

Dara Entekhabi

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175
papers

12,263
citations

52
h-index

108
g-index

197
ext. papers

14,459
ext. citations

6.1
avg, IF

6.37
L-index

#	Paper	IF	Citations
175	The Soil Moisture Active Passive (SMAP) Mission. <i>Proceedings of the IEEE</i> , 2010 , 98, 704-716	14.3	1845
174	Recent Arctic amplification and extreme mid-latitude weather. <i>Nature Geoscience</i> , 2014 , 7, 627-637	18.3	1206
173	Hydrologic Data Assimilation with the Ensemble Kalman Filter. <i>Monthly Weather Review</i> , 2002 , 130, 103-114	11.4	669
172	Passive microwave remote sensing of soil moisture. <i>Journal of Hydrology</i> , 1996 , 184, 101-129	6	503
171	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 4994-5007	8.1	330
170	Performance Metrics for Soil Moisture Retrievals and Application Requirements. <i>Journal of Hydrometeorology</i> , 2010 , 11, 832-840	3.7	308
169	Eurasian snow cover variability and northern hemisphere climate predictability. <i>Geophysical Research Letters</i> , 1999 , 26, 345-348	4.9	277
168	Mutual interaction of soil moisture state and atmospheric processes. <i>Journal of Hydrology</i> , 1996 , 184, 3-17	6	250
167	Catchment hydrologic response with a fully distributed triangulated irregular network model. <i>Water Resources Research</i> , 2004 , 40,	5.4	235
166	Land data assimilation and estimation of soil moisture using measurements from the Southern Great Plains 1997 Field Experiment. <i>Water Resources Research</i> , 2002 , 38, 35-1-35-18	5.4	205
165	The global distribution and dynamics of surface soil moisture. <i>Nature Geoscience</i> , 2017 , 10, 100-104	18.3	203
164	Analysis of evaporative fraction diurnal behaviour. <i>Agricultural and Forest Meteorology</i> , 2007 , 143, 13-29	5.8	203
163	An Algorithm for Merging SMAP Radiometer and Radar Data for High-Resolution Soil-Moisture Retrieval. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 1504-1512	8.1	192
162	Development and Assessment of the SMAP Enhanced Passive Soil Moisture Product. <i>Remote Sensing of Environment</i> , 2018 , 204, 931-941	13.2	188
161	Extended triple collocation: Estimating errors and correlation coefficients with respect to an unknown target. <i>Geophysical Research Letters</i> , 2014 , 41, 6229-6236	4.9	182
160	On the spatial organization of soil moisture fields. <i>Geophysical Research Letters</i> , 1995 , 22, 2757-2760	4.9	172
159	The role of the Siberian high in northern hemisphere climate variability. <i>Geophysical Research Letters</i> , 2001 , 28, 299-302	4.9	158

