Wade Crow

List of Publications by Year
in descending order

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192	13,475	23567	24258
papers	citations	58 h-index	110 g-index

212	212	212	6633
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Root Zone Soil Moisture Comparisons: AirMOSS, SMERGE, and SMAP. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	1
2	Investigating the Efficacy of the SMAP Downscaled Soil Moisture Product for Drought Monitoring Based on Information Theory. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1604-1616.	4.9	9
3	Land transpiration-evaporation partitioning errors responsible for modeled summertime warm bias in the central United States. Nature Communications, 2022, 13, 336.	12.8	25
4	Validation of Soil Moisture Data Products From the NASA SMAP Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 364-392.	4.9	62
5	Can Surface Soil Moisture Information Identify Evapotranspiration Regime Transitions?. Geophysical Research Letters, 2022, 49, .	4.0	15
6	Quasi-global machine learning-based soil moisture estimates at high spatio-temporal scales using CYGNSS and SMAP observations. Remote Sensing of Environment, 2022, 276, 113041.	11.0	28
7	Comprehensive Evaluation and Error-Component Analysis of Four Satellite-Based Precipitation Estimates against Gauged Rainfall over Mainland China. Advances in Meteorology, 2022, 2022, 1-29.	1.6	3
8	Applying a Wavelet Transform Technique to Optimize General Fitting Models for SM Analysis: A Case Study in Downscaling over the Qinghaiâ€“Tibet Plateau. Remote Sensing, 2022, 14, 3063.	4.0	9
9	Crop-CASMA: A web geoprocessing and map service based architecture and implementation for serving soil moisture and crop vegetation condition data over U.S. Cropland. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102902.	1.9	10
10	Improving soil moisture assimilation efficiency via model calibration using SMAP surface soil moisture climatology information. Remote Sensing of Environment, 2022, 280, 113161.	11.0	2
11	A roadmap for high-resolution satellite soil moisture applications â€“ confronting product characteristics with user requirements. Remote Sensing of Environment, 2021, 252, 112162.	11.0	138
12	The Contributions of Gauge-Based Precipitation and SMAP Brightness Temperature Observations to the Skill of the SMAP Level-4 Soil Moisture Product. Journal of Hydrometeorology, 2021, 22, 405-424.	1.9	20
13	Enhanced Large-Scale Validation of Satellite-Based Land Rainfall Products. Journal of Hydrometeorology, 2021, 22, 245-257.	1.9	15
14	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.	4.9	12
15	Assimilation of Satellite Soil Moisture Products for River Flow Prediction: An Extensive Experiment in Over 700 Catchments Throughout Europe. Water Resources Research, 2021, 57, e2021WR029643.	4.2	16
16	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. Journal of Hydrology, 2021, 598, 126468.	5.4	23
17	A triple collocation-based 2D soil moisture merging methodology considering spatial and temporal non-stationary errors. Remote Sensing of Environment, 2021, 263, 112509.	11.0	15
18	Estimating Corn Canopy Water Content From Normalized Difference Water Index (NDWI): An Optimized NDWI-Based Scheme and Its Feasibility for Retrieving Corn VWC. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8168-8181.	6.3	12

