

Barton A Forman

List of Publications by Year in Descending Order

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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	Exploring the Spatiotemporal Coverage of Terrestrial Snow Mass Using a Suite of Satellite Constellation Configurations. <i>Remote Sensing</i> , 2022 , 14, 633	5	
41	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
40	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
39	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
38	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
37	Assimilation of Ground-Based GPS Observations of Vertical Displacement into a Land Surface Model to Improve Terrestrial Water Storage Estimates. <i>Water Resources Research</i> , 2021 , 57, e2020WR028763	5.4	1
36	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
35	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
34	Estimating Terrestrial Snow Mass via Multi-Sensor Assimilation of Synthetic AMSR-E Brightness Temperature Spectral Differences and Synthetic GRACE Terrestrial Water Storage Retrievals. <i>Water Resources Research</i> , 2021 , 57, e2021WR029880	5.4	
33	Quantifying the observational requirements of a space-borne LiDAR snow mission. <i>Journal of Hydrology</i> , 2021 , 601, 126709	6	1
32	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 14, 8849-8863	4.7	
31	River Regulation Alleviates the Impacts of Climate Change on U.S. Thermoelectricity Production. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031618	4.4	5
30	Evaluation of GEOS-Simulated L-Band Microwave Brightness Temperature Using Aquarius Observations over Non-Frozen Land across North America. <i>Remote Sensing</i> , 2020 , 12, 3098	5	
29	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
28	Evaluating the uncertainty of terrestrial water budget components over High Mountain Asia. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	22
27	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
26	Implications of water constraints on electricity capacity expansion in the United States. <i>Nature Sustainability</i> , 2019 , 2, 206-213	22.1	24

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	Permafrost variability over the Northern Hemisphere based on the MERRA-2 reanalysis. <i>Cryosphere</i> , 2019 , 13, 2087-2110	5.5	14
23	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
22	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
21	Assimilation of MODIS Snow Cover Fraction Observations into the NASA Catchment Land Surface Model. <i>Remote Sensing</i> , 2018 , 10, 316	5	24
20	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
19	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
18	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
17	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
16	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
15	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
14	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
13	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
12	Alternative Source of Climate Data for Mechanistic-Empirical Pavement Performance Prediction. <i>Transportation Research Record</i> , 2015 , 2524, 83-91	1.7	7
11	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
10	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 235-248	8.1	24
9	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
8	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

7	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
6	Impact of Covariance Localization on Ensemble Estimation of Surface Downwelling Longwave and Shortwave Radiation Fluxes. <i>Journal of Hydrometeorology</i> , 2012 , 13, 1301-1316	3-7	
5	Assessment and Enhancement of MERRA Land Surface Hydrology Estimates. <i>Journal of Climate</i> , 2011 , 24, 6322-6338	4-4	365
4	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
3	Evaluation of ensemble-based distributed hydrologic model response with disaggregated precipitation products. <i>Water Resources Research</i> , 2008 , 44,	5-4	11
2	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
1	Evaluation of shortwave and longwave radiation models for mechanistic-empirical pavement analysis. <i>International Journal of Pavement Engineering</i> , 1-11	2-6	2