

Aku Riihelä

List of Publications by Year in descending order

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46
papers

1,284
citations

471371

17
h-index

377752

34
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63
all docs

63
docs citations

63
times ranked

1989
citing authors

#	ARTICLE	IF	CITATIONS
1	Airborne Measurements of Surface Albedo and Leaf Area Index of Snow-Covered Boreal Forest. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	6
2	Cloud-probability-based estimation of black-sky surface albedo from AVHRR data. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 879-893.	1.2	2
3	Evaluation of Northern Hemisphere snow water equivalent in CMIP6 models during 1982-2014. <i>Cryosphere</i> , 2022, 16, 1007-1030.	1.5	11
4	Comparison of irradiance forecasts from operational NWP model and satellite-based estimates over Fennoscandia. <i>Meteorological Applications</i> , 2022, 29, .	0.9	4
5	Effect of small-scale snow surface roughness on snow albedo and reflectance. <i>Cryosphere</i> , 2021, 15, 793-820.	1.5	15
6	Recent strengthening of snow and ice albedo feedback driven by Antarctic sea-ice loss. <i>Nature Geoscience</i> , 2021, 14, 832-836.	5.4	25
7	On the Land-Sea Contrast in the Surface Solar Radiation (SSR) in the Baltic Region. <i>Remote Sensing</i> , 2020, 12, 3509.	1.8	4
8	Global horizontal irradiance forecast for Finland based on geostationary weather satellite data. <i>Solar Energy</i> , 2020, 198, 68-80.	2.9	38
9	Diurnal Black-Sky Surface Albedo Parameterization of Snow. <i>Journal of Applied Meteorology and Climatology</i> , 2020, 59, 1415-1428.	0.6	5
10	Black and White-Sky Albedo Values of Snow: <i>In Situ</i> Relationships for AVHRR-Based Estimation Using CLARA-A2 SAL. <i>Canadian Journal of Remote Sensing</i> , 2019, 45, 350-367.	1.1	9
11	Intercomparison of Snow Melt Onset Date Estimates From Optical and Microwave Satellite Instruments Over the Northern Hemisphere for the Period 1982-2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11205-11219.	1.2	5
12	The Atmospheric Imaging Mission for Northern Regions: AIM-North. <i>Canadian Journal of Remote Sensing</i> , 2019, 45, 423-442.	1.1	14
13	The surface albedo of the Greenland Ice Sheet between 1982 and 2015 from the CLARA-A2 dataset and its relationship to the ice sheet's surface mass balance. <i>Cryosphere</i> , 2019, 13, 2597-2614.	1.5	24
14	Intercalibration of Polar-Orbiting Spectral Radiometers Without Simultaneous Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1507-1519.	2.7	1
15	An Overview of European Efforts in Generating Climate Data Records. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 349-359.	1.7	26
16	The Role of Climate and Land Use in the Changes in Surface Albedo Prior to Snow Melt and the Timing of Melt Season of Seasonal Snow in Northern Land Areas of 40°N-80°N during 1982-2015. <i>Remote Sensing</i> , 2018, 10, 1619.	1.8	14
17	Comparative Validation of Clear Sky Irradiance Models over Finland. , 2018, , .		2
18	Quantifying the amplified bias of PV system simulations due to uncertainties in solar radiation estimates. <i>Solar Energy</i> , 2018, 176, 663-677.	2.9	35