158	Downscaling of radio brightness measurements for soil moisture estimation: A four-dimensional variational data assimilation approach. <i>Water Resources Research</i> , 2001 , 37, 2353-2364	5.4	149
157	Preserving high-resolution surface and rainfall data in operational-scale basin hydrology: a fully-distributed physically-based approach. <i>Journal of Hydrology</i> , 2004 , 298, 80-111	6	147
156	Generation of Triangulated Irregular Networks Based on Hydrological Similarity. <i>Journal of Hydrologic Engineering - ASCE</i> , 2004 , 9, 288-302	1.8	131
155	The quasi-periodic behavior of rainfall variability in Africa and its relationship to the southern oscillation. <i>Archives for Meteorology, Geophysics and Bioclimatology, Series A</i> , 1986 , 34, 311-348		128
154	Estimation of Surface Turbulent Fluxes through Assimilation of Radiometric Surface Temperature Sequences. <i>Journal of Hydrometeorology</i> , 2004 , 5, 145-159	3.7	126
153	Vegetation optical depth and scattering albedo retrieval using time series of dual-polarized L-band radiometer observations. <i>Remote Sensing of Environment</i> , 2016 , 172, 178-189	13.2	119
152	Modeled Northern Hemisphere Winter Climate Response to Realistic Siberian Snow Anomalies. <i>Journal of Climate</i> , 2003 , 16, 3917-3931	4.4	119
151	Tests of the SMAP Combined Radar and Radiometer Algorithm Using Airborne Field Campaign Observations and Simulated Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 2018-2028	8.1	117
150	Regionally strong feedbacks between the atmosphere and terrestrial biosphere. <i>Nature Geoscience</i> , 2017 , Volume 10, 410-414	18.3	113
149	L-band vegetation optical depth and effective scattering albedo estimation from SMAP. <i>Remote Sensing of Environment</i> , 2017 , 198, 460-470	13.2	106
148	The Diurnal Behavior of Evaporative Fraction in the Soil-Vegetation-Atmospheric Boundary Layer Continuum. <i>Journal of Hydrometeorology</i> , 2011 , 12, 1530-1546	3.7	95
147	An ensemble-based reanalysis approach to land data assimilation. <i>Water Resources Research</i> , 2005 , 41,	5.4	95
146	Assessing the Performance of the Ensemble Kalman Filter for Land Surface Data Assimilation. <i>Monthly Weather Review</i> , 2006 , 134, 2128-2142	2.4	95
145	Mapping of Land-Atmosphere Heat Fluxes and Surface Parameters with Remote Sensing Data. <i>Boundary-Layer Meteorology</i> , 2003 , 107, 605-633	3.4	92
144	The SMAP and Copernicus Sentinel 1A/B microwave active-passive high resolution surface soil moisture product. <i>Remote Sensing of Environment</i> , 2019 , 233, 111380	13.2	88
143	Variational estimation of soil and vegetation turbulent transfer and heat flux parameters from sequences of multisensor imagery. <i>Water Resources Research</i> , 2004 , 40,	5.4	83
142	Estimation of surface heat flux and an index of soil moisture using adjoint-state surface energy balance. <i>Water Resources Research</i> , 1999 , 35, 3115-3125	5.4	83
141	Basin hydrologic response relations to distributed physiographic descriptors and climate. <i>Journal of Hydrology</i> , 2001 , 247, 169-182	6	80

140	An initial assessment of SMAP soil moisture retrievals using high-resolution model simulations and in situ observations. <i>Geophysical Research Letters</i> , 2016 , 43, 9662-9668	4.9	79
139	Evolution of Atmospheric Response to Early-Season Eurasian Snow Cover Anomalies. <i>Monthly Weather Review</i> , 2001 , 129, 2746-2760	2.4	78
138	Land data assimilation with satellite measurements for the estimation of surface energy balance components and surface control on evaporation. <i>Water Resources Research</i> , 2001 , 37, 1713-1722	5.4	78
137	Hillslope and Climatic Controls on Hydrologic Fluxes. <i>Water Resources Research</i> , 1995 , 31, 1725-1739	5.4	78
136	A Comparative Study of the SMAP Passive Soil Moisture Product With Existing Satellite-Based Soil Moisture Products. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 2959-2971	8.1	77
135	A multi-resolution ensemble study of a tropical urban environment and its interactions with the background regional atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9804-9818	4.4	76
134	On the effects of triangulated terrain resolution on distributed hydrologic model response. <i>Hydrological Processes</i> , 2005 , 19, 2101-2122	3.3	76
133	A Wireless Soil Moisture Smart Sensor Web Using Physics-Based Optimal Control: Concept and Initial Demonstrations. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2010 , 3, 522-535	4.7	70
132	Linking Siberian Snow Cover to Precursors of Stratospheric Variability. <i>Journal of Climate</i> , 2014 , 27, 5422-5432	4.4	69
131	Large-Eddy Simulation of Flow and Pollutant Transport in Urban Street Canyons with Ground Heating. <i>Boundary-Layer Meteorology</i> , 2010 , 137, 187-204	3.4	69
130	Land surface state and flux estimation using the ensemble Kalman smoother during the Southern Great Plains 1997 field experiment. <i>Water Resources Research</i> , 2006 , 42,	5.4	66
129	Flow and Pollutant Transport in Urban Street Canyons of Different Aspect Ratios with Ground Heating: Large-Eddy Simulation. <i>Boundary-Layer Meteorology</i> , 2012 , 142, 289-304	3.4	65
128	Sensitivity of atmospheric response to modeled snow anomaly characteristics. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		65
127	Probabilistic analysis of the effects of climate change on groundwater recharge. <i>Water Resources Research</i> , 2010 , 46,	5.4	63
126	Equivalent steady soil moisture profile and the time compression approximation in water balance modeling. <i>Water Resources Research</i> , 1994 , 30, 2737-2749	5.4	63
125	Extending the Predictability of Hydrometeorological Flood Events Using Radar Rainfall Nowcasting. <i>Journal of Hydrometeorology</i> , 2006 , 7, 660-677	3.7	61
124	Global characterization of surface soil moisture drydowns. <i>Geophysical Research Letters</i> , 2017 , 44, 3682-3690	3.9	59
123	L-band vegetation optical depth seasonal metrics for crop yield assessment. <i>Remote Sensing of Environment</i> , 2018 , 212, 249-259	13.2	47

