

Shaomin Liu

List of Publications by Year in descending order

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113
papers

5,752
citations

81743

39
h-index

79541

73
g-index

114
all docs

114
docs citations

114
times ranked

3966
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.3	9
2	Applications of a thermal-based two-source energy balance model coupled to surface soil moisture. <i>Remote Sensing of Environment</i> , 2022, 271, 112923.	4.6	18
3	Applying a Wavelet Transform Technique to Optimize General Fitting Models for SM Analysis: A Case Study in Downscaling over the Qinghai-Tibet Plateau. <i>Remote Sensing</i> , 2022, 14, 3063.	1.8	9
4	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.	0.9	0
5	Improving predictions of evapotranspiration by integrating multi-source observations and land surface model. <i>Agricultural Water Management</i> , 2022, 272, 107827.	2.4	12
6	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.	3.9	48
7	Modeling Transpiration with Sun-Induced Chlorophyll Fluorescence Observations via Carbon-Water Coupling Methods. <i>Remote Sensing</i> , 2021, 13, 804.	1.8	8
8	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.	4.6	41
9	Diagnosing the Temperature Sensitivity of Ecosystem Respiration in Northern High-Latitude Regions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005998.	1.3	3
10	Improve the Performance of the Noah-CMP-Crop Model by Jointly Assimilating Soil Moisture and Vegetation Phenology Data. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002394.	1.3	15
11	Evapotranspiration partitioning for multiple ecosystems within a dryland watershed: Seasonal variations and controlling factors. <i>Journal of Hydrology</i> , 2021, 598, 126483.	2.3	24
12	Simulating Airflow Around Flexible Vegetative Windbreaks. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034578.	1.2	3
13	Reconstruction of remotely sensed daily evapotranspiration data in cloudy-sky conditions. <i>Agricultural Water Management</i> , 2021, 255, 107000.	2.4	3
14	Estimating Corn Canopy Water Content From Normalized Difference Water Index (NDWI): An Optimized NDWI-Based Scheme and Its Feasibility for Retrieving Corn VWC. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 8168-8181.	2.7	12
15	Continuous evaluation of the spatial representativeness of land surface temperature validation sites. <i>Remote Sensing of Environment</i> , 2021, 265, 112669.	4.6	21
16	Upscaling Evapotranspiration from a Single-Site to Satellite Pixel Scale. <i>Remote Sensing</i> , 2021, 13, 4072.	1.8	12
17	A Satellite-Based Method for National Winter Wheat Yield Estimating in China. <i>Remote Sensing</i> , 2021, 13, 4680.	1.8	13
18	Responses of Water Use Efficiency to Drought in Southwest China. <i>Remote Sensing</i> , 2020, 12, 199.	1.8	45

