

# Ardeshir Ebtehaj

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

397  
citations

687363

13  
h-index

752698

20  
g-index

25  
all docs

25  
docs citations

25  
times ranked

431  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A new SMAP soil moisture and vegetation optical depth product (SMAP-IB): Algorithm, assessment and inter-comparison. <i>Remote Sensing of Environment</i> , 2022, 271, 112921.  | 11.0 | 46        |
| 2  | Microwave retrievals of terrestrial precipitation over snow-covered surfaces: A lesson from the GPM satellite. <i>Geophysical Research Letters</i> , 2017, 44, 6154-6162.   | 4.0  | 36        |
| 3  | Microwave retrievals of soil moisture and vegetation optical depth with improved resolution using a combined constrained inversion algorithm: Application for SMAP satellite. <i>Remote Sensing of Environment</i> , 2020, 239, 111662.   | 11.0 | 34        |
| 4  | Global Estimates of Land Surface Water Fluxes from SMOS and SMAP Satellite Soil Moisture Data. <i>Journal of Hydrometeorology</i> , 2020, 21, 241-253.  | 1.9  | 27        |
| 5  | A physically constrained inversion for high-resolution passive microwave retrieval of soil moisture and vegetation water content in L-band. <i>Remote Sensing of Environment</i> , 2019, 233, 111346.                                     | 11.0 | 26        |
| 6  | Retrieving global surface soil moisture from GRACE satellite gravity data. <i>Journal of Hydrology</i> , 2020, 584, 124717.   | 5.4  | 24        |
| 7  | On variational downscaling, fusion, and assimilation of hydrometeorological states: A unified framework via regularization. <i>Water Resources Research</i> , 2013, 49, 5944-5963.  | 4.2  | 22        |
| 8  | Sparse regularization for precipitation downscaling. <i>Journal of Geophysical Research</i> , 2012, 117, .  | 3.3  | 21        |
| 9  | A Prognostic Nested k-Nearest Approach for Microwave Precipitation Phase Detection over Snow Cover. <i>Journal of Hydrometeorology</i> , 2019, 20, 251-274.   | 1.9  | 21        |
| 10 | Reappraisal of SMAP inversion algorithms for soil moisture and vegetation optical depth. <i>Remote Sensing of Environment</i> , 2021, 264, 112627.  | 11.0 | 20        |
| 11 | Downscaling Satellite Precipitation with Emphasis on Extremes: A Variational $\ell_1$ -Norm Regularization in the Derivative Domain. <i>Surveys in Geophysics</i> , 2014, 35, 765-783.  | 4.6  | 17        |
| 12 | Applications of a CloudSat-TRMM and CloudSat-GPM Satellite Coincidence Dataset. <i>Remote Sensing</i> , 2021, 13, 2264.   | 4.0  | 17        |
| 13 | Spatial Scale Gap Filling Using an Unmanned Aerial System: A Statistical Downscaling Method for Applications in Precision Agriculture. <i>Sensors</i> , 2017, 17, 2106.   | 3.8  | 13        |
| 14 | A deep neural network based SMAP soil moisture product. <i>Remote Sensing of Environment</i> , 2022, 277, 113059.   | 11.0 | 13        |
| 15 | A temporal polarization ratio algorithm for calibration-free retrieval of soil moisture at L-band. <i>Remote Sensing of Environment</i> , 2020, 249, 112019.  | 11.0 | 10        |
| 16 | Regularized variational data assimilation for bias treatment using the Wasserstein metric. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 2332-2346.   | 2.7  | 9         |
| 17 | A Spatially Constrained Multichannel Algorithm for Inversion of a First-Order Microwave Emission Model at L-Band. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 8134-8146.  | 6.3  | 9         |
| 18 | Passive Microwave Signatures and Retrieval of High-Latitude Snowfall Over Open Oceans and Sea Ice: Insights From Coincidences of GPM and CloudSat Satellites. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13. | 6.3  | 8         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Adapting Passive Microwave-Based Precipitation Algorithms to Variable Microwave Land Surface Emissivity to Improve Precipitation Estimation from the GPM Constellation. Journal of Hydrometeorology, 2021, , .           | 1.9 | 8         |
| 20 | Metric Learning for Approximation of Microwave Channel Error Covariance: Application for Satellite Retrieval of Drizzle and Light Snowfall. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 903-912.       | 6.3 | 7         |
| 21 | Variability and Changes of Unfrozen Soils Below Snowpack. Geophysical Research Letters, 2022, 49, .  | 4.0 | 4         |
| 22 | Constrained Inversion of a Microwave Snowpack Emission Model Using Dictionary Matching: Applications for GPM Satellite. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.                              | 6.3 | 2         |
| 23 | Vulnerability of Passive Microwave Snowfall Retrievals to Physical Properties of Snowpack: A Perspective From Dense Media Radiative Transfer Theory. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13. | 6.3 | 2         |
| 24 | Microwave retrievals of terrestrial precipitation over snow-covered surfaces: A lesson from the GPM satellite. , 2017, 44, 6154.   |     | 1         |
| 25 | The St. Anthony Falls Laboratory: 80 Years of Progress Part 2A Transition to Environmental Research. , 2018, , .   |     | 0         |