122	Surface Soil Moisture Retrieval Using the L-Band Synthetic Aperture Radar Onboard the Soil Moisture Active-Passive Satellite and Evaluation at Core Validation Sites. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , Volume 55, 1897-1914	8.1	46
121	Soil Moisture Retrieval Using L-Band Radar Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 3492-3506	8.1	45
120	The SMAP mission combined active-passive soil moisture product at 9 km and 3 km spatial resolutions. <i>Remote Sensing of Environment</i> , 2018 , 211, 204-217	13.2	45
119	Relative impacts of Siberian and North American snow anomalies on the winter Arctic Oscillation. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	45
118	Moisture pulse-reserve in the soil-plant continuum observed across biomes. <i>Nature Plants</i> , 2018 , 4, 1026-1033	10.3	45
117	A remote sensing observatory for hydrologic sciences: A genesis for scaling to continental hydrology. <i>Water Resources Research</i> , 2006 , 42,	5.4	43
116	Large-scale atmospheric patterns associated with mesoscale features leading to extreme precipitation events in Northwestern Italy. <i>Advances in Water Resources</i> , 2005 , 28, 601-614	4.7	42
115	How Many Parameters Can Be Maximally Estimated From a Set of Measurements?. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015 , 12, 1081-1085	4.1	39
114	Hemispheric-scale climate response to Northern Eurasia land surface characteristics and snow anomalies. <i>Global and Planetary Change</i> , 2007 , 56, 359-370	4.2	36
113	Terrain and Multiple-Scale Interactions as Factors in Generating Extreme Precipitation Events. <i>Journal of Hydrometeorology</i> , 2004 , 5, 390-404	3.7	36
112	Scale-recursive assimilation of precipitation data. <i>Advances in Water Resources</i> , 2001 , 24, 941-953	4.7	36
111	Impact of Hillslope-Scale Organization of Topography, Soil Moisture, Soil Temperature, and Vegetation on Modeling Surface Microwave Radiation Emission. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009 , 47, 2557-2571	8.1	35
110	Impact of Multiresolution Active and Passive Microwave Measurements on Soil Moisture Estimation Using the Ensemble Kalman Smoother. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007 , 45, 1016-1028	8.1	34
109	Error Propagation of Radar Rainfall Nowcasting Fields through a Fully Distributed Flood Forecasting Model. <i>Journal of Applied Meteorology and Climatology</i> , 2007 , 46, 932-940	2.7	34
108	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 3894-3905	8.1	32
107	Evaluating the effects of image filtering in short-term radar rainfall forecasting for hydrological applications. <i>Meteorological Applications</i> , 2006 , 13, 289	2.1	32
106	Soil and Atmospheric Controls on the Land Surface Energy Balance: A Generalized Framework for Distinguishing Moisture-Limited and Energy-Limited Evaporation Regimes. <i>Water Resources Research</i> , 2018 , 54, 1831-1851	5.4	31
105	Estimation of Landscape Soil Water Losses from Satellite Observations of Soil Moisture. <i>Journal of Hydrometeorology</i> , 2018 , 19, 871-889	3.7	30

