Tongren Xu

List of Publications by Year
in descending order

67 papers	2,478 citations	201385 27 h-index	205818 48 g-index
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. Vadose Zone Journal, 2018, 17, 1-21.	1.3	258
2	Intercomparison of surface energy flux measurement systems used during the HiWATER‐MUSOEXE. Journal of Geophysical Research D: Atmospheres, 2013, 118, 13,140.	1.2	239
3	Upscaling evapotranspiration measurements from multi-site to the satellite pixel scale over heterogeneous land surfaces. Agricultural and Forest Meteorology, 2016, 230-231, 97-113.	1.9	180
4	Evaluating Different Machine Learning Methods for Upscaling Evapotranspiration from Flux Towers to the Regional Scale. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8674-8690.	1.2	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. Remote Sensing of Environment, 2018, 216, 715-734.	4.6	120
6	Evaluation of twelve evapotranspiration products from machine learning, remote sensing and land surface models over conterminous United States. Journal of Hydrology, 2019, 578, 124105.	2.3	92
7	Monitoring and validating spatially and temporally continuous daily evaporation and transpiration at river basin scale. Remote Sensing of Environment, 2018, 219, 72-88.	4.6	82
8	Applications of a thermal-based two-source energy balance model using Priestley-Taylor approach for surface temperature partitioning under advective conditions. Journal of Hydrology, 2016, 540, 574-587.	2.3	64
9	Regional and Global Land Data Assimilation Systems: Innovations, Challenges, and Prospects. Journal of Meteorological Research, 2019, 33, 159-189.	0.9	63
10	Mapping regional turbulent heat fluxes via variational assimilation of land surface temperature data from polar orbiting satellites. Remote Sensing of Environment, 2019, 221, 444-461.	4.6	59
11	Improving Predictions of Water and Heat Fluxes by Assimilating MODIS Land Surface Temperature Products into the Common Land Model. Journal of Hydrometeorology, 2011, 12, 227-244.	0.7	56
12	Intercomparison of Six Upscaling Evapotranspiration Methods: From Site to the Satellite Pixel. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6777-6803.	1.2	50
13	Physiological and environmental control on ecosystem water use efficiency in response to drought across the northern hemisphere. Science of the Total Environment, 2021, 758, 143599.	3.9	48
14	Estimation of surface turbulent heat fluxes via variational assimilation of sequences of land surface temperatures from Geostationary Operational Environmental Satellites. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,780.	1.2	47
15	Temporal Upscaling and Reconstruction of Thermal Remotely Sensed Instantaneous Evapotranspiration. Remote Sensing, 2015, 7, 3400-3425.	1.8	47
16	A soil moisture estimation framework based on the CART algorithm and its application in China. Journal of Hydrology, 2018, 563, 65-75.	2.3	45
17	Responses of Water Use Efficiency to Drought in Southwest China. Remote Sensing, 2020, 12, 199.	1.8	45
18	Partitioning Evapotranspiration into Soil Evaporation and Canopy Transpiration via a Two-Source Variational Data Assimilation System. Journal of Hydrometeorology, 2016, 17, 2353-2370.	0.7	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. Remote Sensing of Environment, 2021, 255, 112225.	4.6	41
20	Estimating turbulent fluxes through assimilation of geostationary operational environmental satellites data using ensemble Kalman filter. Journal of Geophysical Research, 2011, 116, .	3.3	39
21	Quantification of the Scale Effect in Downscaling Remotely Sensed Land Surface Temperature. Remote Sensing, 2016, 8, 975.	1.8	37
22	Exploring evapotranspiration changes in a typical endorheic basin through the integrated observatory network. Agricultural and Forest Meteorology, 2020, 290, 108010.	1.9	34
23	Analysis of the Spatiotemporal Change in Land Surface Temperature for a Long-Term Sequence in Africa (2003â€"2017). Remote Sensing, 2020, 12, 488.	1.8	33
24	Deep Learning Convolutional Neural Network for the Retrieval of Land Surface Temperature from AMSR2 Data in China. Sensors, 2019, 19, 2987.	2.1	32
25	Changes in Global Cloud Cover Based on Remote Sensing Data from 2003 to 2012. Chinese Geographical Science, 2019, 29, 306-315.	1.2	32
26	Forecasting daily streamflow values: assessing heuristic models. Hydrology Research, 2018, 49, 658-669.	1.1	29
27	SPI-Based Analyses of Drought Changes over the Past 60 Years in Chinaâ€™s Major Crop-Growing Areas. Remote Sensing, 2018, 10, 171.	1.8	28
28	Characterizing the Effect of Vegetation Dynamics on the Bulk Heat Transfer Coefficient to Improve Variational Estimation of Surface Turbulent Fluxes. Journal of Hydrometeorology, 2017, 18, 321-333.	0.7	27
29	Retrieval of Land-surface Temperature from AMSR2 Data Using a Deep Dynamic Learning Neural Network. Chinese Geographical Science, 2018, 28, 1-11.	1.2	27
30	Dataset of daily near-surface air temperature in China from 1979 to 2018. Earth System Science Data, 2022, 14, 1413-1432.	3.7	26
31	Estimation of Turbulent Heat Fluxes by Assimilation of Land Surface Temperature Observations From GOES Satellites Into an Ensemble Kalman Smoother Framework. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2409-2423.	1.2	24
32	Mapping regional evapotranspiration in cloudy skies via variational assimilation of all-weather land surface temperature observations. Journal of Hydrology, 2020, 585, 124790.	2.3	24
33	A Bayesian Three-Cornered Hat (BTCH) Method: Improving the Terrestrial Evapotranspiration Estimation. Remote Sensing, 2020, 12, 878.	1.8	24
34	Evapotranspiration partitioning for multiple ecosystems within a dryland watershed: Seasonal variations and controlling factors. Journal of Hydrology, 2021, 598, 126483.	2.3	24
35	Generalizability of gene expression programming and random forest methodologies in estimating cropland and grassland leaf area index. Computers and Electronics in Agriculture, 2018, 144, 232-240.	3.7	23
36	Estimating Turbulent Heat Fluxes With a Weak-Constraint Data Assimilation Scheme: A Case Study (HiWATER-MUSOEXE). IEEE Geoscience and Remote Sensing Letters, 2015, 12, 68-72.	1.4	22

