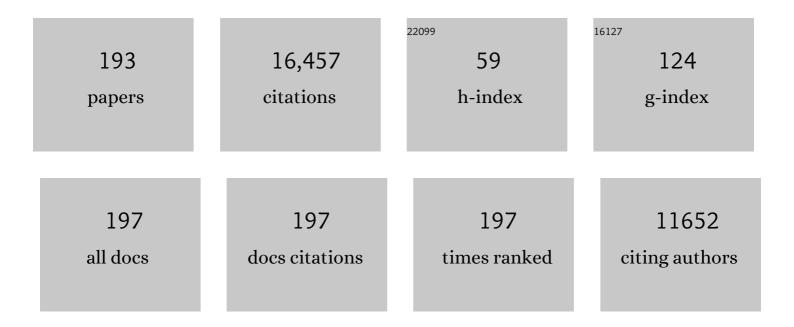
List of Publications by Year in descending order

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ΝΛΟΛ ΕΝΤΕΚΗΛΒΙ

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The Soil Moisture Active Passive (SMAP) Mission. Proceedings of the IEEE, 2010, 98, 704-716. | 16.4 | 2,546 |
| 2 | Recent Arctic amplification and extreme mid-latitude weather. Nature Geoscience, 2014, 7, 627-637. | 5.4 | 1,729 |
| 3 | Hydrologic Data Assimilation with the Ensemble Kalman Filter. Monthly Weather Review, 2002, 130, 103-114. | 0.5 | 785 |
| 4 | Passive microwave remote sensing of soil moisture. Journal of Hydrology, 1996, 184, 101-129. | 2.3 | 620 |
| 5 | Assessment of the SMAP Passive Soil Moisture Product. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4994-5007. | 2.7 | 460 |
| 6 | Performance Metrics for Soil Moisture Retrievals and Application Requirements. Journal of Hydrometeorology, 2010, 11, 832-840. | 0.7 | 391 |
| 7 | Eurasian snow cover variability and northern hemisphere climate predictability. Geophysical Research Letters, 1999, 26, 345-348. | 1.5 | 323 |
| 8 | The global distribution and dynamics of surface soil moisture. Nature Geoscience, 2017, 10, 100-104. | 5.4 | 308 |
| 9 | Mutual interaction of soil moisture state and atmospheric processes. Journal of Hydrology, 1996, 184, 3-17. | 2.3 | 307 |
| 10 | Development and assessment of the SMAP enhanced passive soil moisture product. Remote Sensing of Environment, 2018, 204, 931-941. | 4.6 | 297 |
| 11 | Catchment hydrologic response with a fully distributed triangulated irregular network model. Water Resources Research, 2004, 40, . | 1.7 | 268 |
| 12 | Extended triple collocation: Estimating errors and correlation coefficients with respect to an unknown target. Geophysical Research Letters, 2014, 41, 6229-6236. | 1.5 | 260 |
| 13 | An Algorithm for Merging SMAP Radiometer and Radar Data for High-Resolution Soil-Moisture Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1504-1512. | 2.7 | 244 |
| 14 | Land data assimilation and estimation of soil moisture using measurements from the Southern Great Plains 1997 Field Experiment. Water Resources Research, 2002, 38, 35-1-35-18. | 1.7 | 237 |
| 15 | Analysis of evaporative fraction diurnal behaviour. Agricultural and Forest Meteorology, 2007, 143, 13-29. | 1.9 | 233 |
| 16 | The role of the Siberian high in northern hemisphere climate variability. Geophysical Research Letters, 2001, 28, 299-302. | 1.5 | 200 |
| 17 | Regionally strong feedbacks between the atmosphere and terrestrial biosphere. Nature Geoscience, 2017, 10, 410-414. | 5.4 | 197 |
| 18 | On the spatial organization of soil moisture fields. Geophysical Research Letters, 1995, 22, 2757-2760. | 1.5 | 193 |

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| 19 | Downscaling of radio brightness measurements for soil moisture estimation: A four-dimensional variational data assimilation approach. Water Resources Research, 2001, 37, 2353-2364. | 1.7 | 180 |
| 20 | The SMAP and Copernicus Sentinel 1A/B microwave active-passive high resolution surface soil moisture product. Remote Sensing of Environment, 2019, 233, 111380. | 4.6 | 175 |
| 21 | Vegetation optical depth and scattering albedo retrieval using time series of dual-polarized L-band radiometer observations. Remote Sensing of Environment, 2016, 172, 178-189. | 4.6 | 171 |
| 22 | The quasi-periodic behavior of rainfall variability in Africa and its relationship to the southern oscillation. Archives for Meteorology, Geophysics and Bioclimatology, Series A, 1986, 34, 311-348. | 0.4 | 169 |
| 23 | Preserving high-resolution surface and rainfall data in operational-scale basin hydrology: a fully-distributed physically-based approach. Journal of Hydrology, 2004, 298, 80-111. | 2.3 | 164 |
