Jianzhi Dong

List of Publications by Year
in descending order

46 papers	1,044 citations	361045 20 h-index	454577 30 g-index
46 all docs	46 docs citations	46 times ranked	989 citing authors

#	Article	IF	Citations
1	Land transpiration-evaporation partitioning errors responsible for modeled summertime warm bias in the central United States. Nature Communications, 2022, 13, 336.	5.8	25
2	Assessing Performances of Multivariate Data Assimilation Algorithms with SMOS, SMAP, and GRACE Observations for Improved Soil Moisture and Groundwater Analyses. Water (Switzerland), 2022, 14, 621.	1.2	1
3	Can Surface Soil Moisture Information Identify Evapotranspiration Regime Transitions?. Geophysical Research Letters, 2022, 49, .	1.5	15
4	Identification of varied soil hydraulic properties in a seasonal tropical rainforest. Catena, 2022, 212, 106104.	2.2	3
5	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
6	Improving soil moisture assimilation efficiency via model calibration using SMAP surface soil moisture climatology information. Remote Sensing of Environment, 2022, 280, 113161.	4.6	2
7	The benefit of brightness temperature assimilation for the SMAP Level-4 surface and root-zone soil moisture analysis. Hydrology and Earth System Sciences, 2021, 25, 1569-1586.	1.9	12
8	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
9	A Triple Collocation-Based Comparison of Three L-Band Soil Moisture Datasets, SMAP, SMOS-IC, and SMOS, Over Varied Climates and Land Covers. Frontiers in Water, 2021, 3, .	1.0	7
10	A triple collocation-based 2D soil moisture merging methodology considering spatial and temporal non-stationary errors. Remote Sensing of Environment, 2021, 263, 112509.	4.6	15
11	Comparison of traditional method and triple collocation analysis for evaluation of multiple gridded precipitation products across Germany. Journal of Hydrometeorology, 2021, , .	0.7	4
12	Expanding the Application of Soil Moisture Monitoring Systems through Regression-Based Transformation. Journal of Hydrometeorology, 2021, 22, 2601-2615.	0.7	0
13	Data assimilation of high-resolution thermal and radar remote sensing retrievals for soil moisture monitoring in a drip-irrigated vineyard. Remote Sensing of Environment, 2020, 239, 111622.	4.6	46
14	Multivariate data assimilation of GRACE, SMOS, SMAP measurements for improved regional soil moisture and groundwater storage estimates. Advances in Water Resources, 2020, 135, 103477.	1.7	47
15	An instrument variable based algorithm for estimating cross-correlated hydrological remote sensing errors. Journal of Hydrology, 2020, 581, 124413.	2.3	20
16	Soil Evaporation Stress Determines Soil Moistureâ€Evapotranspiration Coupling Strength in Land Surface Modeling. Geophysical Research Letters, 2020, 47, e2020GL090391.	1.5	27
17	Stepwise modeling and the importance of internal variables validation to test model realism in a data scarce glacier basin. Journal of Hydrology, 2020, 591, 125457.	2.3	19
18	Long-Term Trends in Root-Zone Soil Moisture across CONUS Connected to ENSO. Remote Sensing, 2020, 12, 2037.	1.8	4