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37	A dual-pass data assimilation scheme for estimating surface fluxes with FY3A-VIRR land surface temperature. Science China Earth Sciences, 2015, 58, 211-230.	2.3	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. Science of the Total Environment, 2019, 695, 133787.	3.9	17
39	Evaluation of the Weak Constraint Data Assimilation Approach for Estimating Turbulent Heat Fluxes at Six Sites. Remote Sensing, 2018, 10, 1994.	1.8	16
40	Improve the Performance of the Noah–MP–Crop Model by Jointly Assimilating Soil Moisture and Vegetation Phenology Data. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002394.	1.3	15
41	Estimation of surface heat fluxes using multi-angular observations of radiative surface temperature. Remote Sensing of Environment, 2020, 239, 111674.	4.6	14
42	Global Food Security Assessment during 1961–2019. Sustainability, 2021, 13, 14005.	1.6	14
43	Scaling Flux Tower Observations of Sensible Heat Flux Using Weighted Area-to-Area Regression Kriging. Atmosphere, 2015, 6, 1032-1044.	1.0	13
44	Investigating microclimate effects in an oasis-desert interaction zone. Agricultural and Forest Meteorology, 2020, 290, 107992.	1.9	13
45	Quality suitability modeling of volatile oil in Chinese Materia Medica – Based on maximum entropy and independent weight coefficient method: Case studies of Atractylodes lancea, Angelica sinensis, Curcuma longa and Atractylodes macrocephala. Industrial Crops and Products, 2019, 142, 111807.	2.5	12
46	Upscaling Evapotranspiration from a Single-Site to Satellite Pixel Scale. Remote Sensing, 2021, 13, 4072.	1.8	12
47	Improving predictions of evapotranspiration by integrating multi-source observations and land surface model. Agricultural Water Management, 2022, 272, 107827.	2.4	12
48	Wind Dynamics Over a Highly Heterogeneous Oasis Area: An Experimental and Numerical Study. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8418-8440.	1.2	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. Remote Sensing, 2020, 12, 3622.	1.8	11
50	Mapping Regional Turbulent Heat Fluxes via Assimilation of MODIS Land Surface Temperature Data into an Ensemble Kalman Smoother Framework. Earth and Space Science, 2019, 6, 2423-2442.	1.1	10
51	Long-Term Spatiotemporal Dynamics of Terrestrial Biophysical Variables in the Three-River Headwaters Region of China from Satellite and Meteorological Datasets. Remote Sensing, 2019, 11, 1633.	1.8	9
52	Assessment and improvement of Noah-MP for simulating water and heat exchange over alpine grassland in growing season. Science China Earth Sciences, 2022, 65, 536-552.	2.3	9
53	Long-Term Spatiotemporal Variations in Soil Moisture in North East China Based on 1-km Resolution Downscaled Passive Microwave Soil Moisture Products. Sensors, 2019, 19, 3527.	2.1	8
54	Evaluating Spatial Heterogeneity of Land Surface Hydrothermal Conditions in the Heihe River Basin. Chinese Geographical Science, 2020, 30, 855-875.	1.2	8

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55	Modeling Transpiration with Sun-Induced Chlorophyll Fluorescence Observations via Carbon-Water Coupling Methods. Remote Sensing, 2021, 13, 804.	1.8	8
56	A new global gridded sea surface temperature data product based on multisource data. Earth System Science Data, 2021, 13, 2111-2134.	3.7	8
57	Estimating river accommodation capacity for organic pollutants in data-scarce areas. Journal of Hydrology, 2018, 564, 442-451.	2.3	7
58	Spatiotemporal Change Analysis of Soil Moisture Based on Downscaling Technology in Africa. Water (Switzerland), 2022, 14, 74.	1.2	6
59	Estimation of Turbulent Heat Fluxes and Gross Primary Productivity by Assimilating Land Surface Temperature and Leaf Area Index. Water Resources Research, 0, , .	1.7	5
60	Diagnosing the Temperature Sensitivity of Ecosystem Respiration in Northern High‐Latitude Regions. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005998.	1.3	3
61	Reconstruction of remotely sensed daily evapotranspiration data in cloudy-sky conditions. Agricultural Water Management, 2021, 255, 107000.	2.4	3
62	Regional climate change after the commissioning of the Three Gorges Dam: a case study for the middle reaches of the Yangtze River. Climate Research, 2018, 75, 33-51.	0.4	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. Environmental Science and Pollution Research, 2022, 29, 16123-16137.	2.7	3
64	Factors driving temporospatial heterogeneity of fish community health in Jinan City, China. Marine and Freshwater Research, 2019, 70, 637.	0.7	2
65	Feasibility of Estimating Turbulent Heat Fluxes via Variational Assimilation of Reference-Level Air Temperature and Specific Humidity Observations. Remote Sensing, 2020, 12, 1065.	1.8	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. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102879.	0.9	0