

# Wolfgang Wagner

## List of Publications by Year in descending order

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319  
papers

25,656  
citations

5782

84  
h-index

9118

149  
g-index

361  
all docs

361  
docs citations

361  
times ranked

16828  
citing authors

#	ARTICLE	IF	CITATIONS
1	Validity and reliability of drought reporters in estimating soil water content and drought impacts in central Europe. <i>Agricultural and Forest Meteorology</i> , 2022, 315, 108808.	1.9	9
2	Analysis of short-term soil moisture effects on the ASCAT backscatter-incidence angle dependence. <i>Science of Remote Sensing</i> , 2022, , 100053.	2.2	2
3	High-resolution (1km) satellite rainfall estimation from SM2RAIN applied to Sentinel-1: Po River basin as a case study. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2481-2497.	1.9	9
4	Widespread occurrence of anomalous C-band backscatter signals in arid environments caused by subsurface scattering. <i>Remote Sensing of Environment</i> , 2022, 276, 113025.	4.6	20
5	The influence of vegetation water dynamics on the ASCAT backscatter-incidence angle relationship in the Amazon. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2997-3019.	1.9	4
6	The effects of radiometric terrain flattening on SAR-based forest mapping and classification. <i>Remote Sensing Letters</i> , 2022, 13, 855-864.	0.6	6
7	Towards constraining soil and vegetation dynamics in land surface models: Modeling ASCAT backscatter incidence-angle dependence with a Deep Neural Network. <i>Remote Sensing of Environment</i> , 2022, 279, 113116.	4.6	7
8	A roadmap for high-resolution satellite soil moisture applications – confronting product characteristics with user requirements. <i>Remote Sensing of Environment</i> , 2021, 252, 112162.	4.6	138
9	National-scale mapping of building height using Sentinel-1 and Sentinel-2 time series. <i>Remote Sensing of Environment</i> , 2021, 252, 112128.	4.6	93
10	European Wide Forest Classification Based on Sentinel-1 Data. <i>Remote Sensing</i> , 2021, 13, 337.	1.8	31
11	The value of ASCAT soil moisture and MODIS snow cover data for calibrating a conceptual hydrologic model. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1389-1410.	1.9	25
12	The openEO API – Harmonising the Use of Earth Observation Cloud Services Using Virtual Data Cube Functionalities. <i>Remote Sensing</i> , 2021, 13, 1125.	1.8	32
13	Closing the Water Cycle from Observations across Scales: Where Do We Stand?. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1897-E1935.	1.7	31
14	Towards Including Dynamic Vegetation Parameters in the EUMETSAT H SAF ASCAT Soil Moisture Products. <i>Remote Sensing</i> , 2021, 13, 1463.	1.8	7
15	A large-scale 2005–2012 flood map record derived from ENVISAT-ASAR data: United Kingdom as a test case. <i>Remote Sensing of Environment</i> , 2021, 256, 112338.	4.6	14
16	A Machine Learning-Based Approach for Surface Soil Moisture Estimations with Google Earth Engine. <i>Remote Sensing</i> , 2021, 13, 2099.	1.8	35
17	Improving ASCAT Soil Moisture Retrievals With an Enhanced Spatially Variable Vegetation Parameterization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 8241-8256.	2.7	10
18	Deriving exclusion maps from C-band SAR time-series in support of floodwater mapping. <i>Remote Sensing of Environment</i> , 2021, 265, 112668.	4.6	13

