

# Wade Crow

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

187  
papers

9,976  
citations

52  
h-index

96  
g-index

212  
ext. papers

11,887  
ext. citations

5.8  
avg, IF

6.44  
L-index

#	Paper	IF	Citations
187	Land transpiration-evaporation partitioning errors responsible for modeled summertime warm bias in the central United States.. <i>Nature Communications</i> , <b>2022</b> , 13, 336	17.4	6
186	Validation of Soil Moisture Data Products From the NASA SMAP Mission. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2022</b> , 15, 364-392	4.7	9
185	Can Surface Soil Moisture Information Identify Evapotranspiration Regime Transitions?. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	2
184	Quasi-global machine learning-based soil moisture estimates at high spatio-temporal scales using CYGNSS and SMAP observations. <i>Remote Sensing of Environment</i> , <b>2022</b> , 276, 113041	13.2	2
183	Comprehensive Evaluation and Error-Component Analysis of Four Satellite-Based Precipitation Estimates against Gauged Rainfall over Mainland China. <i>Advances in Meteorology</i> , <b>2022</b> , 2022, 1-29	1.7	0
182	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2021</b> , 1-1	4.7	3
181	The benefit of brightness temperature assimilation for the SMAP Level-4 surface and root-zone soil moisture analysis. <i>Hydrology and Earth System Sciences</i> , <b>2021</b> , 25, 1569-1586	5.5	4
180	Assimilation of Satellite Soil Moisture Products for River Flow Prediction: An Extensive Experiment in Over 700 Catchments Throughout Europe. <i>Water Resources Research</i> , <b>2021</b> , 57, e2021WR029643	5.4	1
179	Assessment of SMOS and SMAP soil moisture products against new estimates combining physical model, a statistical model, and in-situ observations: A case study over the Huai River Basin, China. <i>Journal of Hydrology</i> , <b>2021</b> , 598, 126468	6	2
178	A roadmap for high-resolution satellite soil moisture applications confronting product characteristics with user requirements. <i>Remote Sensing of Environment</i> , <b>2021</b> , 252, 112162	13.2	38
177	Root Zone Soil Moisture Comparisons: AirMOSS, SMERGE, and SMAP. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-5	4.1	
176	The Contributions of Gauge-Based Precipitation and SMAP Brightness Temperature Observations to the Skill of the SMAP Level-4 Soil Moisture Product. <i>Journal of Hydrometeorology</i> , <b>2021</b> , 22, 405-424	3.7	6
175	Enhanced Large-Scale Validation of Satellite-Based Land Rainfall Products. <i>Journal of Hydrometeorology</i> , <b>2021</b> , 22, 245-257	3.7	7
174	A triple collocation-based 2D soil moisture merging methodology considering spatial and temporal non-stationary errors. <i>Remote Sensing of Environment</i> , <b>2021</b> , 263, 112509	13.2	4
173	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> , <b>2021</b> , 59, 8168-8181	8.1	2
172	Expanding the Application of Soil Moisture Monitoring Systems through Regression-Based Transformation. <i>Journal of Hydrometeorology</i> , <b>2021</b> , 22, 2601-2615	3.7	
171	Retrieving global surface soil moisture from GRACE satellite gravity data. <i>Journal of Hydrology</i> , <b>2020</b> , 584, 124717	6	15

