

Kari Luojus

List of Publications by Year in descending order

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39
papers

1,544
citations

516710

16
h-index

677142

22
g-index

52
all docs

52
docs citations

52
times ranked

2299
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating northern hemisphere snow water equivalent for climate research through assimilation of space-borne radiometer data and ground-based measurements. <i>Remote Sensing of Environment</i> , 2011, 115, 3517-3529.	11.0	481
2	Patterns and trends of Northern Hemisphere snow mass from 1980 to 2018. <i>Nature</i> , 2020, 581, 294-298.	27.8	203
3	Changing Arctic snow cover: A review of recent developments and assessment of future needs for observations, modelling, and impacts. <i>Ambio</i> , 2016, 45, 516-537.	5.5	154
4	Introduction to GlobSnow Snow Extent products with considerations for accuracy assessment. <i>Remote Sensing of Environment</i> , 2015, 156, 96-108.	11.0	85
5	Evaluation of long-term Northern Hemisphere snow water equivalent products. <i>Cryosphere</i> , 2020, 14, 1579-1594.	3.9	85
6	Evaluation of snow products over the Tibetan Plateau. <i>Hydrological Processes</i> , 2015, 29, 3247-3260.	2.6	84
7	An optical reflectance model-based method for fractional snow cover mapping applicable to continental scale. <i>Remote Sensing of Environment</i> , 2012, 123, 508-521.	11.0	69
8	GlobSnow v3.0 Northern Hemisphere snow water equivalent dataset. <i>Scientific Data</i> , 2021, 8, 163.	5.3	58
9	Effect of reindeer grazing on snowmelt, albedo and energy balance based on satellite data analyses. <i>Remote Sensing of Environment</i> , 2013, 135, 107-117.	11.0	52
10	Snow-Covered Area Estimation Using Satellite Radar Wide-Swath Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 978-989.	6.3	41
11	Closing the Water Cycle from Observations across Scales: Where Do We Stand?. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1897-E1935.	3.3	31
12	Snow depth estimation and historical data reconstruction over China based on a random forest machine learning approach. <i>Cryosphere</i> , 2020, 14, 1763-1778.	3.9	30
13	Accuracy assessment of SAR data-based snow-covered area estimation method. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 277-287.	6.3	28
14	The accuracy of snow melt-off day derived from optical and microwave radiometer data – A study for Europe. <i>Remote Sensing of Environment</i> , 2018, 211, 1-12.	11.0	22
15	Impact of dynamic snow density on GlobSnow snow water equivalent retrieval accuracy. <i>Cryosphere</i> , 2021, 15, 2969-2981.	3.9	22
16	New Snow Water Equivalent Processing System With Improved Resolution Over Europe and its Applications in Hydrology. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 428-436.	4.9	17
17	User requirements for the snow and land ice services – CryoLand. <i>Cryosphere</i> , 2015, 9, 1191-1202.	3.9	14
18	Evaluation of Simulated Snow and Snowmelt Timing in the Community Land Model Using Satellite-Based Products and Streamflow Observations. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2933-2951.	3.8	12

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19	Evaluation of Northern Hemisphere snow water equivalent in CMIP6 models during 1982–2014. <i>Cryosphere</i> , 2022, 16, 1007-1030.	3.9	11
20	Comparison of SAR-Based Snow-Covered Area Estimation Methods for the Boreal Forest Zone. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2009, 6, 403-407.	3.1	8
21	Investigating hemispherical trends in snow accumulation using GlobSnow snow water equivalent data. , 2011, , .		7
22	Determination of uncertainty characteristics for the satellite data-based estimation of fractional snow cover. <i>Remote Sensing of Environment</i> , 2018, 212, 103-113.	11.0	7
23	Evaluation of North Eurasian snow-off dates in the ECHAM5.4 atmospheric general circulation model. <i>Geoscientific Model Development</i> , 2014, 7, 3037-3057.	3.6	5
24	Evaluation of Northern Hemisphere and regional snow extent products within ESA SnowPEX-project. , 2017, , .		3
25	New approach for the global mapping of fractional snow coverage in boreal forest and tundra belt applicable to various sensors. , 2010, , .		2
26	Assessing global satellite-based snow water equivalent datasets in ESA SnowPEX project. , 2016, , .		2
27	Evaluation of Northern Hemisphere Snow Extent products within ESA SnowPEX-project. , 2016, , .		2
28	A new global Snow Extent product based on ATSR-2 and AATSR. , 2010, , .		1
29	Spring-time fractional snow cover mapping in Northern Hemisphere with NPP Suomi/VIIRS within ESA DUE GlobSnow-2 project. , 2014, , .		1
30	Comparison of SSMIS, AMSR-E and MWRI brightness temperature data. , 2014, , .		1
31	Assessment of Seasonal snow Cover Mass in Northern Hemisphere During the Satellite-ERA. , 2018, , .		1
32	Assessing the Performances of FY-3D/MWRI and DMSP SSMIS in GlobSnow-2 Assimilation System for SWE Estimation. , 2020, , .		1
33	Hydrological applications of super resolution SWE processing system over Europe. , 2016, , .		0
34	Long term changes in Northern hemisphere snow cover from SWE timeseries constrained with SE data. , 2017, , .		0
35	Future mission concepts for measuring snow mass. , 2017, , .		0
36	The Pan-European Yearly Snow Melt-Off Day Derived from Optical and Microwave Radiometer Data. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	Development of SWE Retrieval Methods in the ESA Snow CCI Project And Long Term Trends in Seasonal Snow Mass. , 2019, , .		0
38	Estimation of Hemispheric Snow Mass Evolution Based on Microwave Radiometry. , 2021, , .		0
39	Development of Dynamic Snow Density Methodology for GlobSnow SWE Retrieval. , 2021, , .		0