| 24 | L-band vegetation optical depth and effective scattering albedo estimation from SMAP. Remote Sensing of Environment, 2017, 198, 460-470. | 4.6 | 160 |
| 25 | Generation of Triangulated Irregular Networks Based on Hydrological Similarity. Journal of Hydrologic Engineering - ASCE, 2004, 9, 288-302. | 0.8 | 144 |
| 26 | Tests of the SMAP Combined Radar and Radiometer Algorithm Using Airborne Field Campaign Observations and Simulated Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2018-2028. | 2.7 | 144 |
| 27 | Estimation of Surface Turbulent Fluxes through Assimilation of Radiometric Surface Temperature Sequences. Journal of Hydrometeorology, 2004, 5, 145-159. | 0.7 | 137 |
| 28 | Modeled Northern Hemisphere Winter Climate Response to Realistic Siberian Snow Anomalies. Journal of Climate, 2003, 16, 3917-3931. | 1.2 | 136 |
| 29 | The Diurnal Behavior of Evaporative Fraction in the Soil–Vegetation–Atmospheric Boundary Layer Continuum. Journal of Hydrometeorology, 2011, 12, 1530-1546. | 0.7 | 111 |
| 30 | An ensemble-based reanalysis approach to land data assimilation. Water Resources Research, 2005, 41, . | 1.7 | 109 |
| 31 | A Comparative Study of the SMAP Passive Soil Moisture Product With Existing Satellite-Based Soil Moisture Products. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2959-2971. | 2.7 | 108 |
| 32 | Assessing the Performance of the Ensemble Kalman Filter for Land Surface Data Assimilation. Monthly Weather Review, 2006, 134, 2128-2142. | 0.5 | 106 |
| 33 | Mapping of Land-Atmosphere Heat Fluxes and Surface Parameters with Remote Sensing Data. Boundary-Layer Meteorology, 2003, 107, 605-633. | 1.2 | 104 |
| 34 | Land data assimilation with satellite measurements for the estimation of surface energy balance components and surface control on evaporation. Water Resources Research, 2001, 37, 1713-1722. | 1.7 | 98 |
| 35 | An initial assessment of SMAP soil moisture retrievals using highâ€resolution model simulations and in situ observations. Geophysical Research Letters, 2016, 43, 9662-9668. | 1.5 | 97 |
| 36 | A multiâ€resolution ensemble study of a tropical urban environment and its interactions with the background regional atmosphere. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9804-9818. | 1.2 | 96 |

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| 37 | Variational estimation of soil and vegetation turbulent transfer and heat flux parameters from sequences of multisensor imagery. Water Resources Research, 2004, 40, . | 1.7 | 95 |
| 38 | Evolution of Atmospheric Response to Early-Season Eurasian Snow Cover Anomalies. Monthly Weather Review, 2001, 129, 2746-2760. | 0.5 | 94 |
| 39 | Hillslope and Climatic Controls on Hydrologic Fluxes. Water Resources Research, 1995, 31, 1725-1739. | 1.7 | 91 |
| 40 | Basin hydrologic response relations to distributed physiographic descriptors and climate. Journal of Hydrology, 2001, 247, 169-182. | 2.3 | 91 |
| 41 | A Wireless Soil Moisture Smart Sensor Web Using Physics-Based Optimal Control: Concept and Initial Demonstrations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 522-535. | 2.3 | 91 |
| 42 | Estimation of surface heat flux and an index of soil moisture using adjoint-state surface energy balance. Water Resources Research, 1999, 35, 3115-3125. | 1.7 | 89 |
| 43 | On the effects of triangulated terrain resolution on distributed hydrologic model response. Hydrological Processes, 2005, 19, 2101-2122. | 1.1 | 88 |
| 44 | Large-Eddy Simulation of Flow and Pollutant Transport in Urban Street Canyons with Ground Heating. Boundary-Layer Meteorology, 2010, 137, 187-204. | 1.2 | 88 |
| 45 | Global characterization of surface soil moisture drydowns. Geophysical Research Letters, 2017, 44, 3682-3690. | 1.5 | 87 |
| 46 | Linking Siberian Snow Cover to Precursors of Stratospheric Variability. Journal of Climate, 2014, 27, 5422-5432. | 1.2 | 85 |