104	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007 , 45, 2630-2643	8.1	30
103	Hydrological Storage Length Scales Represented by Remote Sensing Estimates of Soil Moisture and Precipitation. <i>Water Resources Research</i> , 2018 , 54, 1476-1492	5.4	29
102	The role of model dynamics in ensemble Kalman filter performance for chaotic systems. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2011 , 63, 958-977	2	29
101	Comprehensive analysis of alternative downscaled soil moisture products. <i>Remote Sensing of Environment</i> , 2020 , 239, 111586	13.2	28
100	Sensitivity of Aquarius Active and Passive Measurements Temporal Covariability to Land Surface Characteristics. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 4700-4711	8.1	27
99	Using data assimilation to identify diffuse recharge mechanisms from chemical and physical data in the unsaturated zone. <i>Water Resources Research</i> , 2009 , 45,	5.4	27
98	Hydrological extremes in hyperarid regions: A diagnostic characterization of intense precipitation over the Central Arabian Peninsula. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 1637-1650	4.4	26
97	Orographic Constraints on a Modeled Siberian Snow Tropospheric Stratospheric Teleconnection Pathway. <i>Journal of Climate</i> , 2004 , 17, 1176-1189	4.4	26
96	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 4259-4272	8.1	25
95	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 640-650	8.1	23
94	SMAP Soil Moisture Change as an Indicator of Drought Conditions. <i>Remote Sensing</i> , 2018 , 10, 788	5	23
93	Sensitivity of L-band vegetation optical depth to carbon stocks in tropical forests: a comparison to higher frequencies and optical indices. <i>Remote Sensing of Environment</i> , 2019 , 232, 111303	13.2	23
92	Wavelet correlations to reveal multiscale coupling in geophysical systems. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 7555-7572	4.4	23
91	Hydrologic data assimilation with a hillslope-scale-resolving model and L band radar observations: Synthetic experiments with the ensemble Kalman filter. <i>Water Resources Research</i> , 2012 , 48,	5.4	23
90	Conditioning Stochastic Rainfall Replicates on Remote Sensing Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009 , 47, 2436-2449	8.1	23
89	A Method for Upscaling In Situ Soil Moisture Measurements to Satellite Footprint Scale Using Random Forests. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 2663-2673	4.7	22
88	Validation of the SMAP freeze/thaw product using categorical triple collocation. <i>Remote Sensing of Environment</i> , 2018 , 205, 329-337	13.2	22
87	An Analogue Approach to Identify Heavy Precipitation Events: Evaluation and Application to CMIP5 Climate Models in the United States. <i>Journal of Climate</i> , 2014 , 27, 5941-5963	4.4	22

86	Measurement Scheduling for Soil Moisture Sensing: From Physical Models to Optimal Control. <i>Proceedings of the IEEE</i> , 2010 , 98, 1918-1933	14.3	22
85	Embedding landscape processes into triangulated terrain models. <i>International Journal of Geographical Information Science</i> , 2005 , 19, 429-457	4.1	22
84	Estimation of active-passive microwave covariation using SMAP and Sentinel-1 data. <i>Remote Sensing of Environment</i> , 2019 , 225, 458-468	13.2	21
83	Mapping recharge from space: roadmap to meeting the grand challenge. <i>Hydrogeology Journal</i> , 2007 , 15, 105-116	3.1	21
82	Short-Term and Long-Term Surface Soil Moisture Memory Time Scales Are Spatially Anticorrelated at Global Scales. <i>Journal of Hydrometeorology</i> , 2019 , 20, 1165-1182	3.7	20
81	Boundary-Layer Entrainment Estimation Through Assimilation of Radiosonde and Micrometeorological Data into a Mixed-Layer Model. <i>Boundary-Layer Meteorology</i> , 2004 , 110, 405-433	3.4	19
80	Satellite-Based Assessment of Land Surface Energy Partitioning, Soil Moisture Relationships and Effects of Confounding Variables. <i>Water Resources Research</i> , 2019 , 55, 10657-10677	5.4	19
79	Satellite and Station Observations Demonstrate Water Availability's Effect on Continental-Scale Evaporative and Photosynthetic Land Surface Dynamics. <i>Water Resources Research</i> , 2019 , 55, 540-554	5.4	18
78	Quantifying Precipitation Uncertainty for Land Data Assimilation Applications. <i>Monthly Weather Review</i> , 2015 , 143, 3276-3299	2.4	17
77	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 8479-8491	8.1	17
76	The NASA Soil Moisture Active Passive (SMAP) mission: Overview 2010 ,		17
75	Retrievals of soil moisture and vegetation optical depth using a multi-channel collaborative algorithm. <i>Remote Sensing of Environment</i> , 2021 , 257, 112321	13.2	17
74	Estimation of land surface water and energy balance parameters using conditional sampling of surface states. <i>Water Resources Research</i> , 2014 , 50, 1805-1822	5.4	16
73	An entropy-based measure of hydrologic complexity and its applications. <i>Water Resources Research</i> , 2015 , 51, 5145-5160	5.4	16
72	Parameter estimation of coupled water and energy balance models based on stationary constraints of surface states. <i>Water Resources Research</i> , 2011 , 47,	5.4	16
71	Effect of Radiative Transfer Uncertainty on L-Band Radiometric Soil Moisture Retrieval. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 2686-2698	8.1	16
70	Spatiotemporal Disaggregation of Remotely Sensed Precipitation for Ensemble Hydrologic Modeling and Data Assimilation. <i>Journal of Hydrometeorology</i> , 2006 , 7, 511-533	3.7	16
69	River basin salinization as a form of aridity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 17635-17642	11.5	16

