Jouni Pulliainen

List of Publications by Year
in descending order

236 papers	7,529 citations	57719 44 h-index	60583 81 g-index
240 all docs	240 docs citations	240 times ranked	5860 citing authors

#	Article	IF	Citations
1	Evolution of snow and ice temperature, thickness and energy balance in Lake Orajärvi, northern Finland. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 66, 21564.	0.8	43
2	The impact of meteorological conditions on snow and ice thickness in an Arctic lake. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 68, 31590.	0.8	5
3	Validation of Soil Moisture Data Products From the NASA SMAP Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 364-392.	2.3	62
4	Overview: Recent advances in the understanding of the northern Eurasian environments and of the urban air quality in China â€" a Pan-Eurasian Experiment (PEEX) programme perspective. Atmospheric Chemistry and Physics, 2022, 22, 4413-4469.	1.9	9
5	Attenuation of Radar Signal by a Boreal Forest Canopy in Winter. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	3
6	Sentinel-1 based soil freeze/thaw estimation in boreal forest environments. Remote Sensing of Environment, 2021, 254, 112267.	4.6	10
7	Impact of dynamic snow density on GlobSnow snow water equivalent retrieval accuracy. Cryosphere, 2021, 15, 2969-2981.	1.5	22
8	GlobSnow v3.0 Northern Hemisphere snow water equivalent dataset. Scientific Data, 2021, 8, 163.	2.4	58
9	Inter-annual variation in lake ice composition in the European Arctic: observations based on high-resolution thermistor strings. Earth System Science Data, 2021, 13, 3967-3978.	3.7	6
10	Estimation of Hemispheric Snow Mass Evolution Based on Microwave Radiometry. , 2021, , .		0
11	Development of Dynamic Snow Density Methodology for GlobSnow SWE Retrieval. , 2021, , .		0
12	Solving Challenges of Assimilating Microwave Remote Sensing Signatures With a Physical Model to Estimate Snow Water Equivalent. Water Resources Research, 2021, 57, e2021WR030119.	1.7	7
13	Spaceâ€Based Observations for Understanding Changes in the Arcticâ€Boreal Zone. Reviews of Geophysics, 2020, 58, e2019RG000652.	9.0	39
14	SodSAR: A Tower-Based 1â€"10 GHz SAR System for Snow, Soil and Vegetation Studies. Sensors, 2020, 20, 6702.	2.1	6
15	Patterns and trends of Northern Hemisphere snow mass from 1980 to 2018. Nature, 2020, 581, 294-298.	13.7	203
16	Laboratory, field, mast-borne and airborne spectral reflectance measurements of boreal landscape during spring. Earth System Science Data, 2020, 12, 719-740.	3.7	6
17	Sustainable earth observations for the Arctic, the Antarctic and the high-altitude mountain cold regions. International Journal of Digital Earth, 2019, 12, 858-859.	1.6	1
18	The Influence of Thermal Properties and Canopy- Intercepted Snow on Passive Microwave Transmissivity of a Scots Pine. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5424-5433.	2.7	18

#	Article	IF	Citations
19	Development of SWE Retrieval Methods in the ESA Snow CCI Project And Long Term Trends in Seasonal Snow Mass. , 2019, , .		0
20	Spectral reflectance behavior of different boreal snow types. Journal of Glaciology, 2019, 65, 926-939.	1.1	6
21	A Modeling-Based Approach for Soil Frost Detection in the Northern Boreal Forest Region With C-Band SAR. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1069-1083.	2.7	14
22	Reflectance variation in boreal landscape during the snow melting period using airborne imaging spectroscopy. International Journal of Applied Earth Observation and Geoinformation, 2019, 76, 66-76.	1.4	5
23	Validation of the SMAP freeze/thaw product using categorical triple collocation. Remote Sensing of Environment, 2018, 205, 329-337.	4.6	27
24	Determination of uncertainty characteristics for the satellite data-based estimation of fractional snow cover. Remote Sensing of Environment, 2018, 212, 103-113.	4.6	7
25	Season -Length Observations of Active and Passive Microwave Signatures of Snow Cover in a Boreal Forest Environment. , 2018, , .		2
26	The Pan-European Yearly Snow Melt-Off Day Derived from Optical and Microwave Radiometer Data. , 2018, , .		0
27	Soil Permittivity and Soil Frost Retrievals Using a Synergistic Method for Active and Passive Microwave Instruments. , 2018, , .		0
28	Spatially Distributed Evaluation of ESA CCI Soil Moisture Products in a Northern Boreal Forest Environment. Geosciences (Switzerland), 2018, 8, 51.	1.0	16
29	Smos Retrievals of Soil Freezing and Thawing and its Applications. , 2018, , .		2
30	Assessment of Seasonal snow Cover Mass in Northern Hemisphere During the Satellite-ERA. , 2018, , .		1
31	Observations for Reanalyses. Bulletin of the American Meteorological Society, 2018, 99, 1851-1866.	1.7	35
32	Retrieval of Effective Correlation Length and Snow Water Equivalent from Radar and Passive Microwave Measurements. Remote Sensing, 2018, 10, 170.	1.8	42
33	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
34	Validation of SMAP surface soil moisture products with core validation sites. Remote Sensing of Environment, 2017, 191, 215-231.	4.6	503
35	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
36	Coupling SNOWPACK-modeled grain size parameters with the HUT snow emission model. Remote Sensing of Environment, 2017, 194, 33-47.	4.6	15