170	Dual state/rainfall correction via soil moisture assimilation for improved streamflow simulation: evaluation of a large-scale implementation with Soil Moisture Active Passive (SMAP) satellite data. <i>Hydrology and Earth System Sciences</i> , <b>2020</b> , 24, 615-631	5.5	6
169	A Unified Data-Driven Method to Derive Hydrologic Dynamics From Global SMAP Surface Soil Moisture and GPM Precipitation Data. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR024949	5.4	5
168	Comparison of microwave remote sensing and land surface modeling for surface soil moisture climatology estimation. <i>Remote Sensing of Environment</i> , <b>2020</b> , 242, 111756	13.2	39
167	Agricultural Drought Monitoring via the Assimilation of SMAP Soil Moisture Retrievals Into a Global Soil Water Balance Model. <i>Frontiers in Big Data</i> , <b>2020</b> , 3, 10	2.8	19
166	Soil Moisture-Evapotranspiration Overcoupling and L-Band Brightness Temperature Assimilation: Sources and Forecast Implications. <i>Journal of Hydrometeorology</i> , <b>2020</b> , 21, 2359-2374	3.7	8
165	Improving Rain/No-Rain Detection Skill by Merging Precipitation Estimates from Different Sources. <i>Journal of Hydrometeorology</i> , <b>2020</b> , 21, 2419-2429	3.7	2
164	Model representation of the coupling between evapotranspiration and soil water content at different depths. <i>Hydrology and Earth System Sciences</i> , <b>2020</b> , 24, 581-594	5.5	9
163	Data Assimilation of High-Resolution Thermal and Radar Remote Sensing Retrievals for Soil Moisture Monitoring in a Drip-Irrigated Vineyard. <i>Remote Sensing of Environment</i> , <b>2020</b> , 239,	13.2	24
162	Global Estimates of Land Surface Water Fluxes from SMOS and SMAP Satellite Soil Moisture Data. <i>Journal of Hydrometeorology</i> , <b>2020</b> , 21, 241-253	3.7	17
161	Soil Evaporation Stress Determines Soil Moisture-Evapotranspiration Coupling Strength in Land Surface Modeling. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090391	4.9	10
160	Long-Term Trends in Root-Zone Soil Moisture across CONUS Connected to ENSO. <i>Remote Sensing</i> , <b>2020</b> , 12, 2037	5	0
159	Improving Spatial Patterns Prior to Land Surface Data Assimilation via Model Calibration Using SMAP Surface Soil Moisture Data. <i>Water Resources Research</i> , <b>2020</b> , 56, e2020WR027770	5.4	9
158	Impact of Rescaling Approaches in Simple Fusion of Soil Moisture Products. <i>Water Resources Research</i> , <b>2019</b> , 55, 7804-7825	5.4	6
157	Consistency Between NASS Surveyed Soil Moisture Conditions and SMAP Soil Moisture Observations. <i>Water Resources Research</i> , <b>2019</b> , 55, 7682-7693	5.4	5
156	The SMAP and Copernicus Sentinel 1A/B microwave active-passive high resolution surface soil moisture product. <i>Remote Sensing of Environment</i> , <b>2019</b> , 233, 111380	13.2	88
155	A Global Assessment of Added Value in the SMAP Level 4 Soil Moisture Product Relative to Its Baseline Land Surface Model. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6604-6613	4.9	19
154	Effect of vegetation index choice on soil moisture retrievals via the synergistic use of synthetic aperture radar and optical remote sensing. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2019</b> , 80, 47-57	7.3	21
153	A Monte Carlo based adaptive Kalman filtering framework for soil moisture data assimilation. <i>Remote Sensing of Environment</i> , <b>2019</b> , 228, 105-114	13.2	15