68	Mean-velocity profile of smooth channel flow explained by a cospectral budget model with wall-blockage. <i>Physics of Fluids</i> , 2016 , 28, 035107	4.4	16
67	Global-scale assessment and inter-comparison of recently developed/reprocessed microwave satellite vegetation optical depth products. <i>Remote Sensing of Environment</i> , 2021 , 253, 112208	13.2	16
66	Characterization of higher-order scattering from vegetation with SMAP measurements. <i>Remote Sensing of Environment</i> , 2018 , 219, 324-338	13.2	16
65	Partitioning Evapotranspiration Over the Continental United States Using Weather Station Data. <i>Geophysical Research Letters</i> , 2018 , 45, 9605-9613	4.9	16
64	Mapping land water and energy balance relations through conditional sampling of remote sensing estimates of atmospheric forcing and surface states. <i>Water Resources Research</i> , 2016 , 52, 2737-2752	5.4	15
63	Application of a hillslope-scale soil moisture data assimilation system to military trafficability assessment. <i>Journal of Terramechanics</i> , 2014 , 51, 53-66	2.2	15
62	Analysis of the Radar Vegetation Index and Potential Improvements. <i>Remote Sensing</i> , 2018 , 10, 1776	5	15
61	Vegetation Controls on Dryland Salinity. <i>Geophysical Research Letters</i> , 2018 , 45, 11,669-11,682	4.9	15
60	Mapped Hydroclimatology of Evapotranspiration and Drainage Runoff Using SMAP Brightness Temperature Observations and Precipitation Information. <i>Water Resources Research</i> , 2019 , 55, 3391-3413	5.4	14
59	Plant Osmoregulation as an Emergent Water-Saving Adaptation. <i>Water Resources Research</i> , 2018 , 54, 2781-2798	5.4	14
58	Physics-Based Modeling of Active and Passive Microwave Covariations Over Vegetated Surfaces. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 788-802	8.1	14
57	Impact of soil heterogeneity in a mixed-layer model of the planetary boundary layer. <i>Hydrological Sciences Journal</i> , 1998 , 43, 633-658	3.5	14
56	Estimation of relative canopy absorption and scattering at L-, C- and X-bands. <i>Remote Sensing of Environment</i> , 2019 , 233, 111384	13.2	13
55	Reproducibility of soil moisture ensembles when representing soil parameter uncertainty using a Latin HypercubeBased approach with correlation control. <i>Water Resources Research</i> , 2010 , 46,	5.4	13
54	Assessment of Multi-Scale SMOS and SMAP Soil Moisture Products across the Iberian Peninsula. <i>Remote Sensing</i> , 2020 , 12, 570	5	12
53	ActivePassive Soil Moisture Retrievals During the SMAP Validation Experiment 2012. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016 , 13, 475-479	4.1	12
52	An alternate and robust approach to calibration for the estimation of land surface model parameters based on remotely sensed observations. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	12
51	SMAP Detects Soil Moisture Under Temperate Forest Canopies. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089697	4.9	11