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37	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
38	Long term changes in Northern hemisphere snow cover from SWE timeseries constrained with SE data. , 2017, , .		0
39	Nordic Snow Radar Experiment. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 403-415.	0.6	37
40	Sodankylä manual snow survey program. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 163-179.	0.6	36
41	Spatial and temporal variation of bulk snow properties in northern boreal and tundra environments based on extensive field measurements. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 347-363.	0.6	9
42	The Sodankylä in situ soil moisture observation network: an example application of ESAÂCCI soil moisture product evaluation. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 95-108.	0.6	28
43	Evaluating Biosphere Model Estimates of the Start of the Vegetation Active Season in Boreal Forests by Satellite Observations. Remote Sensing, 2016, 8, 580.	1.8	17
44	Active Microwave Scattering Signature of Snowpack—Continuous Multiyear SnowScat Observation Experiments. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3849-3869.	2.3	8
45	Assessing global satellite-based snow water equivalent datasets in ESA SnowPEx project. , 2016, , .		2
46	Hydrological applications of super resolution SWE processing system over Europe. , 2016, , .		0
47	Where do the treeless tundra areas of northern highlands fit in the global biome system: toward an ecologically natural subdivision of the tundra biome. Ecology and Evolution, 2016, 6, 143-158.	0.8	69
48	SMOS prototype algorithm for detecting autumn soil freezing. Remote Sensing of Environment, 2016, 180, 346-360.	4.6	109
49	Implications of boreal forest stand characteristics for X-band SAR flood mapping accuracy. Remote Sensing of Environment, 2016, 186, 47-63.	4.6	28
50	Retrieval of snow parameters from L-band observations - application for SMOS and SMAP. , 2016, , .		4
51	Differences Between the HUT Snow Emission Model and MEMLS and Their Effects on Brightness Temperature Simulation. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2001-2019.	2.7	28
52	Snow density and ground permittivity retrieved from L-band radiometry: Application to experimental data. Remote Sensing of Environment, 2016, 180, 377-391.	4.6	60
53	Comparison of traditional and optical grain-size field measurements with SNOWPACK simulations in a taiga snowpack. Journal of Glaciology, 2015, 61, 151-162.	1.1	33
54	Potential of L-band passive microwave radiometry for snow parameter retrieval. , 2015, , .		0