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19	Expanding the Application of Soil Moisture Monitoring Systems through Regression-Based Transformation. Journal of Hydrometeorology, 2021, 22, 2601-2615.	1.9	0
20	Crop-CASMA - A Web GIS Tool for Cropland Soil Moisture Monitoring and Assessment Based on SMAP Data. , 2021, , .		4
21	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.	11.0	46
22	Global Estimates of Land Surface Water Fluxes from SMOS and SMAP Satellite Soil Moisture Data. Journal of Hydrometeorology, 2020, 21, 241-253.	1.9	27
23	Soil Evaporation Stress Determines Soil Moistureâ€Evapotranspiration Coupling Strength in Land Surface Modeling. Geophysical Research Letters, 2020, 47, e2020GL090391.	4.0	27
24	Long-Term Trends in Root-Zone Soil Moisture across CONUS Connected to ENSO. Remote Sensing, 2020, 12, 2037.	4.0	4
25	Improving Spatial Patterns Prior to Land Surface Data Assimilation via Model Calibration Using SMAP Surface Soil Moisture Data. Water Resources Research, 2020, 56, e2020WR027770.	4.2	19
26	Retrieving global surface soil moisture from GRACE satellite gravity data. Journal of Hydrology, 2020, 584, 124717.	5.4	24
27	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. Hydrology and Earth System Sciences, 2020, 24, 615-631.	4.9	12
28	A Unified Dataâ€Driven Method to Derive Hydrologic Dynamics From Global SMAP Surface Soil Moisture and GPM Precipitation Data. Water Resources Research, 2020, 56, e2019WR024949.	4.2	11
29	Comparison of microwave remote sensing and land surface modeling for surface soil moisture climatology estimation. Remote Sensing of Environment, 2020, 242, 111756.	11.0	73
30	Agricultural Drought Monitoring via the Assimilation of SMAP Soil Moisture Retrievals Into a Global Soil Water Balance Model. Frontiers in Big Data, 2020, 3, 10.	2.9	38
31	Soil Moistureâ€“Evapotranspiration Overcoupling and L-Band Brightness Temperature Assimilation: Sources and Forecast Implications. Journal of Hydrometeorology, 2020, 21, 2359-2374.	1.9	21
32	Improving Rain/No-Rain Detection Skill by Merging Precipitation Estimates from Different Sources. Journal of Hydrometeorology, 2020, 21, 2419-2429.	1.9	9
33	Model representation of the coupling between evapotranspiration and soil water content at different depths. Hydrology and Earth System Sciences, 2020, 24, 581-594.	4.9	11
34	Impact of model coupling bias on water flux estimates acquired from a land data assimilation system. , 2020, , .		0
35	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.	4.9	23
36	Uncertainty of Reference Pixel Soil Moisture Averages Sampled at SMAP Core Validation Sites. Journal of Hydrometeorology, 2019, 20, 1553-1569.	1.9	24

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37	Diagnosing Bias in Modeled Soil Moisture/Runoff Coefficient Correlation Using the SMAP Level 4 Soil Moisture Product. Water Resources Research, 2019, 55, 7010-7026.	4.2	25
38	Utility of soil moisture data products for natural disaster applications. , 2019, , 65-85.		0
39	Recent advances in remote sensing of precipitation and soil moisture products for riverine flood prediction. , 2019, , 247-266.		1
40	Evaluating the Operational Application of SMAP for Global Agricultural Drought Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3387-3397.	4.9	52
41	Version 4 of the SMAP Levelâ€4 Soil Moisture Algorithm and Data Product. Journal of Advances in Modeling Earth Systems, 2019, 11, 3106-3130.	3.8	104
42	The Sensitivity of North American Terrestrial Carbon Fluxes to Spatial and Temporal Variation in Soil Moisture: An Analysis Using Radarâ€Derived Estimates of Rootâ€Zone Soil Moisture. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3208-3231.	3.0	111
43	Impact of Rescaling Approaches in Simple Fusion of Soil Moisture Products. Water Resources Research, 2019, 55, 7804-7825.	4.2	12
44	Consistency Between NASS Surveyed Soil Moisture Conditions and SMAP Soil Moisture Observations. Water Resources Research, 2019, 55, 7682-7693.	4.2	10
45	The SMAP and Copernicus Sentinel 1A/B microwave active-passive high resolution surface soil moisture product. Remote Sensing of Environment, 2019, 233, 111380.	11.0	175
46	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.	4.0	31
47	Effect of vegetation index choice on soil moisture retrievals via the synergistic use of synthetic aperture radar and optical remote sensing. International Journal of Applied Earth Observation and Geoinformation, 2019, 80, 47-57.	2.8	28
48	A Monte Carlo based adaptive Kalman filtering framework for soil moisture data assimilation. Remote Sensing of Environment, 2019, 228, 105-114.	11.0	26
49	Comparison of high-resolution airborne soil moisture retrievals to SMAP soil moisture during the SMAP validation experiment 2016 (SMAPVEX16). Remote Sensing of Environment, 2019, 227, 137-150.	11.0	45
50	A double instrumental variable method for geophysical product error estimation. Remote Sensing of Environment, 2019, 225, 217-228.	11.0	36
51	L-band remote-sensing increases sampled levels of global soil moisture-air temperature coupling strength. Remote Sensing of Environment, 2019, 220, 51-58.	11.0	14
52	A Framework for Diagnosing Factors Degrading the Streamflow Performance of a Soil Moisture Data Assimilation System. Journal of Hydrometeorology, 2019, 20, 79-97.	1.9	18
53	Validation of satellite-based soil moisture retrievals from SMAP with in situ observation in the Simineh-Zarrineh (Bokan) Catchment, NW of Iran. Eurasian Journal of Soil Science, 2019, 8, 340-350.	0.6	1
54	Assimilation of Spatially Sparse In Situ Soil Moisture Networks into a Continuous Model Domain. Water Resources Research, 2018, 54, 1353-1367.	4.2	23