| 47 | Retrievals of soil moisture and vegetation optical depth using a multi-channel collaborative algorithm. Remote Sensing of Environment, 2021, 257, 112321. | 4.6 | 80 |
| 48 | Flow and Pollutant Transport in Urban Street Canyons of Different Aspect Ratios with Ground Heating: Large-Eddy Simulation. Boundary-Layer Meteorology, 2012, 142, 289-304. | 1.2 | 77 |
| 49 | Equivalent steady soil moisture profile and the time compression approximation in water balance modeling. Water Resources Research, 1994, 30, 2737-2749. | 1.7 | 76 |
| 50 | Sensitivity of atmospheric response to modeled snow anomaly characteristics. Journal of Geophysical Research, 2004, 109, n/a-n/a. | 3.3 | 75 |
| 51 | Moisture pulse-reserve in the soil-plant continuum observed across biomes. Nature Plants, 2018, 4, 1026-1033. | 4.7 | 75 |
| 52 | Probabilistic analysis of the effects of climate change on groundwater recharge. Water Resources Research, 2010, 46, . | 1.7 | 73 |
| 53 | Detecting forest response to droughts with global observations of vegetation water content. Global Change Biology, 2021, 27, 6005-6024. | 4.2 | 73 |
| 54 | Land surface state and flux estimation using the ensemble Kalman smoother during the Southern Great Plains 1997 field experiment. Water Resources Research, 2006, 42, . | 1.7 | 70 |

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| 55 | Extending the Predictability of Hydrometeorological Flood Events Using Radar Rainfall Nowcasting. Journal of Hydrometeorology, 2006, 7, 660-677. | 0.7 | 69 |
| 56 | L-band vegetation optical depth seasonal metrics for crop yield assessment. Remote Sensing of Environment, 2018, 212, 249-259. | 4.6 | 69 |
| 57 | Surface Soil Moisture Retrieval Using the L-Band Synthetic Aperture Radar Onboard the Soil Moisture Active–Passive Satellite and Evaluation at Core Validation Sites. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1897-1914. | 2.7 | 64 |
| 58 | Improved SMAP Dual-Channel Algorithm for the Retrieval of Soil Moisture. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3894-3905. | 2.7 | 62 |
| 59 | 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. | 2.3 | 62 |
| 60 | Evaluating the effects of image filtering in short-term radar rainfall forecasting for hydrological applications. Meteorological Applications, 2006, 13, 289. | 0.9 | 61 |
| 61 | The SMAP mission combined active-passive soil moisture product at 9†km and 3†km spatial resolutions. Remote Sensing of Environment, 2018, 211, 204-217. | 4.6 | 59 |
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| 63 | Global-scale assessment and inter-comparison of recently developed/reprocessed microwave satellite vegetation optical depth products. Remote Sensing of Environment, 2021, 253, 112208. | 4.6 | 58 |
| 64 | How Many Parameters Can Be Maximally Estimated From a Set of Measurements?. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1081-1085. | 1.4 | 54 |
| 65 | Soil and Atmospheric Controls on the Land Surface Energy Balance: A Generalized Framework for Distinguishing Moistureâ€Limited and Energyâ€Limited Evaporation Regimes. Water Resources Research, 2018, 54, 1831-1851. | 1.7 | 54 |
| 66 | Comprehensive analysis of alternative downscaled soil moisture products. Remote Sensing of Environment, 2020, 239, 111586. | 4.6 | 52 |
| 67 | Relative impacts of Siberian and North American snow anomalies on the winter Arctic Oscillation. Geophysical Research Letters, 2003, 30, . | 1.5 | 50 |
| 68 | Large-scale atmospheric patterns associated with mesoscale features leading to extreme precipitation events in Northwestern Italy. Advances in Water Resources, 2005, 28, 601-614. | 1.7 | 49 |
| 69 | A remote sensing observatory for hydrologic sciences: A genesis for scaling to continental hydrology. Water Resources Research, 2006, 42, . | 1.7 | 49 |