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19	Different tree-ring width sensitivities to satellite-based soil moisture from dry, moderate and wet pedunculate oak ( <i>Quercus robur</i> L.) stands across a southeastern distribution margin. <i>Science of the Total Environment</i> , 2021, 800, 149536.	3.9	8
20	Toward a self-calibrated and independent SM2RAIN rainfall product. <i>Journal of Hydrology</i> , 2021, 603, 126837.	2.3	9
21	Deriving an Exclusion Map (Ex-Map) from Sentinel-1 Time Series for Supporting Floodwater Mapping. , 2021, , .		3
22	The New, Systematic Global Flood Monitoring Product of the Copernicus Emergency Management Service. , 2021, , .		18
23	A Review of Irrigation Information Retrievals from Space and Their Utility for Users. <i>Remote Sensing</i> , 2021, 13, 4112.	1.8	76
24	The normalised Sentinel-1 Global Backscatter Model, mapping Earth's land surface with C-band microwaves. <i>Scientific Data</i> , 2021, 8, 277.	2.4	30
25	The International Soil Moisture Network: serving Earth system science for over a decade. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5749-5804.	1.9	116
26	A Sentinel-1 Backscatter Datacube for Global Land Monitoring Applications. <i>Remote Sensing</i> , 2021, 13, 4622.	1.8	15
27	Comparison of Long Short-Term Memory Networks and Random Forest for Sentinel-1 Time Series Based Large Scale Crop Classification. <i>Remote Sensing</i> , 2021, 13, 5000.	1.8	10
28	Explaining Anomalies in SAR and Scatterometer Soil Moisture Retrievals From Dry Soils With Subsurface Scattering. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 2190-2197.	2.7	20
29	Assimilation of Sentinel 1 and SMAP's based satellite soil moisture retrievals into SWAT hydrological model: the impact of satellite revisit time and product spatial resolution on flood simulations in small basins. <i>Journal of Hydrology</i> , 2020, 581, 124367.	2.3	51
30	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. <i>Remote Sensing of Environment</i> , 2020, 251, 112052.	4.6	63
31	Regional features of topographic relief over the Loess Plateau, China: evidence from ensemble empirical mode decomposition. <i>Frontiers of Earth Science</i> , 2020, 14, 695-710.	0.9	3
32	Does ASCAT observe the spring reactivation in temperate deciduous broadleaf forests?. <i>Remote Sensing of Environment</i> , 2020, 250, 112042.	4.6	11
33	Sentinel-1 Cross Ratio and Vegetation Optical Depth: A Comparison over Europe. <i>Remote Sensing</i> , 2020, 12, 3404.	1.8	35
34	Validation practices for satellite soil moisture retrievals: What are (the) errors?. <i>Remote Sensing of Environment</i> , 2020, 244, 111806.	4.6	164
35	Practical Data Products From Cosmic-Ray Neutron Sensing for Hydrological Applications. <i>Frontiers in Water</i> , 2020, 2, .	1.0	18
36	Czech Drought Monitor System for monitoring and forecasting agricultural drought and drought impacts. <i>International Journal of Climatology</i> , 2020, 40, 5941-5958.	1.5	55

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37	Identification of Active Gully Erosion Sites in the Loess Plateau of China Using MF-DFA. Remote Sensing, 2020, 12, 589.	1.8	12
38	Soil Moisture and Precipitation: The SM2RAIN Algorithm for Rainfall Retrieval from Satellite Soil Moisture. Advances in Global Change Research, 2020, , 1013-1027.	1.6	3
39	Classification of Wheat and Barley Fields Using Sentinel-1 Backscatter. , 2020, , .		3
40	Toward Global Soil Moisture Monitoring With Sentinel-1: Harnessing Assets and Overcoming Obstacles. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 520-539.	2.7	241
41	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.	1.4	28
42	Investigating vegetation water dynamics and drought using Metop ASCAT over the North American Grasslands. Remote Sensing of Environment, 2019, 224, 219-235.	4.6	19
43	A Generic First-Order Radiative Transfer Modelling Approach for the Inversion of Soil and Vegetation Parameters from Scatterometer Observations. Remote Sensing, 2019, 11, 285.	1.8	21
44	An Automatic SAR-Based Change Detection Method for Generating Large-Scale Flood Data Records: The UK as a Test Case. , 2019, , .		3
45	Data Identification and Process Monitoring for Reproducible Earth Observation Research. , 2019, , .		4
46	Detection of soil moisture anomalies based on Sentinel-1. Physics and Chemistry of the Earth, 2019, 112, 75-82.	1.2	13
47	SM2RAINâ€“ASCAT (2007â€“2018): global daily satellite rainfall data from ASCAT soil moisture observations. Earth System Science Data, 2019, 11, 1583-1601.	3.7	140
48	Evolution of the ESA CCI Soil Moisture climate data records and their underlying merging methodology. Earth System Science Data, 2019, 11, 717-739.	3.7	331
49	The performance of Metop Advanced SCATterometer soil moisture data as a complementary source for the estimation of crop-soil water balance in Central Europe. Journal of Agricultural Science, 2018, 156, 577-598.	0.6	4
50	Development of an Earth Observation Cloud Platform in Support to Water Resources Monitoring. , 2018, , 275-283.		6
51	Methods to Remove the Border Noise From Sentinel-1 Synthetic Aperture Radar Data: Implications and Importance For Time-Series Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 777-786.	2.3	36
52	Global-scale assessment and combination of SMAP with ASCAT (active) and AMSR2 (passive) soil moisture products. Remote Sensing of Environment, 2018, 204, 260-275.	4.6	147
53	Long-Term Soil Moisture Data Records Derived From a Series of European Scattermeters. , 2018, , 51-84.		1
54	Improving the Seasonal Representation of ASCAT Soil Moisture and Vegetation Dynamics in a Temperate Climate. Remote Sensing, 2018, 10, 1788.	1.8	17