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55	The Error Structure of the SMAP Single and Dual Channel Soil Moisture Retrievals. Geophysical Research Letters, 2018, 45, 758-765.	4.0	37
56	The SMAP mission combined active-passive soil moisture product at 9â€¯km and 3â€¯km spatial resolutions. Remote Sensing of Environment, 2018, 211, 204-217.	11.0	59
57	Development and assessment of the SMAP enhanced passive soil moisture product. Remote Sensing of Environment, 2018, 204, 931-941.	11.0	297
58	Assessment of the impact of spatial heterogeneity on microwave satellite soil moisture periodic error. Remote Sensing of Environment, 2018, 205, 85-99.	11.0	21
59	Enhancing the USDA FAS Crop Forecasting System Using SMAP L3 Soil Moisture Observations. , 2018, , .		0
60	Comprehensive Evaluation of GPM-IMERG, CMORPH, and TMPA Precipitation Products with Gauged Rainfall over Mainland China. Advances in Meteorology, 2018, 2018, 1-18.	1.6	37
61	Large-Scale Hydrological Fluxes as Revealed by Data from the Soil Moisture Active-Passive Mission. , 2018, , .		0
62	Spatial and Temporal Variability of Root-Zone Soil Moisture Acquired From Hydrologic Modeling and AirMOSS P-Band Radar. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4578-4590.	4.9	10
63	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.	4.0	15
64	Global Investigation of Soil Moisture and Latent Heat Flux Coupling Strength. Water Resources Research, 2018, 54, 8196-8215.	4.2	34
65	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.	4.2	28
66	Global-scale evaluation of SMAP, SMOS and ASCAT soil moisture products using triple collocation. Remote Sensing of Environment, 2018, 214, 1-13.	11.0	157
67	Estimating Basinâ€Scale Water Budgets With SMAP Soil Moisture Data. Water Resources Research, 2018, 54, 4228-4244.	4.2	37
68	Microwave implementation of two-source energy balance approach for estimating evapotranspiration. Hydrology and Earth System Sciences, 2018, 22, 1351-1369.	4.9	35
69	Evaluation of Satellite-Based Precipitation Products from IMERG V04A and V03D, CMORPH and TMPA with Gauged Rainfall in Three Climatologic Zones in China. Remote Sensing, 2018, 10, 30.	4.0	47
70	The Efficiency of Data Assimilation. Water Resources Research, 2018, 54, 6374-6392.	4.2	27
71	Exploiting Soil Moisture, Precipitation, and Streamflow Observations to Evaluate Soil Moisture/Runoff Coupling in Land Surface Models. Geophysical Research Letters, 2018, 45, 4869-4878.	4.0	56
72	Application of Triple Collocation in Ground-Based Validation of Soil Moisture Active/Passive (SMAP) Level 2 Data Products. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 489-502.	4.9	115