#	ARTICLE	IF	CITATIONS
19	A Multisensor Approach to Global Retrievals of Land Surface Albedo. <i>Remote Sensing</i> , 2018, 10, 848.	1.8	3
20	Validation of the SARA-E Satellite-Based Surface Solar Radiation Estimates over India. <i>Remote Sensing</i> , 2018, 10, 392.	1.8	24
21	An intercomparison and validation of satellite-based surface radiative energy flux estimates over the Arctic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4829-4848.	1.2	39
22	Quality control of global solar radiation data with satellite-based products. <i>Solar Energy</i> , 2017, 158, 49-62.	2.9	60
23	Extensive validation of CM SAF surface radiation products over Europe. <i>Remote Sensing of Environment</i> , 2017, 199, 171-186.	4.6	80
24	Detection of snow surface roughness and hoar at Summit, Greenland, using RADARSAT data. <i>International Journal of Remote Sensing</i> , 2016, 37, 2860-2880.	1.3	3
25	Validation of CM SAF Surface Solar Radiation Datasets over Finland and Sweden. <i>Remote Sensing</i> , 2015, 7, 6663-6682.	1.8	39
26	Analysis of current validation practices in Europe for space-based climate data records of essential climate variables. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 42, 150-161.	1.4	35
27	The temporal and spatial variability in submeter scale surface roughness of seasonal snow in Sodankylä Finnish Lapland in 2009-2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9236-9252.	1.2	7
28	Evaluation of North Eurasian snow-off dates in the ECHAM5.4 atmospheric general circulation model. <i>Geoscientific Model Development</i> , 2014, 7, 3037-3057.	1.3	5
29	Hemispherical-directional reflectance factor measurements of snow on the Greenland Ice Sheet during the Radiation, Snow Characteristics and Albedo at Summit (RASCALS) campaign. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 280-289.	1.1	12
30	High temporal resolution estimations of the Arctic sea ice albedo during the melting and refreezing periods of the years 2003-2011. <i>Remote Sensing of Environment</i> , 2014, 140, 604-613.	4.6	7
31	Observed changes in the albedo of the Arctic sea-ice zone for the period 1982-2009. <i>Nature Climate Change</i> , 2013, 3, 895-898.	8.1	68
32	About UV albedo of seasonal snow at Sodankylä including Arctic - Antarctic comparison aspects. , 2013, , .		0
33	CLARA-A1: a cloud, albedo, and radiation dataset from 28 yr of global AVHRR data. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5351-5367.	1.9	122
34	CLARA-SAL: a global 28 yr timeseries of Earth's black-sky surface albedo. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3743-3762.	1.9	146
35	Spectral albedo of seasonal snow during intensive melt period at Sodankylä, beyond the Arctic Circle. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3793-3810.	1.9	54
36	Atmospheric effect on the ground-based measurements of broadband surface albedo. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2675-2688.	1.2	17

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37	The change of seasonal snow surface roughness in Sodankylä; finnish lapland during winters 2009 and 2010. , 2012, , .		0
38	Boreal forest albedo and LAI in SNORTEX 2008–2010. , 2012, , .		2
39	Shortwave broadband black-sky surface albedo estimation for Arctic sea ice using passive microwave radiometer data. Journal of Geophysical Research, 2011, 116, .	3.3	4
40	Validation of the Climate-SAF surface broadband albedo product: Comparisons with in situ observations over Greenland and the ice-covered Arctic Ocean. Remote Sensing of Environment, 2010, 114, 2779-2790.	4.6	27
41	Land Surface Albedos Computed from BRF Measurements with a Study of Conversion Formulae. Remote Sensing, 2010, 2, 1918-1940.	1.8	16
42	Surface Albedo of the inner Arctic: Validation of the Climate-SAF satellite Albedo Product with in-situ observations. , 2010, , .		1
43	Operational climate monitoring from space: the EUMETSAT Satellite Application Facility on Climate Monitoring (CM-SAF). Atmospheric Chemistry and Physics, 2009, 9, 1687-1709.	1.9	225
44	SNORTEX (Snow Reflectance Transition Experiment): Remote sensing measurement of the dynamic properties of the boreal snow-forest in support to climate and weather forecast: Report of IOP-2008. , 2009, , .		7
45	Measuring the vertical albedo profile of a subarctic boreal forest canopy. Silva Fennica, 2008, 42, .	0.5	8
46	Estimation of the bidirectional reflectance distribution function of subarctic boreal forest using C-band SAR. , 2007, , .		1