| 70 | Hydrological Storage Length Scales Represented by Remote Sensing Estimates of Soil Moisture and Precipitation. Water Resources Research, 2018, 54, 1476-1492. | 1.7 | 48 |
| 71 | A Method for Upscaling In Situ Soil Moisture Measurements to Satellite Footprint Scale Using Random Forests. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2663-2673. | 2.3 | 47 |
| 72 | Microwave Observatory of Subcanopy and Subsurface (MOSS): A Mission Concept for Global Deep Soil Moisture Observations. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2630-2643. | 2.7 | 46 |

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| 73 | A long term global daily soil moisture dataset derived from AMSR-E and AMSR2 (2002–2019). Scientific Data, 2021, 8, 143. | 2.4 | 44 |
| 74 | Impact of Hillslope-Scale Organization of Topography, Soil Moisture, Soil Temperature, and Vegetation on Modeling Surface Microwave Radiation Emission. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2557-2571. | 2.7 | 43 |
| 75 | Error Propagation of Radar Rainfall Nowcasting Fields through a Fully Distributed Flood Forecasting Model. Journal of Applied Meteorology and Climatology, 2007, 46, 932-940. | 0.6 | 42 |
| 76 | Hemispheric-scale climate response to Northern Eurasia land surface characteristics and snow anomalies. Global and Planetary Change, 2007, 56, 359-370. | 1.6 | 41 |
| 77 | Estimation of Landscape Soil Water Losses from Satellite Observations of Soil Moisture. Journal of Hydrometeorology, 2018, 19, 871-889. | 0.7 | 41 |
| 78 | Scale-recursive assimilation of precipitation data. Advances in Water Resources, 2001, 24, 941-953. | 1.7 | 40 |
| 79 | Sensitivity of L-band vegetation optical depth to carbon stocks in tropical forests: a comparison to higher frequencies and optical indices. Remote Sensing of Environment, 2019, 232, 111303. | 4.6 | 40 |
| 80 | Analysis of the Radar Vegetation Index and Potential Improvements. Remote Sensing, 2018, 10, 1776. | 1.8 | 38 |
| 81 | Terrain and Multiple-Scale Interactions as Factors in Generating Extreme Precipitation Events. Journal of Hydrometeorology, 2004, 5, 390-404. | 0.7 | 37 |
| 82 | Satelliteâ€Based Assessment of Land Surface Energy Partitioning–Soil Moisture Relationships and Effects of Confounding Variables. Water Resources Research, 2019, 55, 10657-10677. | 1.7 | 37 |
| 83 | Impact of Multiresolution Active and Passive Microwave Measurements on Soil Moisture Estimation Using the Ensemble Kalman Smoother. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1016-1028. | 2.7 | 36 |
| 84 | Sensitivity of Aquarius Active and Passive Measurements Temporal Covariability to Land Surface Characteristics. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4700-4711. | 2.7 | 36 |
| 85 | Short-Term and Long-Term Surface Soil Moisture Memory Time Scales Are Spatially Anticorrelated at Global Scales. Journal of Hydrometeorology, 2019, 20, 1165-1182. | 0.7 | 35 |
| 86 | Satellite and Station Observations Demonstrate Water Availability's Effect on Continentalâ€Scale Evaporative and Photosynthetic Land Surface Dynamics. Water Resources Research, 2019, 55, 540-554. | 1.7 | 34 |
| 87 | SMAP Detects Soil Moisture Under Temperate Forest Canopies. Geophysical Research Letters, 2020, 47, e2020GL089697. | 1.5 | 34 |
| 88 | The NASA Soil Moisture Active Passive (SMAP) mission: Overview. , 2010, , . | | 33 |
| 89 | The role of model dynamics in ensemble Kalman filter performance for chaotic systems. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 63, 958. | 0.8 | 33 |
| 90 | River basin salinization as a form of aridity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17635-17642. | 3.3 | 33 |

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| 91 | SMAP Soil Moisture Change as an Indicator of Drought Conditions. Remote Sensing, 2018, 10, 788. | 1.8 | 32 |
