisture Based on Downscaling Technology in Africa. <i>Water (Switzerland)</i> , 2022, 14, 74.	2.7	6
59	Estimation of Turbulent Heat Fluxes and Gross Primary Productivity by Assimilating Land Surface Temperature and Leaf Area Index. <i>Water Resources Research</i> , 0, , .	4.2	5
60	Diagnosing the Temperature Sensitivity of Ecosystem Respiration in Northern High-Latitude Regions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005998.	3.0	3
61	Reconstruction of remotely sensed daily evapotranspiration data in cloudy-sky conditions. <i>Agricultural Water Management</i> , 2021, 255, 107000.	5.6	3
62	Regional climate change after the commissioning of the Three Gorges Dam: a case study for the middle reaches of the Yangtze River. <i>Climate Research</i> , 2018, 75, 33-51.	1.1	3
63	Estimation of CO ₂ flux components over northern hemisphere forest ecosystems by using random forest method through temporal and spatial data scanning procedures. <i>Environmental Science and Pollution Research</i> , 2022, 29, 16123-16137.	5.3	3
64	Factors driving temporospatial heterogeneity of fish community health in Jinan City, China. <i>Marine and Freshwater Research</i> , 2019, 70, 637.	1.3	2
65	Feasibility of Estimating Turbulent Heat Fluxes via Variational Assimilation of Reference-Level Air Temperature and Specific Humidity Observations. <i>Remote Sensing</i> , 2020, 12, 1065.	4.0	1
66	Remote Sensing Data Products for Land Surface Data Assimilation System Application. , 2013, , 3-43.		0
67	Application of the two-source energy balance model with microwave-derived soil moisture in a semi-arid agricultural region. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 112, 102879.	1.9	0