Rogier van der Velde

List of Publications by Year
in descending order

59 papers	2,472 citations	236925 25 h-index	197818 49 g-index
60 all docs	60 docs citations	60 times ranked	2516 citing authors

#	Article	IF	Citations
1	Active and Passive Microwave Signatures of Diurnal Soil Freeze-Thaw Transitions on the Tibetan Plateau. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	5
2	Using a Discrete Scattering Model to Constrain Water Cloud Model for Simulating Ground-Based Scatterometer Measurements and Retrieving Soil Moisture. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, , 1-1.	4.9	1
3	Validation of SMAP L2 passive-only soil moisture products using upscaled in situ measurements collected in Twente, the Netherlands. Hydrology and Earth System Sciences, 2021, 25, 473-495.	4.9	10
4	Impact of Soil Permittivity and Temperature Profile on L-Band Microwave Emission of Frozen Soil. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4080-4093.	6.3	15
5	Year-long, broad-band, microwave backscatter observations of an alpine meadow over the Tibetan Plateau with a ground-based scatterometer. Earth System Science Data, 2021, 13, 2819-2856.	9.9	5
6	Status of the Tibetan Plateau observatory (Tibet-Obs) and a 10-year (2009â€“2019) surface soil moisture dataset. Earth System Science Data, 2021, 13, 3075-3102.	9.9	38
7	Monitoring Water and Energy Cycles at Climate Scale in the Third Pole Environment (CLIMATE-TPE). Remote Sensing, 2021, 13, 3661.	4.0	7
8	Sentinel-1 soil moisture content and its uncertainty over sparsely vegetated fields. Journal of Hydrology X, 2020, 9, 100066.	1.6	15
9	Anatomy of the 2018Âagricultural drought in the Netherlands using in situ soil moisture and satellite vegetation indices. Hydrology and Earth System Sciences, 2020, 24, 6021-6031.	4.9	28
10	Monitoring agricultural field trafficability using Sentinel-1. Agricultural Water Management, 2019, 224, 105698.	5.6	12
11	Impacts of Radiometric Uncertainty and Weather-Related Surface Conditions on Soil Moisture Retrievals with Sentinel-1. Remote Sensing, 2019, 11, 2025.	4.0	22
12	State updating of root zone soil moisture estimates of an unsaturated zone metamodel for operational water resources management. Journal of Hydrology X, 2019, 4, 100040.	1.6	11
13	Assessment of Soil Moisture SMAP Retrievals and ELBARA-III Measurements in a Tibetan Meadow Ecosystem. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1407-1411.	3.1	13
14	Sampling depth of L-band radiometer measurements of soil moisture and freeze-thaw dynamics on the Tibetan Plateau. Remote Sensing of Environment, 2019, 226, 16-25.	11.0	54
15	Mapping soil moisture across the Tibetan Plateau plains using Aquarius active and passive L-band microwave observations. International Journal of Applied Earth Observation and Geoinformation, 2019, 77, 108-118.	2.8	13
16	Assessment of the SMAP Soil Emission Model and Soil Moisture Retrieval Algorithms for a Tibetan Desert Ecosystem. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3786-3799.	6.3	27
17	Impact of surface roughness, vegetation opacity and soil permittivity on L-band microwave emission and soil moisture retrieval in the third pole environment. Remote Sensing of Environment, 2018, 209, 633-647.	11.0	40
18	Development and assessment of the SMAP enhanced passive soil moisture product. Remote Sensing of Environment, 2018, 204, 931-941.	11.0	297

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19	Use of a discrete electromagnetic model for simulating Aquarius L-band active/passive observations and soil moisture retrieval. Remote Sensing of Environment, 2018, 205, 434-452.	11.0	17
20	Broadband Full Polarimetric Scatterometry for Monitoring Soil Moisture and Vegetation Properties Over a Tibetan Meadow. , 2018, , .		1
21	Impact of soil freeze-thaw mechanism on the runoff dynamics of two Tibetan rivers. Journal of Hydrology, 2018, 563, 382-394.	5.4	44
22	The Raam regional soil moisture monitoring network in the Netherlands. Earth System Science Data, 2018, 10, 61-79.	9.9	23
23	Assessment of Noah land surface model with various runoff parameterizations over a Tibetan river. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1488-1504.	3.3	37
24	Evaluation of Noah Frozen Soil Parameterization for Application to a Tibetan Meadow Ecosystem. Journal of Hydrometeorology, 2017, 18, 1749-1763.	1.9	37
25	L-Band Microwave Emission of Soil Freezeâ€“Thaw Process in the Third Pole Environment. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5324-5338.	6.3	36
26	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
27	Blending Satellite Observed, Model Simulated, and in Situ Measured Soil Moisture over Tibetan Plateau. Remote Sensing, 2016, 8, 268.	4.0	70
28	SMAP soil moisture drying more rapid than observed in situ following rainfall events. Geophysical Research Letters, 2016, 43, 8068-8075.	4.0	84
29	Impacts of Noah model physics on catchmentâ€scale runoff simulations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 807-832.	3.3	26
30	Effects of Roughness Length Parameterizations on Regional-Scale Land Surface Modeling of Alpine Grasslands in the Yangtze River Basin. Journal of Hydrometeorology, 2016, 17, 1069-1085.	1.9	17
31	Aquarius L-band scatterometer and radiometer observations over a Tibetan Plateau site. International Journal of Applied Earth Observation and Geoinformation, 2016, 45, 165-177.	2.8	10
32	Underâ€canopy turbulence and root water uptake of a <scp>T</scp>ibetan meadow ecosystem modeled by <scp>N</scp>oahâ€<scp>MP</scp>. Water Resources Research, 2015, 51, 5735-5755.	4.2	23
33	Augmentations to the Noah Model Physics for Application to the Yellow River Source Area. Part I: Soil Water Flow. Journal of Hydrometeorology, 2015, 16, 2659-2676.	1.9	54
34	Use of Radarsat-2 and Landsat TM Images for Spatial Parameterization of Manningâ€™s Roughness Coefficient in Hydraulic Modeling. Remote Sensing, 2015, 7, 836-864.	4.0	25
35	Augmentations to the Noah Model Physics for Application to the Yellow River Source Area. Part II: Turbulent Heat Fluxes and Soil Heat Transport. Journal of Hydrometeorology, 2015, 16, 2677-2694.	1.9	49
36	Soil Moisture Mapping Using Combined Active/Passive Microwave Observations Over the East of the Netherlands. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4355-4372.	4.9	31