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73	Intercomparison of Soil Moisture, Evaporative Stress, and Vegetation Indices for Estimating Corn and Soybean Yields Over the U.S.. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1328-1343.	4.9	63
74	A Review of the Applications of ASCAT Soil Moisture Products. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2285-2306.	4.9	101
75	Impact of Tile Drainage on Evapotranspiration in South Dakota, USA, Based on High Spatiotemporal Resolution Evapotranspiration Time Series From a Multisatellite Data Fusion System. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2550-2564.	4.9	40
76	Validation and scaling of soil moisture in a semi-arid environment: SMAP validation experiment 2015 (SMAPVEX15). Remote Sensing of Environment, 2017, 196, 101-112.	11.0	65
77	L band microwave remote sensing and land data assimilation improve the representation of prestorm soil moisture conditions for hydrologic forecasting. Geophysical Research Letters, 2017, 44, 5495-5503.	4.0	76
78	Nonparametric triple collocation. Water Resources Research, 2017, 53, 5516-5530.	4.2	9
79	Validation of SMAP soil moisture for the SMAPVEX15 field campaign using a hyperâ€resolution model. Water Resources Research, 2017, 53, 3013-3028.	4.2	47
80	Global Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using Assimilation Diagnostics. Journal of Hydrometeorology, 2017, 18, 3217-3237.	1.9	101
81	Correcting satellite-based precipitation products through SMOS soil moisture data assimilation in two land-surface models of different complexity: API and SURFEX. Remote Sensing of Environment, 2017, 200, 295-310.	11.0	39
82	Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using In Situ Measurements. Journal of Hydrometeorology, 2017, 18, 2621-2645.	1.9	196
83	Triple Collocation-Based Merging of Satellite Soil Moisture Retrievals. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6780-6792.	6.3	243
84	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.	3.3	24
85	SMAP DATA for cropland soil moisture assessment â€" A case study. , 2017, , .		8
86	Hydrologic applications for SMAP and SMOS surface soil moisture retrieval products. , 2017, , .		0
87	Estimating annual water storage variations in medium-scale (2000â€"10â€"000â€"km²) basins using microwave-based soil moisture retrievals. Hydrology and Earth System Sciences, 2017, 21, 1849-1862.	4.9	21
88	Multi-decadal analysis of root-zone soil moisture applying the exponential filter across CONUS. Hydrology and Earth System Sciences, 2017, 21, 4403-4417.	4.9	33
89	An assessment of the performance of global rainfall estimates without ground-based observations. Hydrology and Earth System Sciences, 2017, 21, 4347-4361.	4.9	99
90	Advancements in Satellite Remote Sensing for Drought Monitoring. Drought and Water Crises, 2017, , 225-258.	0.1	3

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91	Cloud tolerance of remote-sensing technologies to measure land surface temperature. Hydrology and Earth System Sciences, 2016, 20, 3263-3275.	4.9	24
92	Improving Streamflow Prediction Using Remotely-Sensed Soil Moisture and Snow Depth. Remote Sensing, 2016, 8, 503.	4.0	13
93	A Quasi-Global Approach to Improve Day-Time Satellite Surface Soil Moisture Anomalies through the Land Surface Temperature Input. Climate, 2016, 4, 50.	2.8	17
94	Enhancing the USDA global crop assessment decision support system using SMAP L3 Soil Moisture data. , 2016, , .		1
95	Rainfall estimation by inverting SMOS soil moisture estimates: A comparison of different methods over Australia. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,062.	3.3	59
96	Assessment of the SMAP Passive Soil Moisture Product. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4994-5007.	6.3	460
97	Operational hydrological forecasting during the IPHEx-IOP campaign â€“ Meet the challenge. Journal of Hydrology, 2016, 541, 434-456.	5.4	22
98	Precipitation estimation using <scp>L</scp>â€band and <scp>C</scp>â€band soil moisture retrievals. Water Resources Research, 2016, 52, 7213-7225.	4.2	76
99	The Impact of Vertical Measurement Depth on the Information Content of Soil Moisture for Latent Heat Flux Estimation. Journal of Hydrometeorology, 2016, 17, 2419-2430.	1.9	46
100	Estimating error crossâ€correlations in soil moisture data sets using extended collocation analysis. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1208-1219.	3.3	80
101	Evaluation of assimilated SMOS Soil Moisture data for US cropland Soil Moisture monitoring. , 2016, , .		4
102	Multiâ€Profile Analysis of Soil Moisture within the US Climate Reference Network. Vadose Zone Journal, 2016, 15, 1-8.	2.2	15
103	Benefit of modeling the observation error in a data assimilation framework using vegetation information obtained from passive-based microwave data. , 2016, , .		0
104	Error decomposition of nine passive and active microwave satellite soil moisture data sets over Australia. Remote Sensing of Environment, 2016, 182, 128-140.	11.0	22
105	Impact of Model Relative Accuracy in Framework of Rescaling Observations in Hydrological Data Assimilation Studies. Journal of Hydrometeorology, 2016, 17, 2245-2257.	1.9	10
106	Dual assimilation of satellite soil moisture to improve streamflow prediction in dataâ€scarce catchments. Water Resources Research, 2016, 52, 5357-5375.	4.2	49
107	Evaluating the application of microwave-based vegetation observations in an operational soil moisture data assimilation system. , 2015, , .		1
108	Robust estimates of soil moisture and latent heat flux coupling strength obtained from triple collocation. Geophysical Research Letters, 2015, 42, 8415-8423.	4.0	36

