Ardeshir Ebtehaj

List of Publications by Year
in descending order

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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	Passive Microwave Signatures and Retrieval of High-Latitude Snowfall Over Open Oceans and Sea Ice: Insights From Coincidences of GPM and CloudSat Satellites. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	8
2	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
3	A new SMAP soil moisture and vegetation optical depth product (SMAP-IB): Algorithm, assessment and inter-comparison. Remote Sensing of Environment, 2022, 271, 112921.	11.0	46
4	Variability and Changes of Unfrozen Soils Below Snowpack. Geophysical Research Letters, 2022, 49, .	4.0	4
5	A deep neural network based SMAP soil moisture product. Remote Sensing of Environment, 2022, 277, 113059.	11.0	13
6	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
7	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
8	Applications of a CloudSat-TRMM and CloudSat-GPM Satellite Coincidence Dataset. Remote Sensing, 2021, 13, 2264.	4.0	17
9	Reappraisal of SMAP inversion algorithms for soil moisture and vegetation optical depth. Remote Sensing of Environment, 2021, 264, 112627.	11.0	20
10	Global Estimates of Land Surface Water Fluxes from SMOS and SMAP Satellite Soil Moisture Data. Journal of Hydrometeorology, 2020, 21, 241-253.	1.9	27
11	A temporal polarization ratio algorithm for calibration-free retrieval of soil moisture at L-band. Remote Sensing of Environment, 2020, 249, 112019.	11.0	10
12	Regularized variational data assimilation for bias treatment using the Wasserstein metric. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 2332-2346.	2.7	9
13	Retrieving global surface soil moisture from GRACE satellite gravity data. Journal of Hydrology, 2020, 584, 124717.	5.4	24
14	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
15	Microwave retrievals of soil moisture and vegetation optical depth with improved resolution using a combined constrained inversion algorithm: Application for SMAP satellite. Remote Sensing of Environment, 2020, 239, 111662.	11.0	34
16	A Spatially Constrained Multichannel Algorithm for Inversion of a First-Order Microwave Emission Model at L-Band. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8134-8146.	6.3	9
17	A physically constrained inversion for high-resolution passive microwave retrieval of soil moisture and vegetation water content in L-band. Remote Sensing of Environment, 2019, 233, 111346.	11.0	26
18	A Prognostic Nested k-Nearest Approach for Microwave Precipitation Phase Detection over Snow Cover. Journal of Hydrometeorology, 2019, 20, 251-274.	1.9	21

#	Article	IF	Citations
19	The St. Anthony Falls Laboratory: 80 Years of Progress Part 2A Transition to Environmental Research. , 2018, , .		0
20	Microwave retrievals of terrestrial precipitation over snowâ€covered surfaces: A lesson from the GPM satellite. Geophysical Research Letters, 2017, 44, 6154-6162.	4.0	36
21	Spatial Scale Gap Filling Using an Unmanned Aerial System: A Statistical Downscaling Method for Applications in Precision Agriculture. Sensors, 2017, 17, 2106.	3.8	13
22	Microwave retrievals of terrestrial precipitation over snow-covered surfaces: A lesson from the GPM satellite. , 2017, 44, 6154.		1
23	Downscaling Satellite Precipitation with Emphasis on Extremes: A Variational â„“1-Norm Regularization in the Derivative Domain. Surveys in Geophysics, 2014, 35, 765-783.	4.6	17
24	On variational downscaling, fusion, and assimilation of hydrometeorological states: A unified framework via regularization. Water Resources Research, 2013, 49, 5944-5963.	4.2	22
25	Sparse regularization for precipitation downscaling. Journal of Geophysical Research, 2012, 117, .	3.3	21