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37	Land-atmospheric water and energy cycle of winter wheat, Loess Plateau, China. International Journal of Climatology, 2014, 34, 3044-3053.	3.5	8
38	Assessment of Roughness Length Schemes Implemented within the Noah Land Surface Model for High-Altitude Regions. Journal of Hydrometeorology, 2014, 15, 921-937.	1.9	55
39	New evidence for the links between the local water cycle and the underground wet sand layer of a mega-dune in the Badain Jaran Desert, China. Journal of Arid Land, 2014, 6, 371.	2.3	12
40	Improving modeled snow albedo estimates during the spring melt season. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7311-7331.	3.3	19
41	Analysis of long-term terrestrial water storage variations in the Yangtze River basin. Hydrology and Earth System Sciences, 2013, 17, 1985-2000.	4.9	37
42	Assimilation of Satellite-Observed Snow Albedo in a Land Surface Model. Journal of Hydrometeorology, 2012, 13, 1119-1130.	1.9	28
43	Decomposition of Uncertainties between Coarse MM5â€“Noah-Simulated and Fine ASAR-Retrieved Soil Moisture over Central Tibet. Journal of Hydrometeorology, 2012, 13, 1925-1938.	1.9	10
44	Decadal variations of land surface temperature anomalies observed over the Tibetan Plateau by the Special Sensor Microwave Imager (SSM/I) from 1987 to 2008. Climatic Change, 2012, 114, 769-781.	3.6	66
45	Soil moisture mapping over the central part of the Tibetan Plateau using a series of ASAR WS images. Remote Sensing of Environment, 2012, 120, 175-187.	11.0	122
46	A hydro-optical model for deriving water quality variables from satellite images (HydroSat): A case study of the Nile River demonstrating the future Sentinel-2 capabilities. Physics and Chemistry of the Earth, 2012, 50-52, 224-232.	2.9	19
47	Technical Note: Calibration and validation of geophysical observation models. Biogeosciences, 2012, 9, 2195-2201.	3.3	12
48	Ensemble uncertainty of inherent optical properties. Optics Express, 2011, 19, 16772.	3.4	14
49	Semi-empirical approach for estimating broadband albedo of snow. Remote Sensing of Environment, 2011, 115, 2086-2095.	11.0	9
50	The Tibetan Plateau observatory of plateau scale soil moisture and soil temperature (Tibet-Obs) for quantifying uncertainties in coarse resolution satellite and model products. Hydrology and Earth System Sciences, 2011, 15, 2303-2316.	4.9	304
51	Effects of corn on C- and L-band radar backscatter: A correction method for soil moisture retrieval. Remote Sensing of Environment, 2010, 114, 2417-2430.	11.0	149
52	L Band Brightness Temperature Observations over a Corn Canopy during the Entire Growth Cycle. Sensors, 2010, 10, 6980-7001.	3.8	7
53	Influence of thermodynamic soil and vegetation parameterizations on the simulation of soil temperature states and surface fluxes by the Noah LSM over a Tibetan plateau site. Hydrology and Earth System Sciences, 2009, 13, 759-777.	4.9	59
54	Soil moisture mapping over the Chinese Loess Plateau using ENVISAT/ASAR data. Advances in Space Research, 2009, 43, 1111-1117.	2.6	21

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55	Dynamics in land-surface conditions on the Tibetan Plateau observed by Advanced Synthetic Aperture Radar (ASAR). Hydrological Sciences Journal, 2009, 54, 1079-1093.	2.6	29
56	Soil Moisture Retrieval During a Corn Growth Cycle Using L-Band (1.6 GHz) Radar Observations. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2365-2374.	6.3	62
57	Impact of Soil Moisture Dynamics on ASAR Ïƒo Signatures and Its Spatial Variability Observed over the Tibetan Plateau. Sensors, 2008, 8, 5479-5491.	3.8	24
58	Estimation of the Total Atmospheric Water Vapor Content and Land Surface Temperature Based on AATSR Thermal Data. Sensors, 2008, 8, 1832-1845.	3.8	9
59	Characterization of the Temporal and Spatial Variability of Soil Moisture through Multi-Temporal Analysis of ASAR Observations. , 2007, , .		3