50	Identification of runoff generation spatial distribution using conventional hydrologic gauge time series. <i>Water Resources Research</i> , 2006 , 42,	5.4	11
49	Land-Atmosphere Drivers of Landscape-Scale Plant Water Content Loss. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090331	4.9	10
48	Landscape Water Storage and Subsurface Correlation From Satellite Surface Soil Moisture and Precipitation Observations. <i>Water Resources Research</i> , 2019 , 55, 9111-9132	5.4	10
47	The Effect of Variable Soil Moisture Profiles on P-Band Backscatter. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 6315-6325	8.1	10
46	A long term global daily soil moisture dataset derived from AMSR-E and AMSR2 (2002-2019). <i>Scientific Data</i> , 2021 , 8, 143	8.2	10
45	Role of large eddies in the breakdown of the Reynolds analogy in an idealized mildly unstable atmospheric surface layer. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 2182-2197	6.4	9
44	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> , 2022 , 15, 364-392	4.7	9
43	Detecting forest response to droughts with global observations of vegetation water content. <i>Global Change Biology</i> , 2021 , 27, 6005-6024	11.4	9
42	Combined Radar-Radiometer Surface Soil Moisture and Roughness Estimation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 4098-4110	8.1	8
41	Forward Simulation of Multi-Frequency Microwave Brightness Temperature over Desert Soils in Kuwait and Comparison with Satellite Observations. <i>Remote Sensing</i> , 2019 , 11, 1647	5	7
40	Relationship Between Vegetation Microwave Optical Depth and Cross-Polarized Backscatter From Multiyear Aquarius Observations. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 4493-4503	4.7	7
39	Improving Brightness Temperature Measurements Near Coastal Areas for SMAP. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019 , 12, 4578-4588	4.7	7
38	Terrestrial Evaporation and Moisture Drainage in a Warmer Climate. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086498	4.9	6
37	Characterization of vegetation and soil scattering mechanisms across different biomes using P-band SAR polarimetry. <i>Remote Sensing of Environment</i> , 2018 , 209, 107-117	13.2	6
36	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 6859-6867	8.1	6
35	Soil and Vegetation Scattering Contributions in L-Band and P-Band Polarimetric SAR Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 8417-8429	8.1	6
34	The Soil Moisture Active and Passive Mission (SMAP): Science and applications 2009 ,		6
33	Consistency Between NASS Surveyed Soil Moisture Conditions and SMAP Soil Moisture Observations. <i>Water Resources Research</i> , 2019 , 55, 7682-7693	5.4	5

32	Rainstorm statistics conditional on soil moisture index: Temporal and spatial characteristics. <i>Meccanica</i> , 1996 , 31, 103-116	2.1	5
31	Patterns of plant rehydration and growth following pulses of soil moisture availability. <i>Biogeosciences</i> , 2021 , 18, 831-847	4.6	5
30	Multiple spaceborne water cycle observations would aid modeling. <i>Eos</i> , 2006 , 87, 149	1.5	4
29	Wireless Sensor Network Informed UAV Path Planning for Soil Moisture Mapping. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-13	8.1	4
28	High-resolution enhanced product based on SMAP active-passive approach using sentinel 1A and 1B SAR data 2017 ,		3
27	Ensemble-based characterization of uncertain environmental features. <i>Advances in Water Resources</i> , 2014 , 70, 36-50	4.7	3
26	Analysis of a two-year meteorological dataset produced on Italian territory with a coupling procedure between a limited area atmospheric model and a sequential MSG-SEVIRI LST assimilation scheme. <i>International Journal of Remote Sensing</i> , 2013 , 34, 3561-3586	3.1	3
25	Structure in fluctuations of large-scale soil moisture climate due to external random forcing and internal feedbacks. <i>Stochastic Hydrology & Hydraulics</i> , 1997 , 11, 95-114		3
24	Comparison of NOWRAD, AMSU, AMSR-E, TMI, and SSM/I surface precipitation rate Retrievals over the united states great plains 2007 ,		3
23	Achieving Breakthroughs in Global Hydrologic Science by Unlocking the Power of Multisensor, Multidisciplinary Earth Observations. <i>AGU Advances</i> , 2021 , 2, e2021AV000455	5.4	3
22	Time-variations of zeroth-order vegetation absorption and scattering at L-band. <i>Remote Sensing of Environment</i> , 2021 , 267, 112726	13.2	3
21	Evaluation of Surface Melt on the Greenland Ice Sheet Using SMAP L-Band Microwave Radiometry. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 1-1	4.7	3
20	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020 , 13, 6457-6472	4.7	3
19	Landscape-Scale Plant Water Content and Carbon Flux Behavior Following Moisture Pulses: From Dryland to Mesic Environments. <i>Water Resources Research</i> , 2021 , 57, e2020WR027592	5.4	3
18	Validation of the SMAP freeze/thaw product using categorical triple collocation 2017 ,		2
17	Synoptic Preconditions for Extreme Flooding during the Summer Asian Monsoon in the Mumbai Area. <i>Journal of Hydrometeorology</i> , 2014 , 15, 229-242	3.7	2
16	Estimating Gravimetric Moisture of Vegetation Using an Attenuation-Based Multi-Sensor Approach 2018 ,		2
15	Global Patterns of Vegetation Response to Short-Term Surface Water Availability. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 14, 8273-8286	4.7	2

14	Can Surface Soil Moisture Information Identify Evapotranspiration Regime Transitions?. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	2
13	Comparison of downscaling techniques for high resolution soil moisture mapping 2017 ,		1
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