152	Comparison of high-resolution airborne soil moisture retrievals to SMAP soil moisture during the SMAP validation experiment 2016 (SMAPVEX16). <i>Remote Sensing of Environment</i> , <b>2019</b> , 227, 137-150	13.2	33
151	A double instrumental variable method for geophysical product error estimation. <i>Remote Sensing of Environment</i> , <b>2019</b> , 225, 217-228	13.2	18
150	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 3351-3365	4.7	7
149	Uncertainty of Reference Pixel Soil Moisture Averages Sampled at SMAP Core Validation Sites. <i>Journal of Hydrometeorology</i> , <b>2019</b> , 20, 1553-1569	3.7	18
148	Diagnosing Bias in Modeled Soil Moisture/Runoff Coefficient Correlation Using the SMAP Level 4 Soil Moisture Product. <i>Water Resources Research</i> , <b>2019</b> , 55, 7010-7026	5.4	13
147	Utility of soil moisture data products for natural disaster applications <b>2019</b> , 65-85		
146	Recent advances in remote sensing of precipitation and soil moisture products for riverine flood prediction <b>2019</b> , 247-266		1
145	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 3387-3397	4.7	26
144	Version 4 of the SMAP Level-4 Soil Moisture Algorithm and Data Product. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 3106-3130	7.1	52
143	The Sensitivity of North American Terrestrial Carbon Fluxes to Spatial and Temporal Variation in Soil Moisture: An Analysis Using Radar-Derived Estimates of Root-Zone Soil Moisture. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 3208-3231	3.7	39
142	Validation of satellite-based soil moisture retrievals from SMAP with in situ observation in the Simineh-Zarrineh (Bokan) Catchment, NW of Iran. <i>Eurasian Journal of Soil Science</i> , <b>2019</b> , 8, 340-350	0.9	1
141	L-band remote-sensing increases sampled levels of global soil moisture-air temperature coupling strength. <i>Remote Sensing of Environment</i> , <b>2019</b> , 220, 51-58	13.2	10
140	A Framework for Diagnosing Factors Degrading the Streamflow Performance of a Soil Moisture Data Assimilation System. <i>Journal of Hydrometeorology</i> , <b>2019</b> , 20, 79-97	3.7	11
139	Assimilation of Spatially Sparse In Situ Soil Moisture Networks into a Continuous Model Domain. <i>Water Resources Research</i> , <b>2018</b> , 54, 1353-1367	5.4	18
138	The error structure of the SMAP single and dual channel soil moisture retrievals. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 758-765	4.9	25
137	The SMAP mission combined active-passive soil moisture product at 9 km and 3 km spatial resolutions. <i>Remote Sensing of Environment</i> , <b>2018</b> , 211, 204-217	13.2	45
136	Development and Assessment of the SMAP Enhanced Passive Soil Moisture Product. <i>Remote Sensing of Environment</i> , <b>2018</b> , 204, 931-941	13.2	188
135	Evaluation of Satellite-Based Precipitation Products from IMERG V04A and V03D, CMORPH and TMPA with Gauged Rainfall in Three Climatologic Zones in China. <i>Remote Sensing</i> , <b>2018</b> , 10, 30	5	34

134	The Efficiency of Data Assimilation. <i>Water Resources Research</i> , <b>2018</b> , 54, 6374-6392	5.4	15
133	Exploiting soil moisture, precipitation and streamflow observations to evaluate soil moisture/runoff coupling in land surface models. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4869-4878	4.9	40
132	Assessment of the impact of spatial heterogeneity on microwave satellite soil moisture periodic error. <i>Remote Sensing of Environment</i> , <b>2018</b> , 205, 85-99	13.2	13
131	Comprehensive Evaluation of GPM-IMERG, CMORPH, and TMPA Precipitation Products with Gauged Rainfall over Mainland China. <i>Advances in Meteorology</i> , <b>2018</b> , 2018, 1-18	1.7	24
130	Spatial and temporal variability of root-zone soil moisture acquired from hydrologic modeling and AirMOSS P-band radar. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2018</b> , 11, 4578-4590	4.7	5
129	Use of Satellite Soil Moisture to Diagnose Climate Model Representations of European Soil Moisture-Air Temperature Coupling Strength. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 12,884	4.9	11
128	Global Investigation of Soil Moisture and Latent Heat Flux Coupling Strength. <i>Water Resources Research</i> , <b>2018</b> , 54, 8196-8215	5.4	21
127	The Added Value of Assimilating Remotely Sensed Soil Moisture for Estimating Summertime Soil Moisture-Air Temperature Coupling Strength. <i>Water Resources Research</i> , <b>2018</b> , 54, 6072-6084	5.4	22
126	Global-scale Evaluation of SMAP, SMOS and ASCAT Soil Moisture Products using Triple Collocation. <i>Remote Sensing of Environment</i> , <b>2018</b> , 214, 1-13	13.2	93
125	Estimating Basin-Scale Water Budgets with SMAP Soil Moisture Data. <i>Water Resources Research</i> , <b>2018</b> , 54, 4228-4244	5.4	22
124	Microwave implementation of two-source energy balance approach for estimating evapotranspiration. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 1351-1369	5.5	23
123	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2017</b> , 10, 489-502	4.7	93
122	Intercomparison of Soil Moisture, Evaporative Stress, and Vegetation Indices for Estimating Corn and Soybean Yields Over the U.S.. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2017</b> , 10, 1328-1343	4.7	43
121	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2017</b> , 10, 2285-2306	4.7	83
120	Impact of Tile Drainage on Evapotranspiration in South Dakota, USA, Based on High Spatiotemporal Resolution Evapotranspiration Time Series From a Multisatellite Data Fusion System. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2017</b> , 10, 2550-2564	4.7	29
119	Validation and scaling of soil moisture in a semi-arid environment: SMAP validation experiment 2015 (SMAPVEX15). <i>Remote Sensing of Environment</i> , <b>2017</b> , 196, 101-112	13.2	49
118	L-band microwave remote sensing and land data assimilation improve the representation of pre-storm soil moisture conditions for hydrologic forecasting. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 5495-5503	4.9	59
117	Nonparametric triple collocation. <i>Water Resources Research</i> , <b>2017</b> , 53, 5516-5530	5.4	6

