Tongren Xu

List of Publications by Year
in descending order

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		201674	206112
67	2,478	27	48
papers	citations	h-index	g-index

68	68	68	1882
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Estimation of CO2 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.	5.3	3
2	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.	5.2	9
3	Spatiotemporal Change Analysis of Soil Moisture Based on Downscaling Technology in Africa. Water (Switzerland), 2022, 14, 74.	2.7	6
4	Dataset of daily near-surface air temperature in China from 1979 to 2018. Earth System Science Data, 2022, 14, 1413-1432.	9.9	26
5	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.	1.9	0
6	Improving predictions of evapotranspiration by integrating multi-source observations and land surface model. Agricultural Water Management, 2022, 272, 107827.	5.6	12
7	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.	8.0	48
8	Modeling Transpiration with Sun-Induced Chlorophyll Fluorescence Observations via Carbon-Water Coupling Methods. Remote Sensing, 2021, 13, 804.	4.0	8
9	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.	11.0	41
10	Diagnosing the Temperature Sensitivity of Ecosystem Respiration in Northern Highâ€Latitude Regions. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005998.	3.0	3
11	A new global gridded sea surface temperature data product based on multisource data. Earth System Science Data, 2021, 13, 2111-2134.	9.9	8
12	Improve the Performance of the Noahâ€MPâ€Crop Model by Jointly Assimilating Soil Moisture and Vegetation Phenology Data. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002394.	3.8	15
13	Evapotranspiration partitioning for multiple ecosystems within a dryland watershed: Seasonal variations and controlling factors. Journal of Hydrology, 2021, 598, 126483.	5.4	24
14	Reconstruction of remotely sensed daily evapotranspiration data in cloudy-sky conditions. Agricultural Water Management, 2021, 255, 107000.	5.6	3
15	Upscaling Evapotranspiration from a Single-Site to Satellite Pixel Scale. Remote Sensing, 2021, 13, 4072.	4.0	12
16	Global Food Security Assessment during 1961â€“2019. Sustainability, 2021, 13, 14005.	3.2	14
17	Responses of Water Use Efficiency to Drought in Southwest China. Remote Sensing, 2020, 12, 199.	4.0	45
18	Evaluating Spatial Heterogeneity of Land Surface Hydrothermal Conditions in the Heihe River Basin. Chinese Geographical Science, 2020, 30, 855-875.	3.0	8

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19	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.	4.0	11
20	Investigating microclimate effects in an oasis-desert interaction zone. Agricultural and Forest Meteorology, 2020, 290, 107992.	4.8	13
21	Mapping regional evapotranspiration in cloudy skies via variational assimilation of all-weather land surface temperature observations. Journal of Hydrology, 2020, 585, 124790.	5.4	24
22	A Bayesian Three-Cornered Hat (BTCH) Method: Improving the Terrestrial Evapotranspiration Estimation. Remote Sensing, 2020, 12, 878.	4.0	24
23	Analysis of the Spatiotemporal Change in Land Surface Temperature for a Long-Term Sequence in Africa (2003â€“2017). Remote Sensing, 2020, 12, 488.	4.0	33
24	Estimation of surface heat fluxes using multi-angular observations of radiative surface temperature. Remote Sensing of Environment, 2020, 239, 111674.	11.0	14
25	Feasibility of Estimating Turbulent Heat Fluxes via Variational Assimilation of Reference-Level Air Temperature and Specific Humidity Observations. Remote Sensing, 2020, 12, 1065.	4.0	1
26	Exploring evapotranspiration changes in a typical endorheic basin through the integrated observatory network. Agricultural and Forest Meteorology, 2020, 290, 108010.	4.8	34
27	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.	3.8	8
28	Deep Learning Convolutional Neural Network for the Retrieval of Land Surface Temperature from AMSR2 Data in China. Sensors, 2019, 19, 2987.	3.8	32
29	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.	4.0	9
30	Quality suitability modeling of volatile oil in Chinese Materia Medica â€“ 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.	5.2	12
31	Evaluation of twelve evapotranspiration products from machine learning, remote sensing and land surface models over conterminous United States. Journal of Hydrology, 2019, 578, 124105.	5.4	92
32	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.	8.0	17
33	Regional and Global Land Data Assimilation Systems: Innovations, Challenges, and Prospects. Journal of Meteorological Research, 2019, 33, 159-189.	2.4	63
34	Factors driving temporospatial heterogeneity of fish community health in Jinan City, China. Marine and Freshwater Research, 2019, 70, 637.	1.3	2
35	Changes in Global Cloud Cover Based on Remote Sensing Data from 2003 to 2012. Chinese Geographical Science, 2019, 29, 306-315.	3.0	32
36	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.	2.6	10