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19	Impact of Lake/Reservoir Expansion and Shrinkage on Energy and Water Vapor Fluxes in the Surrounding Area. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032833.	1.2	18
20	Evaluating Spatial Heterogeneity of Land Surface Hydrothermal Conditions in the Heihe River Basin. <i>Chinese Geographical Science</i> , 2020, 30, 855-875.	1.2	8
21	Investigating microclimate effects in an oasis-desert interaction zone. <i>Agricultural and Forest Meteorology</i> , 2020, 290, 107992.	1.9	13
22	Estimation of Daily Terrestrial Latent Heat Flux with High Spatial Resolution from MODIS and Chinese GF-1 Data. <i>Sensors</i> , 2020, 20, 2811.	2.1	10
23	Mapping regional evapotranspiration in cloudy skies via variational assimilation of all-weather land surface temperature observations. <i>Journal of Hydrology</i> , 2020, 585, 124790.	2.3	24
24	A Bayesian Three-Cornered Hat (BTCH) Method: Improving the Terrestrial Evapotranspiration Estimation. <i>Remote Sensing</i> , 2020, 12, 878.	1.8	24
25	Estimation of surface heat fluxes using multi-angular observations of radiative surface temperature. <i>Remote Sensing of Environment</i> , 2020, 239, 111674.	4.6	14
26	Exploring evapotranspiration changes in a typical endorheic basin through the integrated observatory network. <i>Agricultural and Forest Meteorology</i> , 2020, 290, 108010.	1.9	34
27	Integrating Latent Heat Flux Products from MODIS and Landsat Data Using Multi-Resolution Kalman Filter Method in the Midstream of Heihe River Basin of Northwest China. <i>Remote Sensing</i> , 2019, 11, 1787.	1.8	2
28	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.	2.3	92
29	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.	3.9	17
30	Component radiative temperatures over sparsely vegetated surfaces and their potential for upscaling land surface temperature. <i>Agricultural and Forest Meteorology</i> , 2019, 276-277, 107600.	1.9	11
31	Rebuilding a Microwave Soil Moisture Product Using Random Forest Adopting AMSR-E/AMSR2 Brightness Temperature and SMAP over the Qinghai-Tibet Plateau, China. <i>Remote Sensing</i> , 2019, 11, 683.	1.8	43
32	Evaluation of SMAP, SMOS-IC, FY3B, JAXA, and LPRM Soil Moisture Products over the Qinghai-Tibet Plateau and Its Surrounding Areas. <i>Remote Sensing</i> , 2019, 11, 792.	1.8	49
33	Micrometeorological Methods to Determine Evapotranspiration. <i>Ecohydrology</i> , 2019, , 201-239.	0.2	0
34	A Method Based on Temporal Component Decomposition for Estimating 1-km All-Weather Land Surface Temperature by Merging Satellite Thermal Infrared and Passive Microwave Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 4670-4691.	2.7	97
35	Correction to "A Method Based on Temporal Component Decomposition for Estimating 1-km All-Weather Land Surface Temperature by Merging Satellite Thermal Infrared and Passive Microwave Observations" [Feb 19 4670-4691]. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 6254-6254.	2.7	3
36	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.	1.1	10

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37	Merging the MODIS and Landsat Terrestrial Latent Heat Flux Products Using the Multiresolution Tree Method. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 2811-2823.	2.7	11
38	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.	4.6	59
39	Uneven winter snow influence on tree growth across temperate China. <i>Global Change Biology</i> , 2019, 25, 144-154.	4.2	39
40	Integrated hydrometeorological, snow and frozen-ground observations in the alpine region of the Heihe River Basin, China. <i>Earth System Science Data</i> , 2019, 11, 1483-1499.	3.7	79
41	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.	1.2	24
42	Hydrological Cycle in the Heihe River Basin and Its Implication for Water Resource Management in Endorheic Basins. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 890-914.	1.2	189
43	Weakening Relationship Between Vegetation Growth Over the Tibetan Plateau and Large-scale Climate Variability. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2018, 123, 1247-1259.	1.3	19
44	Differentiating drought legacy effects on vegetation growth over the temperate Northern Hemisphere. <i>Global Change Biology</i> , 2018, 24, 504-516.	4.2	233
45	Evaluation of the Weak Constraint Data Assimilation Approach for Estimating Turbulent Heat Fluxes at Six Sites. <i>Remote Sensing</i> , 2018, 10, 1994.	1.8	16
46	The Heihe Integrated Observatory Network: A Basin-scale Land Surface Processes Observatory in China. <i>Vadose Zone Journal</i> , 2018, 17, 1-21.	1.3	258
47	A long-term 0.01° surface air temperature dataset of Tibetan Plateau. <i>Data in Brief</i> , 2018, 20, 748-752.	0.5	6
48	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.	4.6	82
49	Satellite Detection of Water Stress Effects on Terrestrial Latent Heat Flux With MODIS Shortwave Infrared Reflectance Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,410.	1.2	10
50	A Parameterized Multiangular Microwave Emission Model of L-, C-, and X-Bands for Corn Considering Multiple-Scattering Effects. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, 15, 1249-1253.	1.4	2
51	Downscaling of surface air temperature over the Tibetan Plateau based on DEM. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 73, 136-147.	1.4	32
52	Intercomparison of Six Upscaling Evapotranspiration Methods: From Site to the Satellite Pixel. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6777-6803.	1.2	50
53	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.	1.2	11
54	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.	1.2	141