116	Validation of SMAP soil moisture for the SMAPVEX15 field campaign using a hyper-resolution model. <i>Water Resources Research</i> , <b>2017</b> , 53, 3013-3028	5.4	29
115	Global Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using Assimilation Diagnostics. <i>Journal of Hydrometeorology</i> , <b>2017</b> , 18, 3217-3237	3.7	73
114	Estimating annual water storage variations in medium-scale (2000–10 000 km <sup>2</sup> ) basins using microwave-based soil moisture retrievals. <i>Hydrology and Earth System Sciences</i> , <b>2017</b> , 21, 1849-1862	5.5	14
113	Multi-decadal analysis of root-zone soil moisture applying the exponential filter across CONUS. <i>Hydrology and Earth System Sciences</i> , <b>2017</b> , 21, 4403-4417	5.5	18
112	An assessment of the performance of global rainfall estimates without ground-based observations. <i>Hydrology and Earth System Sciences</i> , <b>2017</b> , 21, 4347-4361	5.5	66
111	Correcting satellite-based precipitation products through SMOS soil moisture data assimilation in two land-surface models of different complexity: API and SURFEX. <i>Remote Sensing of Environment</i> , <b>2017</b> , 200, 295-310	13.2	32
110	Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using In Situ Measurements. <i>Journal of Hydrometeorology</i> , <b>2017</b> , 18, 2621-2645	3.7	139
109	Triple Collocation-Based Merging of Satellite Soil Moisture Retrievals. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2017</b> , 55, 6780-6792	8.1	175
108	An Improved Triple Collocation Analysis Algorithm for Decomposing Autocorrelated and White Soil Moisture Retrieval Errors. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 13,081-13,094	4.4	16
107	SMAP DATA for cropland soil moisture assessment [A case study <b>2017</b> ,		7
106	Advancements in Satellite Remote Sensing for Drought Monitoring. <i>Drought and Water Crises</i> , <b>2017</b> , 225-258		2
105	Evaluation of assimilated SMOS Soil Moisture data for US cropland Soil Moisture monitoring <b>2016</b> ,		3
104	Multi-Profile Analysis of Soil Moisture within the US Climate Reference Network. <i>Vadose Zone Journal</i> , <b>2016</b> , 15, 1-8	2.7	15
103	Error decomposition of nine passive and active microwave satellite soil moisture data sets over Australia. <i>Remote Sensing of Environment</i> , <b>2016</b> , 182, 128-140	13.2	16
102	Impact of Model Relative Accuracy in Framework of Rescaling Observations in Hydrological Data Assimilation Studies. <i>Journal of Hydrometeorology</i> , <b>2016</b> , 17, 2245-2257	3.7	8
101	Dual assimilation of satellite soil moisture to improve streamflow prediction in data-scarce catchments. <i>Water Resources Research</i> , <b>2016</b> , 52, 5357-5375	5.4	44
100	Cloud tolerance of remote-sensing technologies to measure land surface temperature. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 3263-3275	5.5	17
99	Improving Streamflow Prediction Using Remotely-Sensed Soil Moisture and Snow Depth. <i>Remote Sensing</i> , <b>2016</b> , 8, 503	5	10

