

Barton A Forman

List of Publications by Citations

Source: <https://exaly.com/author-pdf/675010/barton-a-forman-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

831
citations

14
h-index

28
g-index

49
ext. papers

977
ext. citations

5
avg, IF

4.31
L-index

#	Paper	IF	Citations
42	Assessment and Enhancement of MERRA Land Surface Hydrology Estimates. <i>Journal of Climate</i> , 2011 , 24, 6322-6338	4.4	365
41	Vegetation controls on soil moisture distribution in the Valles Caldera, New Mexico, during the North American monsoon. <i>Ecohydrology</i> , 2008 , 1, 225-238	2.5	57
40	Connecting Satellite Observations with Water Cycle Variables Through Land Data Assimilation: Examples Using the NASA GEOS-5 LDAS. <i>Surveys in Geophysics</i> , 2014 , 35, 577-606	7.6	49
39	High-resolution satellite-based cloud-coupled estimates of total downwelling surface radiation for hydrologic modelling applications. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 969-986	5.5	31
38	Using a Support Vector Machine and a Land Surface Model to Estimate Large-Scale Passive Microwave Brightness Temperatures Over Snow-Covered Land in North America. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015 , 8, 4431-4441	4.7	25
37	Implications of water constraints on electricity capacity expansion in the United States. <i>Nature Sustainability</i> , 2019 , 2, 206-213	22.1	24
36	Assimilation of MODIS Snow Cover Fraction Observations into the NASA Catchment Land Surface Model. <i>Remote Sensing</i> , 2018 , 10, 316	5	24
35	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 235-248	8.1	24
34	Evaluating the uncertainty of terrestrial water budget components over High Mountain Asia. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	22
33	Estimating snow mass in North America through assimilation of AMSR-E brightness temperature observations using the Catchment land surface model and support vector machines. <i>Water Resources Research</i> , 2018 , 54, 6488-6509	5.4	22
32	The spatial scale of model errors and assimilated retrievals in a terrestrial water storage assimilation system. <i>Water Resources Research</i> , 2013 , 49, 7457-7468	5.4	19
31	Comparison of passive microwave brightness temperature prediction sensitivities over snow-covered land in North America using machine learning algorithms and the Advanced Microwave Scanning Radiometer. <i>Remote Sensing of Environment</i> , 2015 , 170, 153-165	13.2	17
30	Exploring the Utility of Machine Learning-Based Passive Microwave Brightness Temperature Data Assimilation over Terrestrial Snow in High Mountain Asia. <i>Remote Sensing</i> , 2019 , 11, 2265	5	17
29	Quantifying the potential for reservoirs to secure future surface water yields in the world's largest river basins. <i>Environmental Research Letters</i> , 2018 , 13, 044026	6.2	14
28	Permafrost variability over the Northern Hemisphere based on the MERRA-2 reanalysis. <i>Cryosphere</i> , 2019 , 13, 2087-2110	5.5	14
27	Evaluation of ensemble-based distributed hydrologic model response with disaggregated precipitation products. <i>Water Resources Research</i> , 2008 , 44,	5.4	11
26	Atmospheric and Forest Decoupling of Passive Microwave Brightness Temperature Observations Over Snow-Covered Terrain in North America. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 3172-3189	4.7	10