| 92 | Hydrological extremes in hyperarid regions: A diagnostic characterization of intense precipitation over the Central Arabian Peninsula. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1637-1650. | 1.2 | 31 |
| 93 | Uncertainty Estimates in the SMAP Combined Active–Passive Downscaled Brightness Temperature. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 640-650. | 2.7 | 31 |
| 94 | Embedding landscape processes into triangulated terrain models. International Journal of Geographical Information Science, 2005, 19, 429-457. | 2.2 | 29 |
| 95 | Using data assimilation to identify diffuse recharge mechanisms from chemical and physical data in the unsaturated zone. Water Resources Research, 2009, 45, . | 1.7 | 29 |
| 96 | Characterization of higher-order scattering from vegetation with SMAP measurements. Remote Sensing of Environment, 2018, 219, 324-338. | 4.6 | 29 |
| 97 | Uncertainty Analysis of Soil Moisture and Vegetation Indices Using Aquarius Scatterometer Observations. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4259-4272. | 2.7 | 28 |
| 98 | Assessment of Multi-Scale SMOS and SMAP Soil Moisture Products across the Iberian Peninsula. Remote Sensing, 2020, 12, 570. | 1.8 | 28 |
| 99 | Measurement Scheduling for Soil Moisture Sensing: From Physical Models to Optimal Control. Proceedings of the IEEE, 2010, 98, 1918-1933. | 16.4 | 27 |
| 100 | An Analogue Approach to Identify Heavy Precipitation Events: Evaluation and Application to CMIP5 Climate Models in the United States. Journal of Climate, 2014, 27, 5941-5963. | 1.2 | 27 |
| 101 | Validation of the SMAP freeze/thaw product using categorical triple collocation. Remote Sensing of Environment, 2018, 205, 329-337. | 4.6 | 27 |
| 102 | Landâ€Atmosphere Drivers of Landscapeâ€Scale Plant Water Content Loss. Geophysical Research Letters, 2020, 47, e2020GL090331. | 1.5 | 27 |
| 103 | Orographic Constraints on a Modeled Siberian Snow–Tropospheric–Stratospheric Teleconnection Pathway. Journal of Climate, 2004, 17, 1176-1189. | 1.2 | 26 |
| 104 | Wavelet correlations to reveal multiscale coupling in geophysical systems. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7555-7572. | 1.2 | 26 |
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| 107 | Validation of SMAP Soil Moisture Products Using Ground-Based Observations for the Paddy Dominated Tropical Region of India. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8479-8491. | 2.7 | 25 |
| 108 | Estimation of active-passive microwave covariation using SMAP and Sentinel-1 data. Remote Sensing of Environment, 2019, 225, 458-468. | 4.6 | 25 |

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| 109 | Conditioning Stochastic Rainfall Replicates on Remote Sensing Data. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2436-2449. | 2.7 | 24 |
| 110 | Estimation of relative canopy absorption and scattering at L-, C- and X-bands. Remote Sensing of Environment, 2019, 233, 111384. | 4.6 | 24 |
| 111 | Hydrologic data assimilation with a hillslopeâ€scaleâ€resolving model and L band radar observations: Synthetic experiments with the ensemble Kalman filter. Water Resources Research, 2012, 48, . | 1.7 | 23 |
| 112 | An entropyâ€based measure of hydrologic complexity and its applications. Water Resources Research, 2015, 51, 5145-5160. | 1.7 | 22 |
| 113 | Partitioning Evapotranspiration Over the Continental United States Using Weather Station Data. Geophysical Research Letters, 2018, 45, 9605-9613. | 1.5 | 22 |
| 114 | Landscape Water Storage and Subsurface Correlation From Satellite Surface Soil Moisture and Precipitation Observations. Water Resources Research, 2019, 55, 9111-9132. | 1.7 | 22 |
| 115 | Boundary-Layer Entrainment Estimation Through Assimilation of Radiosonde and Micrometeorological Data into a Mixed-Layer Model. Boundary-Layer Meteorology, 2004, 110, 405-433. | 1.2 | 21 |