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55	Statistical Merging of Active and Passive Microwave Observations Into Long-Term Soil Moisture Climate Data Records. , 2018, , .		1
56	What Rainfall Does Not Tell Us—Enhancing Financial Instruments with Satellite-Derived Soil Moisture and Evaporative Stress. Remote Sensing, 2018, 10, 1819.	1.8	20
57	Comparison of Different High-Resolution Soil Moisture Products Across an Agricultural Landscape in South-Eastern Australia. , 2018, , .		0
58	Effects of Different Spatial Precipitation Input Data on Crop Model Outputs under a Central European Climate. Atmosphere, 2018, 9, 290.	1.0	14
59	Sensitivity of Sentinel-1 Backscatter to Vegetation Dynamics: An Austrian Case Study. Remote Sensing, 2018, 10, 1396.	1.8	219
60	Soil Moisture from Fusion of Scatterometer and SAR: Closing the Scale Gap with Temporal Filtering. Remote Sensing, 2018, 10, 1030.	1.8	71
61	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	1.7	160
62	The Added Value of the VH/VV Polarization-Ratio for Global Soil Moisture Estimations From Scatterometer Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3668-3679.	2.3	13
63	Annual seasonality in Sentinel-1 signal for forest mapping and forest type classification. International Journal of Remote Sensing, 2018, 39, 7738-7760.	1.3	50
64	Modelling and correcting azimuthal anisotropy in Sentinel-1 backscatter data. Remote Sensing Letters, 2018, 9, 799-808.	0.6	16
65	SM2RAIN-CCI: a new global long-term rainfall data set derived from ESA CCI soil moisture. Earth System Science Data, 2018, 10, 267-280.	3.7	101
66	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.	2.3	101
67	Triple Collocation Analysis of Soil Moisture From Metop-A ASCAT and SMOS Against JRA-55 and ERA-Interim. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2274-2284.	2.3	25
68	Foreword to the Special Issue on “New Challenges and Opportunities in Scatterometry” IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2083-2085.	2.3	1
69	Joint Sentinel-1 and SMAP data assimilation to improve soil moisture estimates. Geophysical Research Letters, 2017, 44, 6145-6153.	1.5	111
70	Near real time de-noising of satellite-based soil moisture retrievals: An intercomparison among three different techniques. Remote Sensing of Environment, 2017, 198, 17-29.	4.6	9
71	Scientific Developments and the EPS-SG Scatterometer. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2086-2097.	2.3	35
72	Total canopy transmittance estimated from small-footprint, full-waveform airborne LiDAR. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 128, 61-72.	4.9	29