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55	Micrometeorological Methods to Determine Evapotranspiration. <i>Ecohydrology</i> , 2018, , 1-39.	0.2	5
56	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.	4.6	120
57	Micrometeorological Methods to Determine Evapotranspiration. <i>Ecohydrology</i> , 2018, , 1-39.	0.2	1
58	Improving global terrestrial evapotranspiration estimation using support vector machine by integrating three process-based algorithms. <i>Agricultural and Forest Meteorology</i> , 2017, 242, 55-74.	1.9	96
59	A simple temperature domain two-source model for estimating agricultural field surface energy fluxes from Landsat images. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5211-5236.	1.2	43
60	A multiscale dataset for understanding complex eco-hydrological processes in a heterogeneous oasis system. <i>Scientific Data</i> , 2017, 4, 170083.	2.4	109
61	Assessment of the Energy Balance Closure under Advective Conditions and Its Impact Using Remote Sensing Data. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 127-140.	0.6	79
62	Quantification of the Scale Effect in Downscaling Remotely Sensed Land Surface Temperature. <i>Remote Sensing</i> , 2016, 8, 975.	1.8	37
63	Validation of Regional-Scale Remote Sensing Products in China: From Site to Network. <i>Remote Sensing</i> , 2016, 8, 980.	1.8	25
64	A framework for validating remotely sensed evapotranspiration. , 2016, , .		1
65	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.	1.9	180
66	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.	2.3	64
67	A new model for the automatic relative radiometric normalization of multiple images with pseudo-invariant features. <i>International Journal of Remote Sensing</i> , 2016, 37, 4554-4573.	1.3	27
68	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.	0.7	41
69	Retrieving high-resolution surface solar radiation with cloud parameters derived by combining MODIS and MTSAT data. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2543-2557.	1.9	78
70	Application of remote sensing-based two-source energy balance model for mapping field surface fluxes with composite and component surface temperatures. <i>Agricultural and Forest Meteorology</i> , 2016, 230-231, 8-19.	1.9	80
71	Assessment and simulation of global terrestrial latent heat flux by synthesis of CMIP5 climate models and surface eddy covariance observations. <i>Agricultural and Forest Meteorology</i> , 2016, 223, 151-167.	1.9	25
72	Scaling Flux Tower Observations of Sensible Heat Flux Using Weighted Area-to-Area Regression Kriging. <i>Atmosphere</i> , 2015, 6, 1032-1044.	1.0	13

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73	Temporal Upscaling and Reconstruction of Thermal Remotely Sensed Instantaneous Evapotranspiration. <i>Remote Sensing</i> , 2015, 7, 3400-3425.	1.8	47
74	Using the Surface Temperature-Albedo Space to Separate Regional Soil and Vegetation Temperatures from ASTER Data. <i>Remote Sensing</i> , 2015, 7, 5828-5848.	1.8	14
75	Validation and Performance Evaluations of Methods for Estimating Land Surface Temperatures from ASTER Data in the Middle Reach of the Heihe River Basin, Northwest China. <i>Remote Sensing</i> , 2015, 7, 7126-7156.	1.8	29
76	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.	2.3	20
77	Estimations of Regional Surface Energy Fluxes Over Heterogeneous Oasisâ€œDesert Surfaces in the Middle Reaches of the Heihe River During HiWATER-MUSOEXE. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 671-675.	1.4	40
78	Characterizing the Footprint of Eddy Covariance System and Large Aperture Scintillometer Measurements to Validate Satellite-Based Surface Fluxes. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 943-947.	1.4	33
79	Upscaling Sensible Heat Fluxes With Area-to-Area Regression Kriging. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 656-660.	1.4	24
80	Estimating and Validating Soil Evaporation and Crop Transpiration During the HiWATER-MUSOEXE. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 334-338.	1.4	21
81	Assessment of Uncertainties in Eddy Covariance Flux Measurement Based on Intensive Flux Matrix of HiWATER-MUSOEXE. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 259-263.	1.4	59
82	Estimation of evapotranspiration over the terrestrial ecosystems in China. <i>Ecohydrology</i> , 2014, 7, 139-149.	1.1	45
83	Estimating the spatial distribution of soil moisture based on Bayesian maximum entropy method with auxiliary data from remote sensing. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014, 32, 54-66.	1.4	53
84	Improvements in land surface temperature retrieval based on atmospheric water vapour content and atmospheric temperature. <i>International Journal of Remote Sensing</i> , 2014, 35, 4881-4904.	1.3	2
85	Satellite-Based Analysis of Evapotranspiration and Water Balance in the Grassland Ecosystems of Dryland East Asia. <i>PLoS ONE</i> , 2014, 9, e97295.	1.1	26
86	MODIS-driven estimation of terrestrial latent heat flux in China based on a modified Priestleyâ€œTaylor algorithm. <i>Agricultural and Forest Meteorology</i> , 2013, 171-172, 187-202.	1.9	193
87	Preliminary validation of GLASS-DSSR products using surface measurements collected in arid and semi-arid regions of China. <i>International Journal of Digital Earth</i> , 2013, 6, 50-68.	1.6	16
88	Heihe Watershed Allied Telemetry Experimental Research (HiWATER): Scientific Objectives and Experimental Design. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1145-1160.	1.7	705
89	Intercomparison of evapotranspiration models using remote sensing data and ground measurements during the MUSOEXE-12 campaign. , 2013, , .		1
90	Intercomparison of surface energy flux measurement systems used during the HiWATERâ€œMUSOEXE. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13,140.	1.2	239