| 116 | Patterns of plant rehydration and growth following pulses of soil moisture availability. Biogeosciences, 2021, 18, 831-847. | 1.3 | 21 |
| 117 | Parameter estimation of coupled water and energy balance models based on stationary constraints of surface states. Water Resources Research, 2011, 47, . | 1.7 | 20 |
| 118 | Effect of Radiative Transfer Uncertainty on L-Band Radiometric Soil Moisture Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2686-2698. | 2.7 | 20 |
| 119 | Physics-Based Modeling of Active and Passive Microwave Covariations Over Vegetated Surfaces. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 788-802. | 2.7 | 20 |
| 120 | Estimation of land surface water and energy balance parameters using conditional sampling of surface states. Water Resources Research, 2014, 50, 1805-1822. | 1.7 | 19 |
| 121 | Quantifying Precipitation Uncertainty for Land Data Assimilation Applications. Monthly Weather Review, 2015, 143, 3276-3299. | 0.5 | 19 |
| 122 | Application of a hillslope-scale soil moisture data assimilation system to military trafficability assessment. Journal of Terramechanics, 2014, 51, 53-66. | 1.4 | 18 |
| 123 | Mean-velocity profile of smooth channel flow explained by a cospectral budget model with wall-blockage. Physics of Fluids, 2016, 28, . | 1.6 | 18 |
| 124 | Mapping land water and energy balance relations through conditional sampling of remote sensing estimates of atmospheric forcing and surface states. Water Resources Research, 2016, 52, 2737-2752. | 1.7 | 18 |
| 125 | Plant Osmoregulation as an Emergent Water‣aving Adaptation. Water Resources Research, 2018, 54, 2781-2798. | 1.7 | 18 |
| 126 | Spatiotemporal Disaggregation of Remotely Sensed Precipitation for Ensemble Hydrologic Modeling and Data Assimilation. Journal of Hydrometeorology, 2006, 7, 511-533. | 0.7 | 16 |

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| 127 | The Effect of Variable Soil Moisture Profiles on P-Band Backscatter. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6315-6325. | 2.7 | 16 |
| 128 | Mapped Hydroclimatology of Evapotranspiration and Drainage Runoff Using SMAP Brightness Temperature Observations and Precipitation Information. Water Resources Research, 2019, 55, 3391-3413. | 1.7 | 16 |
| 129 | Impact of soil heterogeneity in a mixed-layer model of the planetary boundary layer. Hydrological Sciences Journal, 1998, 43, 633-658. | 1.2 | 15 |
| 130 | Reproducibility of soil moisture ensembles when representing soil parameter uncertainty using a Latin Hypercube–based approach with correlation control. Water Resources Research, 2010, 46, . | 1.7 | 15 |
| 131 | An alternate and robust approach to calibration for the estimation of land surface model parameters based on remotely sensed observations. Geophysical Research Letters, 2011, 38, n/a-n/a. | 1.5 | 15 |
| 132 | Can Surface Soil Moisture Information Identify Evapotranspiration Regime Transitions?. Geophysical Research Letters, 2022, 49, . | 1.5 | 15 |
| 133 | Characterization of vegetation and soil scattering mechanisms across different biomes using P-band SAR polarimetry. Remote Sensing of Environment, 2018, 209, 107-117. | 4.6 | 13 |
| 134 | Terrestrial Evaporation and Moisture Drainage in a Warmer Climate. Geophysical Research Letters, 2020, 47, e2019GL086498. | 1.5 | 13 |
| 135 | Regularized Dual-Channel Algorithm for the Retrieval of Soil Moisture and Vegetation Optical Depth From SMAP Measurements. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 102-114. | 2.3 | 13 |
| 136 | Identification of runoff generation spatial distribution using conventional hydrologic gauge time series. Water Resources Research, 2006, 42, . | 1.7 | 12 |
| 137 | Active–Passive Soil Moisture Retrievals During the SMAP Validation Experiment 2012. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 475-479. | 1.4 | 12 |