98	A Quasi-Global Approach to Improve Day-Time Satellite Surface Soil Moisture Anomalies through the Land Surface Temperature Input. <i>Climate</i> , <b>2016</b> , 4, 50	3.1	16
97	Enhancing the USDA global crop assessment decision support system using SMAP L3 Soil Moisture data <b>2016</b> ,		1
96	Rainfall estimation by inverting SMOS soil moisture estimates: A comparison of different methods over Australia. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 12,062-12,079	4.4	48
95	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 4994-5007	8.1	330
94	Operational Hydrological Forecasting during the IPHEX-IOP Campaign - Meet the Challenge. <i>Journal of Hydrology</i> , <b>2016</b> , 541, 434-456	6	15
93	Precipitation Estimation Using L-Band and C-Band Soil Moisture Retrievals. <i>Water Resources Research</i> , <b>2016</b> , 52, 7213-7225	5.4	61
92	The Impact of Vertical Measurement Depth on the Information Content of Soil Moisture for Latent Heat Flux Estimation. <i>Journal of Hydrometeorology</i> , <b>2016</b> , 17, 2419-2430	3.7	25
91	Estimating error cross-correlations in soil moisture data sets using extended collocation analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 1208-1219	4.4	54
90	On the Use of a Water Balance to Evaluate Interannual Terrestrial ET Variability. <i>Journal of Hydrometeorology</i> , <b>2015</b> , 16, 1102-1108	3.7	18
89	Diagnosing Neglected Soil Moisture Source-Sink Processes via a Thermal Infrared-Based Two-Source Energy Balance Model. <i>Journal of Hydrometeorology</i> , <b>2015</b> , 16, 1070-1086	3.7	48
88	Improving root-zone soil moisture estimations using dynamic root growth and crop phenology. <i>Advances in Water Resources</i> , <b>2015</b> , 86, 170-183	4.7	9
87	Evaluating the application of microwave-based vegetation observations in an operational soil moisture data assimilation system <b>2015</b> ,		1
86	Robust estimates of soil moisture and latent heat flux coupling strength obtained from triple collocation. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 8415-8423	4.9	25
85	Optimal averaging of soil moisture predictions from ensemble land surface model simulations. <i>Water Resources Research</i> , <b>2015</b> , 51, 9273-9289	5.4	17
84	Improving operational flood ensemble prediction by the assimilation of satellite soil moisture: comparison between lumped and semi-distributed schemes. <i>Hydrology and Earth System Sciences</i> , <b>2015</b> , 19, 1659-1676	5.5	76
83	The Impact of Local Acquisition Time on the Accuracy of Microwave Surface Soil Moisture Retrievals over the Contiguous United States. <i>Remote Sensing</i> , <b>2015</b> , 7, 13448-13465	5	34
82	The Impact of Assumed Error Variances on Surface Soil Moisture and Snow Depth Hydrologic Data Assimilation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2015</b> , 8, 5116-5129	4.7	7
81	The potential of 2D Kalman filtering for soil moisture data assimilation. <i>Remote Sensing of Environment</i> , <b>2015</b> , 171, 137-148	13.2	23