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91	Satellite detection of increases in global land surface evapotranspiration during 1984â€“2007. International Journal of Digital Earth, 2012, 5, 299-318.	1.6	19
92	Estimation of net surface shortwave radiation from MODIS data. International Journal of Remote Sensing, 2012, 33, 804-825.	1.3	34
93	Validation of remotely sensed evapotranspiration over the Hai River Basin, China. Journal of Geophysical Research, 2012, 117, .	3.3	167
94	Estimating turbulent fluxes through assimilation of geostationary operational environmental satellites data using ensemble Kalman filter. Journal of Geophysical Research, 2011, 116, .	3.3	39
95	A LUT-based approach to estimate surface solar irradiance by combining MODIS and MTSAT data. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	56
96	Evaluation of EDI derived from the exponential evapotranspiration model for monitoring Chinaâ€™s surface drought. Environmental Earth Sciences, 2011, 63, 425-436.	1.3	22
97	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
98	The characteristics and parameterization of aerodynamic roughness length over heterogeneous surfaces. Advances in Atmospheric Sciences, 2009, 26, 180-190.	1.9	24
99	Watershed Allied Telemetry Experimental Research. Journal of Geophysical Research, 2009, 114, .	3.3	295
100	Turbulent Flux Transfer over Bare-Soil Surfaces: Characteristics and Parameterization. Journal of Applied Meteorology and Climatology, 2008, 47, 276-290.	0.6	163
101	Estimation of Regional Evapotranspiration by TM/ETM+ Data over Heterogeneous Surfaces. Photogrammetric Engineering and Remote Sensing, 2007, 73, 1169-1178.	0.3	31
102	Evaluating parameterizations of aerodynamic resistance to heat transfer using field measurements. Hydrology and Earth System Sciences, 2007, 11, 769-783.	1.9	139
103	Application of ensemble kalman filter to geophysical parameters retrieval in remote sensing: A case study of kernel-driven BRDF model inversion. Science in China Series D: Earth Sciences, 2006, 49, 632-640.	0.9	8
104	Study on NDVI-T s space by combining LAI and evapotranspiration. Science in China Series D: Earth Sciences, 2006, 49, 747-754.	0.9	22
105	Evaluation of three complementary relationship approaches for evapotranspiration over the Yellow River basin. Hydrological Processes, 2006, 20, 2347-2361.	1.1	38
106	A conception of digital agriculture. , 0, , .		15
107	An intercomparison study on models of estimating the aerodynamic resistance. , 0, , .		1
108	Studies on methods for quality assessment of crop spectral data. , 0, , .		0

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109	A simple interpretation of NDVI-Ts space combining LAI and evapotranspiration. , 0, , .		0
110	Comparison of different complementary relationship models for estimating regional evapotranspiration. , 0, , .		1
111	Estimation of regional evapotranspiration in the mu us sandland. , 0, , .		0
112	A study of soil heat flux. , 0, , .		0
113	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