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73	Emerging outcomes from a cross-disciplinary doctoral programme on water resource systems. <i>Water Policy</i> , 2017, 19, 463-478.	0.7	7
74	ESA CCI Soil Moisture for improved Earth system understanding: State-of-the art and future directions. <i>Remote Sensing of Environment</i> , 2017, 203, 185-215.	4.6	781
75	Triple Collocation-Based Merging of Satellite Soil Moisture Retrievals. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 6780-6792.	2.7	243
76	Assessing Vegetation Dynamics Over Mainland Australia With Metop ASCAT. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 2240-2248.	2.3	27
77	Dynamic Characterization of the Incidence Angle Dependence of Backscatter Using Metop ASCAT. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 2348-2359.	2.3	23
78	An Analysis of Ku-Band Profiling Radar Observations of Boreal Forest. <i>Remote Sensing</i> , 2017, 9, 1252.	1.8	4
79	The future of Earth observation in hydrology. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3879-3914.	1.9	313
80	European Rice Cropland Mapping with Sentinel-1 Data: The Mediterranean Region Case Study. <i>Water (Switzerland)</i> , 2017, 9, 392.	1.2	58
81	A Comparison of Terrain Indices toward Their Ability in Assisting Surface Water Mapping from Sentinel-1 Data. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 140.	1.4	33
82	State of the Climate in 2016. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, Si-S280.	1.7	132
83	Uncertainty information in climate data records from Earth observation. <i>Earth System Science Data</i> , 2017, 9, 511-527.	3.7	100
84	The Hydrological Open Air Laboratory (HOAL) in Petzenkirchen: a hypothesis-driven observatory. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 227-255.	1.9	77
85	Use of Satellite Soil Moisture Products for the Operational Mitigation of Landslides Risk in Central Italy. , 2016, , 231-247.		27
86	A Combined Satellite-Derived Drought Indicator to Support Humanitarian Aid Organizations. <i>Remote Sensing</i> , 2016, 8, 340.	1.8	48
87	Mapping Wetlands in Zambia Using Seasonal Backscatter Signatures Derived from ENVISAT ASAR Time Series. <i>Remote Sensing</i> , 2016, 8, 402.	1.8	46
88	Combining satellite observations to develop a global soil moisture product for near-real-time applications. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4191-4208.	1.9	22
89	The effect of assimilating satellite-derived soil moisture data in SiBCASA on simulated carbon fluxes in Boreal Eurasia. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 605-624.	1.9	11
90	Analytical solution for first-order scattering in bistatic radiative transfer interaction problems of layered media. <i>Applied Optics</i> , 2016, 55, 5379.	2.1	15

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91	State of the Climate in 2015. Bulletin of the American Meteorological Society, 2016, 97, Si-S275.	1.7	142
92	Geocoding uncertainty analysis for the automated processing of Sentinel-1 data using Sentinel-1 Toolbox software. , 2016, , .		2
93	Mapping rice extent and cropping scheme in the Mekong Delta using Sentinel-1A data. Remote Sensing Letters, 2016, 7, 1209-1218.	0.6	140
94	Estimating error cross-correlations in soil moisture data sets using extended collocation analysis. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1208-1219.	1.2	80
95	Root-zone plant available water estimation using the SMOS-derived soil water index. Advances in Water Resources, 2016, 96, 339-353.	1.7	33
96	Disaggregation of Low-Resolution L-Band Radiometry Using C-Band Radar Data. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1425-1429.	1.4	15
97	Homogeneity of a global multisatellite soil moisture climate data record. Geophysical Research Letters, 2016, 43, 11,245.	1.5	18
98	From Point to Pixel Scale: An Upscaling Approach for In Situ Soil Moisture Measurements. Vadose Zone Journal, 2016, 15, 1-8.	1.3	13
99	The Impact of Quadratic Nonlinear Relations between Soil Moisture Products on Uncertainty Estimates from Triple Collocation Analysis and Two Quadratic Extensions. Journal of Hydrometeorology, 2016, 17, 1725-1743.	0.7	9
100	Error decomposition of nine passive and active microwave satellite soil moisture data sets over Australia. Remote Sensing of Environment, 2016, 182, 128-140.	4.6	22
101	Evaluation of satellite soil moisture products over Norway using ground-based observations. International Journal of Applied Earth Observation and Geoinformation, 2016, 45, 155-164.	1.4	31
102	Analyzing the Vegetation Parameterization in the TU-Wien ASCAT Soil Moisture Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3513-3531.	2.7	66
103	Initial soil moisture effects on flash flood generation – A comparison between basins of contrasting hydro-climatic conditions. Journal of Hydrology, 2016, 541, 206-217.	2.3	94
104	Remote Sensing of Terrestrial Rainfall From Ku-Band Scatterometers. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 533-539.	2.3	10
105	Rainfall-runoff modelling by using SM2RAIN-derived and state-of-the-art satellite rainfall products over Italy. International Journal of Applied Earth Observation and Geoinformation, 2016, 48, 163-173.	1.4	62
106	Recent advances in (soil moisture) triple collocation analysis. International Journal of Applied Earth Observation and Geoinformation, 2016, 45, 200-211.	1.4	207
107	Developing an operational algorithm based on ANN for the retrieval of SMC from the incoming metop SCA mission. , 2015, , .		0
108	Mapping Rice Seasonality in the Mekong Delta with Multi-Year Envisat ASAR WSM Data. Remote Sensing, 2015, 7, 15868-15893.	1.8	74