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109	Optimal averaging of soil moisture predictions from ensemble land surface model simulations. Water Resources Research, 2015, 51, 9273-9289.	4.2	23
110	Improving operational flood ensemble prediction by the assimilation of satellite soil moisture: comparison between lumped and semi-distributed schemes. Hydrology and Earth System Sciences, 2015, 19, 1659-1676.	4.9	98
111	The Impact of Local Acquisition Time on the Accuracy of Microwave Surface Soil Moisture Retrievals over the Contiguous United States. Remote Sensing, 2015, 7, 13448-13465.	4.0	40
112	The Impact of Assumed Error Variances on Surface Soil Moisture and Snow Depth Hydrologic Data Assimilation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 5116-5129.	4.9	9
113	The potential of 2D Kalman filtering for soil moisture data assimilation. Remote Sensing of Environment, 2015, 171, 137-148.	11.0	27
114	Triple collocation: Beyond three estimates and separation of structural/non-structural errors. Remote Sensing of Environment, 2015, 171, 299-310.	11.0	37
115	On the Use of a Water Balance to Evaluate Interannual Terrestrial ET Variability. Journal of Hydrometeorology, 2015, 16, 1102-1108.	1.9	24
116	Diagnosing Neglected Soil Moisture Sourceâ€“Sink Processes via a Thermal Infraredâ€“Based Two-Source Energy Balance Model. Journal of Hydrometeorology, 2015, 16, 1070-1086.	1.9	60
117	Improving root-zone soil moisture estimations using dynamic root growth and crop phenology. Advances in Water Resources, 2015, 86, 170-183.	3.8	11
118	Leveraging microwave polarization information for the calibration of a land data assimilation system. Geophysical Research Letters, 2014, 41, 8879-8886.	4.0	2
119	Dual Forcing and State Correction via Soil Moisture Assimilation for Improved Rainfallâ€“Runoff Modeling. Journal of Hydrometeorology, 2014, 15, 1832-1848.	1.9	55
120	Benchmarking a Soil Moisture Data Assimilation System for Agricultural Drought Monitoring. Journal of Hydrometeorology, 2014, 15, 1117-1134.	1.9	44
121	Impact of Temporal Autocorrelation Mismatch on the Assimilation of Satellite-Derived Surface Soil Moisture Retrievals. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3534-3542.	4.9	7
122	Effect of Forward/Inverse Model Asymmetries Over Retrieved Soil Moisture Assessed With an OSSE for the Aquarius/SAC-D Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 943-949.	4.9	1
123	An integrated error parameter estimation and lag-aware data assimilation scheme for real-time flood forecasting. Journal of Hydrology, 2014, 519, 2722-2736.	5.4	42
124	An Observing System Simulation Experiment for the Aquarius/SAC-D Soil Moisture Product. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6086-6094.	6.3	3
125	Stand-alone error characterisation of microwave satellite soil moisture using a Fourier method. Remote Sensing of Environment, 2014, 154, 115-126.	11.0	32
126	Evaluation of Assumptions in Soil Moisture Triple Collocation Analysis. Journal of Hydrometeorology, 2014, 15, 1293-1302.	1.9	105

