

A Terhikki Manninen

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,983
citations

394286

19
h-index

254106

43
g-index

77
all docs

77
docs citations

77
times ranked

2758
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of global moderate-resolution LAI products: a framework proposed within the CEOS land product validation subgroup. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1804-1817.	2.7	341
2	On the characterization of agricultural soil roughness for radar remote sensing studies. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 630-640.	2.7	233
3	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
4	CLARA-SAL: a global 28 yr timeseries of Earth's black-sky surface albedo. Atmospheric Chemistry and Physics, 2013, 13, 3743-3762.	1.9	146
5	Reduced simple ratio better than NDVI for estimating LAI in Finnish pine and spruce stands. Silva Fennica, 2004, 38, .	0.5	118
6	Observed changes in the albedo of the Arctic sea-ice zone for the period 1982-2009. Nature Climate Change, 2013, 3, 895-898.	8.1	68
7	Coupling forest canopy and understory reflectance in the Arctic latitudes of Finland. Remote Sensing of Environment, 2007, 110, 332-343.	4.6	57
8	Spectral albedo of seasonal snow during intensive melt period at Sodankylä, beyond the Arctic Circle. Atmospheric Chemistry and Physics, 2013, 13, 3793-3810.	1.9	54
9	Simulation of the effect of snow covered forest floor on the total forest albedo. Agricultural and Forest Meteorology, 2009, 149, 303-319.	1.9	53
10	Leaf area index estimation of boreal forest using ENVISAT ASAR. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2627-2635.	2.7	48
11	Brief communication: Light-absorbing impurities can reduce the density of melting snow. Cryosphere, 2014, 8, 991-995.	1.5	35
12	Analysis of current validation practices in Europe for space-based climate data records of essential climate variables. International Journal of Applied Earth Observation and Geoinformation, 2015, 42, 150-161.	1.4	35
13	Application of ERS-1 wind scatterometer data to soil frost and soil moisture monitoring in boreal forest zone. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 849-863.	2.7	31
14	A new approach for simulating forest albedo based on spectral invariants. Remote Sensing of Environment, 2013, 137, 12-16.	4.6	30
15	Geographical gradients in boreal forest albedo and structure in Finland. Remote Sensing of Environment, 2014, 152, 526-535.	4.6	28
16	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
17	An Overview of European Efforts in Generating Climate Data Records. Bulletin of the American Meteorological Society, 2018, 99, 349-359.	1.7	26
18	Effective UV surface albedo of seasonally snow-covered lands. Atmospheric Chemistry and Physics, 2007, 7, 2759-2764.	1.9	24

#	ARTICLE	IF	CITATIONS
19	Leaf Area Index (LAI) Estimation of Boreal Forest Using Wide Optics Airborne Winter Photos. Remote Sensing, 2009, 1, 1380-1394.	1.8	24
20	Worldwide Survey of Awareness and Needs Concerning Reanalyses and Respondents Views on Climate Services. Bulletin of the American Meteorological Society, 2016, 97, 1461-1473.	1.7	23
21	Validation of MODIS and GEOV1 fPAR Products in a Boreal Forest Site in Finland. Remote Sensing, 2015, 7, 1359-1379.	1.8	21
22	Automatic Segment-Level Tree Species Recognition Using High Resolution Aerial Winter Imagery. European Journal of Remote Sensing, 2016, 49, 239-259.	1.7	20
23	Leaf Area Index Estimation of Boreal and Subarctic Forests Using VV/HH ENVISAT/ASAR Data of Various Swaths. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3899-3909.	2.7	18
24	Atmospheric effect on the ground-based measurements of broadband surface albedo. Atmospheric Measurement Techniques, 2012, 5, 2675-2688.	1.2	17
25	Multidecadal analysis of forest growth and albedo in boreal Finland. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 296-305.	1.4	17
26	Land Surface Albedos Computed from BRF Measurements with a Study of Conversion Formulae. Remote Sensing, 2010, 2, 1918-1940.	1.8	16
27	Airborne Estimation of Boreal Forest LAI in Winter Conditions: A Test Using Summer and Winter Ground Truth. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 68-74.	2.7	16
28	The effect of clumping on canopy scattering and its directional properties: a model simulation using spectral invariants. International Journal of Remote Sensing, 2015, 36, 5178-5191.	1.3	16
29	Snow surface roughness from mobile laser scanning data. Cold Regions Science and Technology, 2013, 96, 23-35.	1.6	15
30	A System for Acquisition, Processing and Visualization of Image Time Series from Multiple Camera Networks. Data, 2018, 3, 23.	1.2	15
31	Effect of small-scale snow surface roughness on snow albedo and reflectance. Cryosphere, 2021, 15, 793-820.	1.5	15
32	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. Remote Sensing, 2018, 10, 1619.	1.8	14
33	Automatic snow surface roughness estimation using digital photos. Journal of Glaciology, 2012, 58, 993-1007.	1.1	12
34	The Aerosol Index and Land Cover Class Based Atmospheric Correction Aerosol Optical Depth Time Series 1982–2014 for the SMAC Algorithm. Remote Sensing, 2017, 9, 1095.	1.8	9
35	Black and White-Sky Albedo Values of Snow: <i>In Situ</i> Relationships for AVHRR-Based Estimation Using CLARA-A2 SAL. Canadian Journal of Remote Sensing, 2019, 45, 350-367.	1.1	9
36	Monitoring changes in forestry and seasonal snow using surface albedo during 1982–2016 as an indicator. Biogeosciences, 2019, 16, 223-240.	1.3	8