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19	Global scale error assessments of soil moisture estimates from microwave-based active and passive satellites and land surface models over forest and mixed irrigated/dryland agriculture regions. Remote Sensing of Environment, 2020, 251, 112052.	4.6	63
20	Improving Spatial Patterns Prior to Land Surface Data Assimilation via Model Calibration Using SMAP Surface Soil Moisture Data. Water Resources Research, 2020, 56, e2020WR027770.	1.7	19
21	Triple Collocation Based Multi-Source Precipitation Merging. Frontiers in Water, 2020, 2, .	1.0	26
22	Spatially Explicit Model for Statistical Downscaling of Satellite Passive Microwave Soil Moisture. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1182-1191.	2.7	20
23	Comparison of microwave remote sensing and land surface modeling for surface soil moisture climatology estimation. Remote Sensing of Environment, 2020, 242, 111756.	4.6	73
24	Soil Moistureâ€"Evapotranspiration Overcoupling and L-Band Brightness Temperature Assimilation: Sources and Forecast Implications. Journal of Hydrometeorology, 2020, 21, 2359-2374.	0.7	21
25	Improving Rain/No-Rain Detection Skill by Merging Precipitation Estimates from Different Sources. Journal of Hydrometeorology, 2020, 21, 2419-2429.	0.7	9
26	Model representation of the coupling between evapotranspiration and soil water content at different depths. Hydrology and Earth System Sciences, 2020, 24, 581-594.	1.9	11
27	Validation of a New Root-Zone Soil Moisture Product: Soil MERGE. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3351-3365.	2.3	23
28	A Global Assessment of Added Value in the SMAP Level 4 Soil Moisture Product Relative to Its Baseline Land Surface Model. Geophysical Research Letters, 2019, 46, 6604-6613.	1.5	31
29	A double instrumental variable method for geophysical product error estimation. Remote Sensing of Environment, 2019, 225, 217-228.	4.6	36
30	Impact of Soil Moisture Data Resolution on Soil Moisture and Surface Heat Flux Estimates through Data Assimilation: A Case Study in the Southern Great Plains. Journal of Hydrometeorology, 2019, 20, 715-730.	0.7	8
31	Temporal Changes in Chinaâ€™s Air Temperature Distribution and Its Impact on Hot Extreme Occurrence. Atmosphere, 2019, 10, 748.	1.0	0
32	L-band remote-sensing increases sampled levels of global soil moisture-air temperature coupling strength. Remote Sensing of Environment, 2019, 220, 51-58.	4.6	14
33	Adapting & testing use of USLE K factor for agricultural soils in China. Agriculture, Ecosystems and Environment, 2019, 269, 148-155.	2.5	51
34	The Error Structure of the SMAP Single and Dual Channel Soil Moisture Retrievals. Geophysical Research Letters, 2018, 45, 758-765.	1.5	37
35	Use of Satellite Soil Moisture to Diagnose Climate Model Representations of European Soil Moistureâ€Air Temperature Coupling Strength. Geophysical Research Letters, 2018, 45, 12,884.	1.5	15
36	The Added Value of Assimilating Remotely Sensed Soil Moisture for Estimating Summertime Soil Moistureâ€Air Temperature Coupling Strength. Water Resources Research, 2018, 54, 6072-6084.	1.7	28

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37	An Improved Triple Collocation Analysis Algorithm for Decomposing Autocorrelated and White Soil Moisture Retrieval Errors. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,081.	1.2	24
38	Factors Controlling Temporal Stability of Surface Soil Moisture: A Watershedâ€Scale Modeling Study. Vadose Zone Journal, 2017, 16, 1-15.	1.3	6
39	The Impacts of Heating Strategy on Soil Moisture Estimation Using Actively Heated Fiber Optics. Sensors, 2017, 17, 2102.	2.1	13
40	Determining soil moisture and soil properties in vegetated areas by assimilating soil temperatures. Water Resources Research, 2016, 52, 4280-4300.	1.7	32
41	Estimating surface turbulent heat fluxes from land surface temperature and soil moisture observations using the particle batch smoother. Water Resources Research, 2016, 52, 9086-9108.	1.7	26
42	Mapping highâ€resolution soil moisture and properties using distributed temperature sensing data and an adaptive particle batch smoother. Water Resources Research, 2016, 52, 7690-7710.	1.7	16
43	Estimating soil moisture and soil thermal and hydraulic properties by assimilating soil temperatures using a particle batch smoother. Advances in Water Resources, 2016, 91, 104-116.	1.7	22
44	A particle batch smoother for soil moisture estimation using soil temperature observations. Advances in Water Resources, 2015, 83, 111-122.	1.7	47
45	Determining soil moisture by assimilating soil temperature measurements using the Ensemble Kalman Filter. Advances in Water Resources, 2015, 86, 340-353.	1.7	25
46	Runoff and soil erosion from highway construction spoil deposits: A rainfall simulation study. Transportation Research, Part D: Transport and Environment, 2012, 17, 8-14.	3.2	45