| 138 | Landscapeâ€Scale Plant Water Content and Carbon Flux Behavior Following Moisture Pulses: From Dryland to Mesic Environments. Water Resources Research, 2021, 57, e2020WR027592. | 1.7 | 11 |
| 139 | Evaluation of Surface Melt on the Greenland Ice Sheet Using SMAP <i>L</i> -Band Microwave Radiometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 11439-11449. | 2.3 | 11 |
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| 141 | Role of large eddies in the breakdown of the Reynolds analogy in an idealized mildly unstable atmospheric surface layer. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2182-2197. | 1.0 | 10 |
| 142 | Soil and Vegetation Scattering Contributions in L-Band and P-Band Polarimetric SAR Observations. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8417-8429. | 2.7 | 10 |
| 143 | Consistency Between NASS Surveyed Soil Moisture Conditions and SMAP Soil Moisture Observations. Water Resources Research, 2019, 55, 7682-7693. | 1.7 | 10 |
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| 146 | Improving Brightness Temperature Measurements Near Coastal Areas for SMAP. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4578-4588. | 2.3 | 9 |
| 147 | Observed Landscape Responsiveness to Climate Forcing. Water Resources Research, 2022, 58, . | 1.7 | 9 |
| 148 | The Soil Moisture Active and Passive Mission (SMAP): Science and applications. , 2009, , . | | 8 |
| 149 | Combined Radar–Radiometer Surface Soil Moisture and Roughness Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4098-4110. | 2.7 | 8 |
| 150 | Relationship Between Vegetation Microwave Optical Depth and Cross-Polarized Backscatter From Multiyear Aquarius Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4493-4503. | 2.3 | 8 |
| 151 | Wireless Sensor Network Informed UAV Path Planning for Soil Moisture Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13. | 2.7 | 8 |
| 152 | High-resolution enhanced product based on SMAP active-passive approach using sentinel 1A and 1B SAR data. , 2017, , . | | 7 |
| 153 | Estimating Gravimetric Moisture of Vegetation Using an Attenuation-Based Multi-Sensor Approach. , 2018, , . | | 7 |
| 154 | Partitioning of Historical Precipitation Into Evaporation and Runoff Based on Hydrologic Dynamics Identified With Recent SMAP Satellite Measurements. Water Resources Research, 2020, 56, e2020WR027307. | 1.7 | 7 |
| 155 | Time-variations of zeroth-order vegetation absorption and scattering at L-band. Remote Sensing of Environment, 2021, 267, 112726. | 4.6 | 7 |
| 156 | Rainstorm statistics conditional on soil moisture index: Temporal and spatial characteristics. Meccanica, 1996, 31, 103-116. | 1.2 | 6 |
| 157 | Active–Passive Disaggregation of Brightness Temperatures During the SMAPVEX12 Campaign. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6859-6867. | 2.7 | 6 |
| 158 | Evaluation of SMAP Core Validation Site Representativeness Errors Using Dense Networks of <i>In Situ</i> Sensors and Random Forests. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 6457-6472. | 2.3 | 6 |
| 159 | Soil Moisture Retrieval Using SMAP L-Band Radiometer and RISAT-1 C-Band SAR Data in the Paddy Dominated Tropical Region of India. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10644-10664. | 2.3 | 6 |
| 160 | Structure in fluctuations of large-scale soil moisture climate due to external random forcing and internal feedbacks. Stochastic Hydrology & Hydraulics, 1997, 11, 95-114. | 0.5 | 4 |
| 161 | Multiple spaceborne water cycle observations would aid modeling. Eos, 2006, 87, 149. | 0.1 | 4 |
| 162 | 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. International Journal of Remote Sensing, 2013, 34, 3561-3586. | 1.3 | 4 |

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