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37	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.	11.0	59
38	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.	3.3	24
39	Retrieval of Land-surface Temperature from AMSR2 Data Using a Deep Dynamic Learning Neural Network. Chinese Geographical Science, 2018, 28, 1-11.	3.0	27
40	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.	7.7	23
41	Evaluation of the Weak Constraint Data Assimilation Approach for Estimating Turbulent Heat Fluxes at Six Sites. Remote Sensing, 2018, 10, 1994.	4.0	16
42	The Heihe Integrated Observatory Network: A Basinâ€Scale Land Surface Processes Observatory in China. Vadose Zone Journal, 2018, 17, 1-21.	2.2	258
43	Monitoring and validating spatially and temporally continuous daily evaporation and transpiration at river basin scale. Remote Sensing of Environment, 2018, 219, 72-88.	11.0	82
44	A soil moisture estimation framework based on the CART algorithm and its application in China. Journal of Hydrology, 2018, 563, 65-75.	5.4	45
45	Intercomparison of Six Upscaling Evapotranspiration Methods: From Site to the Satellite Pixel. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6777-6803.	3.3	50
46	Estimating river accommodation capacity for organic pollutants in data-scarce areas. Journal of Hydrology, 2018, 564, 442-451.	5.4	7
47	Wind Dynamics Over a Highly Heterogeneous Oasis Area: An Experimental and Numerical Study. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8418-8440.	3.3	11
48	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.	3.3	141
49	SPI-Based Analyses of Drought Changes over the Past 60 Years in Chinaâ€™s Major Crop-Growing Areas. Remote Sensing, 2018, 10, 171.	4.0	28
50	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.	11.0	120
51	Forecasting daily streamflow values: assessing heuristic models. Hydrology Research, 2018, 49, 658-669.	2.7	29
52	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.	1.1	3
53	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.	1.9	27
54	Quantification of the Scale Effect in Downscaling Remotely Sensed Land Surface Temperature. Remote Sensing, 2016, 8, 975.	4.0	37

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55	Upscaling evapotranspiration measurements from multi-site to the satellite pixel scale over heterogeneous land surfaces. Agricultural and Forest Meteorology, 2016, 230-231, 97-113.	4.8	180
56	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.	5.4	64
57	Partitioning Evapotranspiration into Soil Evaporation and Canopy Transpiration via a Two-Source Variational Data Assimilation System. Journal of Hydrometeorology, 2016, 17, 2353-2370.	1.9	41
58	Scaling Flux Tower Observations of Sensible Heat Flux Using Weighted Area-to-Area Regression Kriging. Atmosphere, 2015, 6, 1032-1044.	2.3	13
59	Temporal Upscaling and Reconstruction of Thermal Remotely Sensed Instantaneous Evapotranspiration. Remote Sensing, 2015, 7, 3400-3425.	4.0	47
60	A dual-pass data assimilation scheme for estimating surface fluxes with FY3A-VIRR land surface temperature. Science China Earth Sciences, 2015, 58, 211-230.	5.2	20
61	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.	3.1	22
62	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.	3.3	47
63	Remote Sensing Data Products for Land Surface Data Assimilation System Application. , 2013, , 3-43.		0
64	Intercomparison of surface energy flux measurement systems used during the HiWATERâ€MUSOEXE. Journal of Geophysical Research D: Atmospheres, 2013, 118, 13,140.	3.3	239
65	Estimating turbulent fluxes through assimilation of geostationary operational environmental satellites data using ensemble Kalman filter. Journal of Geophysical Research, 2011, 116, .	3.3	39
66	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.	1.9	56
67	Estimation of Turbulent Heat Fluxes and Gross Primary Productivity by Assimilating Land Surface Temperature and Leaf Area Index. Water Resources Research, 0, , .	4.2	5