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109	The Use of H-SAF Soil Moisture Products for Operational Hydrology: Flood Modelling over Italy. <i>Hydrology</i> , 2015, 2, 2-22.	1.3	33
110	Frozen Soil Detection Based on Advanced Scatterometer Observations and Air Temperature Data as Part of Soil Moisture Retrieval. <i>Remote Sensing</i> , 2015, 7, 3206-3231.	1.8	29
111	Use of satellite and modeled soil moisture data for predicting event soil loss at plot scale. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3845-3856.	1.9	18
112	The potential of 2D Kalman filtering for soil moisture data assimilation. <i>Remote Sensing of Environment</i> , 2015, 171, 137-148.	4.6	27
113	A novel approach to improve spatial detail in modeled soil moisture through the integration of remote sensing data. , 2015, , .		0
114	An assessment of remotely sensed surface and root zone soil moisture through active and passive sensors in northeast Asia. <i>Remote Sensing of Environment</i> , 2015, 160, 166-179.	4.6	44
115	Integration of Satellite Soil Moisture and Rainfall Observations over the Italian Territory. <i>Journal of Hydrometeorology</i> , 2015, 16, 1341-1355.	0.7	56
116	Evaluation of post-retrieval de-noising of active and passive microwave satellite soil moisture. <i>Remote Sensing of Environment</i> , 2015, 163, 127-139.	4.6	21
117	Remote Sensing Time Series Revealing Land Surface Dynamics: Status Quo and the Pathway Ahead. <i>Remote Sensing and Digital Image Processing</i> , 2015, , 1-24.	0.7	19
118	Selecting algorithms for Earth observation of climate within the European Space Agency Climate Change Initiative: Introduction to a special issue. <i>Remote Sensing of Environment</i> , 2015, 162, 239-241.	4.6	2
119	State of the Climate in 2014. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, ES1-ES32.	1.7	78
120	Investigating Radar Time Series for Hydrological Characterisation in the Lower Mekong Basin. <i>Remote Sensing and Digital Image Processing</i> , 2015, , 357-381.	0.7	0
121	Flood detection from multi-temporal SAR data using harmonic analysis and change detection. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 38, 15-24.	1.4	153
122	Evaluation of the ESA CCI soil moisture product using ground-based observations. <i>Remote Sensing of Environment</i> , 2015, 162, 380-395.	4.6	443
123	Seven Years of Advanced Synthetic Aperture Radar (ASAR) Global Monitoring (GM) of Surface Soil Moisture over Africa. <i>Remote Sensing</i> , 2014, 6, 7683-7707.	1.8	23
124	Performance inter-comparison of soil moisture retrieval models for the MetOp-A ASCAT instrument. , 2014, , .		11
125	Seasonality in the Angular Dependence of ASAR Wide Swath Backscatter. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 1423-1427.	1.4	7
126	Impact of ASCAT Soil Moisture Assimilation on Regional Precipitation Forecasts: A Case Study for Austria. <i>Monthly Weather Review</i> , 2014, 142, 1525-1541.	0.5	27