25	Analyzing Machine Learning Predictions of Passive Microwave Brightness Temperature Spectral Difference Over Snow-Covered Terrain in High Mountain Asia. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	9
24	Probabilistic Stormwater Runoff and Water Quality Modeling of a Highway in Suburban Maryland. <i>Journal of Hydrologic Engineering - ASCE</i> , 2018 , 23, 05017034	1.8	8
23	Performance of Different Climate Data Sources in Mechanistic-Empirical Pavement Distress Analyses. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2018 , 144, 04017023	1.4	7
22	Alternative Source of Climate Data for Mechanistic-Empirical Pavement Performance Prediction. <i>Transportation Research Record</i> , 2015 , 2524, 83-91	1.7	7
21	Connecting Satellite Observations with Water Cycle Variables Through Land Data Assimilation: Examples Using the NASA GEOS-5 LDAS. <i>Space Sciences Series of ISSI</i> , 2013 , 577-606	0.1	7
20	Machine learning predictions of passive microwave brightness temperature over snow-covered land using the special sensor microwave imager (SSM/I). <i>Physical Geography</i> , 2017 , 38, 176-196	1.8	6
19	Integration of satellite-based passive microwave brightness temperature observations and an ensemble-based land data assimilation framework to improve snow estimation in forested regions 2017 ,		6
18	Evaluation and enhancement of permafrost modeling with the NASA Catchment Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2017 , 9, 2771-2795	7.1	6
17	River Regulation Alleviates the Impacts of Climate Change on U.S. Thermolectricity Production. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031618	4.4	5
16	Snow Ensemble Uncertainty Project (SEUP): quantification of snow water equivalent uncertainty across North America via ensemble land surface modeling. <i>Cryosphere</i> , 2021 , 15, 771-791	5.5	5
15	Evaluation of four different climate sources on pavement mechanistic-empirical design and impact of surface shortwave radiation. <i>International Journal of Pavement Engineering</i> , 2019 , 1-14	2.6	3
14	Achieving Breakthroughs in Global Hydrologic Science by Unlocking the Power of Multisensor, Multidisciplinary Earth Observations. <i>AGU Advances</i> , 2021 , 2, e2021AV000455	5.4	3
13	Comparison of Vertical Surface Deformation Estimates Derived From Space-Based Gravimetry, Ground-Based GPS, and Model-Based Hydrologic Loading Over Snow-Dominated Watersheds in the United States. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB019432	3.6	3
12	Evaluation of shortwave and longwave radiation models for mechanistic-empirical pavement analysis. <i>International Journal of Pavement Engineering</i> , 1-11	2.6	2
11	Prediction of Active Microwave Backscatter Over Snow-Covered Terrain Across Western Colorado Using a Land Surface Model and Support Vector Machine Regression.. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 14, 2403-2417	4.7	2
10	Exploration of Synthetic Terrestrial Snow Mass Estimation via Assimilation of AMSR-E Brightness Temperature Spectral Differences Using the Catchment Land Surface Model and Support Vector Machine Regression. <i>Water Resources Research</i> , 2021 , 57, e2020WR027490	5.4	2
9	Soil moisture estimation in South Asia via assimilation of SMAP retrievals. <i>Hydrology and Earth System Sciences</i> , 2022 , 26, 2221-2243	5.5	2
8	Estimation of Snow Mass Information via Assimilation of C-Band Synthetic Aperture Radar Backscatter Observations Into an Advanced Land Surface Model. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022 , 15, 862-875	4.7	1

- 7 Assimilation of Ground-Based GPS Observations of Vertical Displacement into a Land Surface Model to Improve Terrestrial Water Storage Estimates. *Water Resources Research*, **2021**, 57, e2020WR028763 5-4 1
- 6 Quantifying the observational requirements of a space-borne LiDAR snow mission. *Journal of Hydrology*, **2021**, 601, 126709 6 1
- 5 Impact of Covariance Localization on Ensemble Estimation of Surface Downwelling Longwave and Shortwave Radiation Fluxes. *Journal of Hydrometeorology*, **2012**, 13, 1301-1316 3-7
- 4 Exploring the Spatiotemporal Coverage of Terrestrial Snow Mass Using a Suite of Satellite Constellation Configurations. *Remote Sensing*, **2022**, 14, 633 5
- 3 Evaluation of GEOS-Simulated L-Band Microwave Brightness Temperature Using Aquarius Observations over Non-Frozen Land across North America. *Remote Sensing*, **2020**, 12, 3098 5
- 2 Estimating Terrestrial Snow Mass via Multi-Sensor Assimilation of Synthetic AMSR-E Brightness Temperature Spectral Differences and Synthetic GRACE Terrestrial Water Storage Retrievals. *Water Resources Research*, **2021**, 57, e2021WR029880 5-4
- 1 . *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 14, 8849-8863 4-7