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37	Very High Spatial Resolution Soil Moisture Observation of Heterogeneous Subarctic Catchment Using Nonlocal Averaging and Multitemporal SAR Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-17.	2.7	8
38	Measuring the vertical albedo profile of a subarctic boreal forest canopy. <i>Silva Fennica</i> , 2008, 42, .	0.5	8
39	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
40	The temporal and spatial variability in submeter scale surface roughness of seasonal snow in Sodankylä Finnish Lapland in 2009â€“2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9236-9252.	1.2	7
41	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
42	C-band scattering simulation of a Scots pine shoot. <i>Waves in Random and Complex Media</i> , 2007, 17, 85-98.	1.6	6
43	A Simple Method to Determine the Timing of Snow Melt by Remote Sensing with Application to the CO2 Balances of Northern Mire and Heath Ecosystems. <i>Remote Sensing</i> , 2009, 1, 1097-1107.	1.8	6
44	Airborne Measurements of Surface Albedo and Leaf Area Index of Snowâ€“Covered Boreal Forest. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	6
45	Cloud statistics-based estimation of land surface albedo from AVHRR data. , 2004, , .		5
46	Intercomparison of Snow Melt Onset Date Estimates From Optical and Microwave Satellite Instruments Over the Northern Hemisphere for the Period 1982â€“2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11205-11219.	1.2	5
47	Diurnal Black-Sky Surface Albedo Parameterization of Snow. <i>Journal of Applied Meteorology and Climatology</i> , 2020, 59, 1415-1428.	0.6	5
48	Estimation of boreal forest LAI using C-band SAR. , 0, , .		4
49	Shortwave broadband black-sky surface albedo estimation for Arctic sea ice using passive microwave radiometer data. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	4
50	RADIOMETRIC CALIBRATION OF TLS INTENSITY: APPLICATION TO SNOW COVER CHANGE DETECTION. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XXXVIII-5/W12, 175-179.	0.2	4
51	Filling gaps of black-sky surface albedo of the Arctic sea ice using gradient boosting and brightness temperature data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 107, 102701.	1.4	4
52	High resolution boreal forest LAI maps using dual polarization SAR images. , 2012, , .		3
53	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
54	A Multisensor Approach to Global Retrievals of Land Surface Albedo. <i>Remote Sensing</i> , 2018, 10, 848.	1.8	3

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55	The effect of snow at forest floor on boreal forest albedo diurnal and seasonal variation during the melting season. Cold Regions Science and Technology, 2021, 185, 103249.	1.6	3
56	Estimation of boreal forest LAI in winter conditions: Test of a new method using wide optics airborne images. , 2010, , .		2
57	Boreal forest albedo and LAI in SNORTEX 2008–2010. , 2012, , .		2
58	The Effect of Snow on Boreal Forest Albedo. , 2018, , .		2
59	Cloud-probability-based estimation of black-sky surface albedo from AVHRR data. Atmospheric Measurement Techniques, 2022, 15, 879-893.	1.2	2
60	Boreal forest LAI retrieval using both optical and microwave data of ENVISAT. , 0, , .		1
61	Estimation of the bidirectional reflectance distribution function of subarctic boreal forest using C-band SAR. , 2007, , .		1
62	Subarctic Boreal Forest Albedo Estimation Using Envisat ASAR for BRDF Determination. , 2008, , .		1
63	Surface Albedo of the inner Arctic: Validation of the Climate-SAF satellite Albedo Product with in-situ observations. , 2010, , .		1
64	Intercalibration of Polar-Orbiting Spectral Radiometers Without Simultaneous Observations. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1507-1519.	2.7	1
65	Pixel Based Multitemporal Sentinel-1 SAR Despeckling PIMSAR. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
66	Nonlocal Multiscale Single Image Statistics From Sentinel-1 SAR Data for High Resolution Bitemporal Forest Wind Damage Detection. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
67	JERS-1 SAR data in forest biomass mapping in northern taiga zone. , 2007, , .		0
68	The change of seasonal snow surface roughness in Sodankylä finnish lapland during winters 2009 and 2010. , 2012, , .		0
69	About UV albedo of seasonal snow at Sodankyla including Arctic - Antarctic comparison aspects. , 2013, , .		0