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127	Catchment scale validation of SMOS and ASCAT soil moisture products using hydrological modeling and temporal stability analysis. <i>Journal of Hydrology</i> , 2014, 519, 934-946.	2.3	59
128	State of the Climate in 2013. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, S1-S279.	1.7	138
129	Compared performances of microwave passive soil moisture retrievals (SMOS) and active soil moisture retrievals (ASCAT) using land surface model estimates (MERRA-LAND). , 2014, , .		0
130	Open source toolbox and web application for soil moisture validation. , 2014, , .		3
131	Soil as a natural rain gauge: Estimating global rainfall from satellite soil moisture data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5128-5141.	1.2	308
132	How do Spatial Scale, Noise, and Reference Data affect Empirical Estimates of Error in ASAR-Derived 1 km Resolution Soil Moisture?. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 3880-3891.	2.3	4
133	Clarifications on the "Comparison Between SMOS, VUA, ASCAT, and ECMWF Soil Moisture Products Over Four Watersheds in U.S.". <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 1901-1906.	2.7	35
134	Similarities Between Spaceborne Active and Airborne Passive Microwave Observations at 1 km Resolution. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 2178-2182.	1.4	4
135	Global-scale comparison of passive (SMOS) and active (ASCAT) satellite based microwave soil moisture retrievals with soil moisture simulations (MERRA-Land). <i>Remote Sensing of Environment</i> , 2014, 152, 614-626.	4.6	160
136	Optimisation of global grids for high-resolution remote sensing data. <i>Computers and Geosciences</i> , 2014, 72, 84-93.	2.0	65
137	Suitability of SAR imagery for automatic flood mapping in the Lower Mekong Basin. <i>International Journal of Remote Sensing</i> , 2014, 35, 2857-2874.	1.3	25
138	Validation of the ASCAT Soil Water Index using in situ data from the International Soil Moisture Network. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014, 30, 1-8.	1.4	84
139	Soil moisture mapping in a semiarid region, based on ASAR/Wide Swath satellite data. <i>Water Resources Research</i> , 2014, 50, 823-835.	1.7	38
140	Estimation of surface soil moisture in alpine areas based on medium spatial resolution SAR time-series and upscaled in-situ measurements. , 2014, , .		2
141	Laser Pulse Interaction with Forest Canopy: Geometric and Radiometric Issues. <i>Managing Forest Ecosystems</i> , 2014, , 19-41.	0.4	4
142	Monitoring multi-decadal satellite earth observation of soil moisture products through land surface reanalyses. <i>Remote Sensing of Environment</i> , 2013, 138, 77-89.	4.6	79
143	Skill and Global Trend Analysis of Soil Moisture from Reanalyses and Microwave Remote Sensing. <i>Journal of Hydrometeorology</i> , 2013, 14, 1259-1277.	0.7	205
144	Estimating root mean square errors in remotely sensed soil moisture over continental scale domains. <i>Remote Sensing of Environment</i> , 2013, 137, 288-298.	4.6	165

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145	Estimation of the temporal autocorrelation structure by the collocation technique with an emphasis on soil moisture studies. <i>Hydrological Sciences Journal</i> , 2013, 58, 1729-1747.	1.2	20
146	Assimilation of satellite soil moisture data into rainfall-runoff modelling for several catchments worldwide. , 2013, , .		6
147	Potential of Sentinel-1 for high-resolution soil moisture monitoring. , 2013, , .		6
148	A new method for rainfall estimation through soil moisture observations. <i>Geophysical Research Letters</i> , 2013, 40, 853-858.	1.5	187
149	Inter-comparison of microwave satellite soil moisture retrievals over the Murrumbidgee Basin, southeast Australia. <i>Remote Sensing of Environment</i> , 2013, 134, 1-11.	4.6	112
150	Characterizing Coarse-Scale Representativeness of in situ Soil Moisture Measurements from the International Soil Moisture Network. <i>Vadose Zone Journal</i> , 2013, 12, 1-16.	1.3	109
151	Soil Moisture from Thermal Infrared Satellite Data: Synergies with Microwave Data. <i>Remote Sensing and Digital Image Processing</i> , 2013, , 315-330.	0.7	0
152	De-noising of passive and active microwave satellite soil moisture time series. <i>Geophysical Research Letters</i> , 2013, 40, 3624-3630.	1.5	24
153	Global Automated Quality Control of In Situ Soil Moisture Data from the International Soil Moisture Network. <i>Vadose Zone Journal</i> , 2013, 12, 1-21.	1.3	346
154	The ASCAT Soil Moisture Product: A Review of its Specifications, Validation Results, and Emerging Applications. <i>Meteorologische Zeitschrift</i> , 2013, 22, 5-33.	0.5	471
155	The ESA Climate Change Initiative: Satellite Data Records for Essential Climate Variables. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1541-1552.	1.7	355
156	How Oceanic Oscillation Drives Soil Moisture Variations over Mainland Australia: An Analysis of 32 Years of Satellite Observations*. <i>Journal of Climate</i> , 2013, 26, 10159-10173.	1.2	27
157	Intercomparison of microwave remote-sensing soil moisture data sets based on distributed eco-hydrological model simulation and in situ measurements over the North China Plain. <i>International Journal of Remote Sensing</i> , 2013, 34, 6587-6610.	1.3	14
158	Towards a high-density soil moisture network for the validation of SMAP in Petzenkirchen, Austria. , 2013, , .		7
159	34 years of remotely sensed soil moisture: What climate signals do we (not) see?. , 2013, , .		0
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