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127	Comparison of prognostic and diagnostic surface flux modeling approaches over the Nile River basin. Water Resources Research, 2014, 50, 386-408.	4.2	68
128	The Auto-Tuned Land Data Assimilation System (ATLAS). Water Resources Research, 2014, 50, 371-385.	4.2	38
129	The impact of vertical measurement depth on the information content of soil moisture times series data. Geophysical Research Letters, 2014, 41, 4997-5004.	4.0	59
130	Beyond triple collocation: Applications to soil moisture monitoring. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6419-6439.	3.3	97
131	Information loss in approximately Bayesian estimation techniques: A comparison of generative and discriminative approaches to estimating agricultural productivity. Journal of Hydrology, 2013, 507, 163-173.	5.4	23
132	Enhancing modelâ€based land surface temperature estimates using multiplatform microwave observations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 577-591.	3.3	22
133	The Optimality of Potential Rescaling Approaches in Land Data Assimilation. Journal of Hydrometeorology, 2013, 14, 650-660.	1.9	110
134	US national cropland soil moisture monitoring using SMAP. , 2013, , .		10
135	An approach to quantifying the efficiency of a Bayesian filter. Water Resources Research, 2013, 49, 2164-2173.	4.2	16
136	Estimating Model and Observation Error Covariance Information for Land Data Assimilation Systems. , 2013, , 171-205.		0
137	Spatial patterns in timing of the diurnal temperature cycle. Hydrology and Earth System Sciences, 2013, 17, 3695-3706.	4.9	23
138	Improving long-term, retrospective precipitation datasets using satellite-based surface soil moisture retrievals and the Soil Moisture Analysis Rainfall Tool. Journal of Applied Remote Sensing, 2012, 6, 063604.	1.3	19
139	Improved prediction of quasiâ€global vegetation conditions using remotelyâ€sensed surface soil moisture. Geophysical Research Letters, 2012, 39, .	4.0	96
140	An Observing System Simulation Experiment (OSSE) for the Aquarius/SAC-D soil moisture product. , 2012, , .		3
141	Upscaling sparse groundâ€based soil moisture observations for the validation of coarseâ€resolution satellite soil moisture products. Reviews of Geophysics, 2012, 50, .	23.0	493
142	An ensemble Kalman filter dual assimilation of thermal infrared and microwave satellite observations of soil moisture into the Noah land surface model. Water Resources Research, 2012, 48, .	4.2	55
143	Assimilating remote sensing observations of leaf area index and soil moisture for wheat yield estimates: An observing system simulation experiment. Water Resources Research, 2012, 48, .	4.2	86
144	An objective methodology for merging satelliteâ€and modelâ€based soil moisture products. Water Resources Research, 2012, 48, .	4.2	93

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145	On the utility of land surface models for agricultural drought monitoring. Hydrology and Earth System Sciences, 2012, 16, 3451-3460.	4.9	76
146	An intercomparison of available soil moisture estimates from thermal infrared and passive microwave remote sensing and land surface modeling. Journal of Geophysical Research, 2011, 116, .	3.3	123
147	Correcting rainfall using satelliteâ€based surface soil moisture retrievals: The Soil Moisture Analysis Rainfall Tool (SMART). Water Resources Research, 2011, 47, .	4.2	98
148	The Contributions of Precipitation and Soil Moisture Observations to the Skill of Soil Moisture Estimates in a Land Data Assimilation System. Journal of Hydrometeorology, 2011, 12, 750-765.	1.9	135
149	The impact of land surface temperature on soil moisture anomaly detection from passive microwave observations. Hydrology and Earth System Sciences, 2011, 15, 3135-3151.	4.9	75
150	Improving hydrologic predictions of a catchment model via assimilation of surface soil moisture. Advances in Water Resources, 2011, 34, 526-536.	3.8	157
151	A Quasi-Global Evaluation System for Satellite-Based Surface Soil Moisture Retrievals. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2516-2527.	6.3	81
152	The Soil Moisture Active Passive (SMAP) Mission. Proceedings of the IEEE, 2010, 98, 704-716.	21.3	2,546
153	Evaluating the Utility of Remotely Sensed Soil Moisture Retrievals for Operational Agricultural Drought Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 57-66.	4.9	299
154	The Impact of Radar Incidence Angle on Soil-Moisture-Retrieval Skill. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 501-505.	3.1	20
155	Towards the estimation root-zone soil moisture via the simultaneous assimilation of thermal and microwave soil moisture retrievals. Advances in Water Resources, 2010, 33, 201-214.	3.8	71
156	Inferring the impact of radar incidence angle on soil moisture retrieval skill using data assimilation. , 2010, , .		0
157	Assimilating Remotely Sensed Surface Soil Moisture into SWAT Using Ensemble Kalman Filter. , 2010, , .		0
158	Estimating Spatial Sampling Errors in Coarse-Scale Soil Moisture Estimates Derived from Point-Scale Observations. Journal of Hydrometeorology, 2010, 11, 1423-1429.	1.9	180
159	An improved approach for estimating observation and model error parameters in soil moisture data assimilation. Water Resources Research, 2010, 46, .	4.2	104
160	Performance Metrics for Soil Moisture Retrievals and Application Requirements. Journal of Hydrometeorology, 2010, 11, 832-840.	1.9	391
161	A new data assimilation approach for improving runoff prediction using remotely-sensed soil moisture retrievals. Hydrology and Earth System Sciences, 2009, 13, 1-16.	4.9	199
162	Improving Satellite-Based Rainfall Accumulation Estimates Using Spaceborne Surface Soil Moisture Retrievals. Journal of Hydrometeorology, 2009, 10, 199-212.	1.9	102

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