Matias Takala

List of Publications by Year
in descending order

19 papers	1,202 citations	758635 12 h-index	1125271 13 g-index
19 all docs	19 docs citations	19 times ranked	1839 citing authors

#	Article	IF	Citations
1	Impact of dynamic snow density on GlobSnow snow water equivalent retrieval accuracy. Cryosphere, 2021, 15, 2969-2981.	1.5	22
2	GlobSnow v3.0 Northern Hemisphere snow water equivalent dataset. Scientific Data, 2021, 8, 163.	2.4	58
3	Estimation of Hemispheric Snow Mass Evolution Based on Microwave Radiometry. , 2021, , .		0
4	Development of Dynamic Snow Density Methodology for GlobSnow SWE Retrieval. , 2021, , .		0
5	Patterns and trends of Northern Hemisphere snow mass from 1980 to 2018. Nature, 2020, 581, 294-298.	13.7	203
6	Snow depth estimation and historical data reconstruction over China based on a random forest machine learning approach. Cryosphere, 2020, 14, 1763-1778.	1.5	30
7	Assessing the Performances of FY-3D/MWRI and DMSP SSMIS in GlobSnow-2 Assimilation System for SWE Estimation. , 2020, , .		1
8	Assessment of Seasonal snow Cover Mass in Northern Hemisphere During the Satellite-ERA. , 2018, , .		1
9	The accuracy of snow melt-off day derived from optical and microwave radiometer data â€" A study for Europe. Remote Sensing of Environment, 2018, 211, 1-12.	4.6	22
10	Early snowmelt significantly enhances boreal springtime carbon uptake. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11081-11086.	3.3	84
11	New Snow Water Equivalent Processing System With Improved Resolution Over Europe and its Applications in Hydrology. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 428-436.	2.3	17
12	Assessing global satellite-based snow water equivalent datasets in ESA SnowPEx project. , 2016, , .		2
13	Evaluation of North Eurasian snow-off dates in the ECHAM5.4 atmospheric general circulation model. Geoscientific Model Development, 2014, 7, 3037-3057.	1.3	5
14	Estimating northern hemisphere snow water equivalent for climate research through assimilation of space-borne radiometer data and ground-based measurements. Remote Sensing of Environment, 2011, 115, 3517-3529.	4.6	481
15	Correcting for the influence of frozen lakes in satellite microwave radiometer observations through application of a microwave emission model. Remote Sensing of Environment, 2011, 115, 3695-3706.	4.6	20
16	Experimental Study on Radiometric Performance of Synthetic Aperture Radiometer HUT-2Dâ€"Measurements of Natural Targets. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 814-826.	2.7	16
17	SNOWCARBO: Monitoring and assessment of carbon balance related phenomena in Finland and northern Eurasia. , 2011, , .		1
18	Detection of Snowmelt Using Spaceborne Microwave Radiometer Data in Eurasia From 1979 to 2007. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2996-3007.	2.7	78

#	ARTICLE	IF	CITATIONS
19	Artificial neural network-based techniques for the retrieval of SWE and snow depth from SSM/I data. Remote Sensing of Environment, 2004, 90, 76-85.	4.6	161