80	Triple collocation: Beyond three estimates and separation of structural/non-structural errors. <i>Remote Sensing of Environment</i> , <b>2015</b> , 171, 299-310	13.2	24
79	Effect of Forward/Inverse Model Asymmetries Over Retrieved Soil Moisture Assessed With an OSSE for the Aquarius/SAC-D Mission. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2014</b> , 7, 943-949	4.7	
78	An integrated error parameter estimation and lag-aware data assimilation scheme for real-time flood forecasting. <i>Journal of Hydrology</i> , <b>2014</b> , 519, 2722-2736	6	32
77	An Observing System Simulation Experiment for the Aquarius/SAC-D Soil Moisture Product. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2014</b> , 52, 6086-6094	8.1	1
76	Stand-alone error characterisation of microwave satellite soil moisture using a Fourier method. <i>Remote Sensing of Environment</i> , <b>2014</b> , 154, 115-126	13.2	25
75	Evaluation of Assumptions in Soil Moisture Triple Collocation Analysis. <i>Journal of Hydrometeorology</i> , <b>2014</b> , 15, 1293-1302	3.7	83
74	Comparison of prognostic and diagnostic surface flux modeling approaches over the Nile River basin. <i>Water Resources Research</i> , <b>2014</b> , 50, 386-408	5.4	60
73	The Auto-Tuned Land Data Assimilation System (ATLAS). <i>Water Resources Research</i> , <b>2014</b> , 50, 371-385	5.4	35
72	The impact of vertical measurement depth on the information content of soil moisture times series data. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 4997-5004	4.9	41
71	Some Issues in Validating Satellite-Based Soil Moisture Retrievals from SMAP with in Situ Observations. <i>Geophysical Monograph Series</i> , <b>2014</b> , 245-253	1.1	
70	Watershed Reanalysis of Water and Carbon Cycle Models at a Critical Zone Observatory. <i>Geophysical Monograph Series</i> , <b>2014</b> , 493-509	1.1	3
69	Beyond triple collocation: Applications to soil moisture monitoring. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 6419-6439	4.4	82
68	Leveraging microwave polarization information for the calibration of a land data assimilation system. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 8879-8886	4.9	2
67	Dual Forcing and State Correction via Soil Moisture Assimilation for Improved Rainfall Runoff Modeling. <i>Journal of Hydrometeorology</i> , <b>2014</b> , 15, 1832-1848	3.7	51
66	Benchmarking a Soil Moisture Data Assimilation System for Agricultural Drought Monitoring. <i>Journal of Hydrometeorology</i> , <b>2014</b> , 15, 1117-1134	3.7	29
65	Impact of Temporal Autocorrelation Mismatch on the Assimilation of Satellite-Derived Surface Soil Moisture Retrievals. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2014</b> , 7, 3534-3542	4.7	6
64	Information loss in approximately Bayesian estimation techniques: A comparison of generative and discriminative approaches to estimating agricultural productivity. <i>Journal of Hydrology</i> , <b>2013</b> , 507, 163-173	6	19
63	Enhancing model-based land surface temperature estimates using multiplatform microwave observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 577-591	4.4	19

62	The Optimality of Potential Rescaling Approaches in Land Data Assimilation. <i>Journal of Hydrometeorology</i> , <b>2013</b> , 14, 650-660	3.7	95
61	US national cropland soil moisture monitoring using SMAP <b>2013</b> ,		7
60	An approach to quantifying the efficiency of a Bayesian filter. <i>Water Resources Research</i> , <b>2013</b> , 49, 2164-2173	3.1	14
59	Estimating Model and Observation Error Covariance Information for Land Data Assimilation Systems <b>2013</b> , 171-205		
58	Spatial patterns in timing of the diurnal temperature cycle. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 3695-3706	5.5	18
57	Improved prediction of quasi-global vegetation conditions using remotely-sensed surface soil moisture. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	75
56	An Observing System Simulation Experiment (OSSE) for the Aquarius/SAC-D soil moisture product <b>2012</b> ,		2
55	Upscaling sparse ground-based soil moisture observations for the validation of coarse-resolution satellite soil moisture products. <i>Reviews of Geophysics</i> , <b>2012</b> , 50,	23.1	387
54	An ensemble Kalman filter dual assimilation of thermal infrared and microwave satellite observations of soil moisture into the Noah land surface model. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	49
53	Assimilating remote sensing observations of leaf area index and soil moisture for wheat yield estimates: An observing system simulation experiment. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	65
52	An objective methodology for merging satellite- and model-based soil moisture products. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	63
51	On the utility of land surface models for agricultural drought monitoring. <i>Hydrology and Earth System Sciences</i> , <b>2012</b> , 16, 3451-3460	5.5	53
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31	Recent Advances in Land Data Assimilation at the NASA Global Modeling and Assimilation Office <b>2009</b> , 407-428		16
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