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55	User requirements for the snow and land ice services â€" CryoLand. Cryosphere, 2015, 9, 1191-1202.	1.5	14
56	The Effect of Boreal Forest Canopy in Satellite Snow Mappingâ€"A Multisensor Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6593-6607.	2.7	30
57	Evaluation of snow products over the Tibetan Plateau. Hydrological Processes, 2015, 29, 3247-3260.	1.1	84
58	Effects of Meteorological and Ancillary Data, Temporal Averaging, and Evaluation Methods on Model Performance and Uncertainty in a Land Surface Model. Journal of Hydrometeorology, 2015, 16, 2559-2576.	0.7	22
59	Snow Density and Ground Permittivity Retrieved from L-Band Radiometry: A Synthetic Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3833-3845.	2.3	59
60	Introduction to GlobSnow Snow Extent products with considerations for accuracy assessment. Remote Sensing of Environment, 2015, 156, 96-108.	4.6	85
61	Simulating seasonally and spatially varying snow cover brightness temperature using HUT snow emission model and retrieval of a microwave effective grain size. Remote Sensing of Environment, 2015, 156, 71-95.	4.6	37
62	Snow stratigraphic heterogeneity within groundâ€based passive microwave radiometer footprints: Implications for emission modeling. Journal of Geophysical Research F: Earth Surface, 2014, 119, 550-565.	1.0	24
63	Performance inter-comparison of soil moisture retrieval models for the MetOp-A ASCAT instrument. , 2014, , .		11
64	Semi-empirical modeling of the scene reflectance of snow-covered boreal forest: Validation with airborne spectrometer and LIDAR observations. Remote Sensing of Environment, 2014, 155, 303-311.	4.6	16
65	Physical properties of Arctic versus subarctic snow: Implications for high latitude passive microwave snow water equivalent retrievals. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7254-7270.	1.2	39
66	Monitoring snow parameters in boreal forest using multi-frequency SAR data. , 2014, , .		1
67	Spring-time fractional snow cover mapping in Northern Hemisphere with NPP Suomi/VIIRS within ESA DUE GlobSnow-2 project. , 2014, , .		1
68	Comparison of SSMIS, AMSR-E and MWRI brightness temperature data. , 2014, , .		1
69	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
70	Detection of soil freezing from L-band passive microwave observations. Remote Sensing of Environment, 2014, 147, 206-218.	4.6	120
71	MODIS time-series-derived indicators for the beginning of the growing season in boreal coniferous forest â€" A comparison with CO2 flux measurements and phenological observations in Finland. Remote Sensing of Environment, 2014, 140, 625-638.	4.6	36
72	Model for microwave emission of a snow-covered ground with focus on L band. Remote Sensing of Environment, 2014, 154, 180-191.	4.6	62

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73	Observation and Modeling of the Microwave Brightness Temperature of Snow-Covered Frozen Lakes and Wetlands. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3275-3288.	2.7	14
74	The effect of boreal forest canopy to reflectance of snow covered terrain based on airborne imaging spectrometer observations. International Journal of Applied Earth Observation and Geoinformation, 2014, 27, 31-41.	1.4	8
75	MODIS-derived snow-free ground reflectance statistics of selected Eurasian non-forested land cover types for the application of estimating fractional snow cover. Remote Sensing of Environment, 2013, 138, 51-64.	4.6	5
76	Effect of reindeer grazing on snowmelt, albedo and energy balance based on satellite data analyses. Remote Sensing of Environment, 2013, 135, 107-117.	4.6	52
77	COREH2O: High-resolution X/Ku-band radar imaging of cold land processes. , 2013, , .		2
78	Electromagnetic simulation and validation of backscattering from boreal forest in the C-Ku frequency range. , 2013, , .		0
79	L-Band Radiometer Observations of Soil Processes in Boreal and Subarctic Environments. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1483-1497.	2.7	106
80	Algorithm for retrieval of snow mass from Ku- and X-band radar backscatter measurements. , 2012, , .		3
81	CoReH<inf>2</inf>O, a dual frequency radar mission for snow and ice observations. , 2012, , .		7
82	Evaluation of passive microwave brightness temperature simulations and snow water equivalent retrievals through a winter season. Remote Sensing of Environment, 2012, 117, 236-248.	4.6	65
83	An optical reflectance model-based method for fractional snow cover mapping applicable to continental scale. Remote Sensing of Environment, 2012, 123, 508-521.	4.6	69
84	The behaviour of mast-borne spectra in a snow-covered boreal forest. Remote Sensing of Environment, 2012, 124, 551-563.	4.6	16
85	Hemispheric snow water equivalent: The need for a synergistic approach. Eos, 2012, 93, 305-305.	0.1	4
86	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
87	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
88	Investigating hemispherical trends in snow accumulation using GlobSnow snow water equivalent data. , 2011, , .		7
89	Effects of snowpack parameters and layering processes at X- and Ku-band backscatter. , 2011, , .		0
90	SNOWCARBO: Monitoring and assessment of carbon balance related phenomena in Finland and northern Eurasia. , 2011, , .		1

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91	Analysis of active and passive microwave observations from the NoSREx campaign. , 2011, , .		5
92	Implementing hemispherical snow water equivalent product assimilating weather station observations and spaceborne microwave data. , 2011, , .		2
93	CoReH<inf>2</inf>0, a dual frequency radar satellite for COld REgions Hydrology. , 2011, , .		0
94	CryoLand - GMES Service Snow and Land Ice - Interoperability, Service Integration and User Access. IFIP Advances in Information and Communication Technology, 2011, , 341-348.	0.5	2
95	Multiple-Layer Adaptation of HUT Snow Emission Model: Comparison With Experimental Data. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2781-2794.	2.7	97
96	Correction to "Multiple-Layer Adaptation of HUT Snow Emission Model: Comparison With Experimental Data"[Jul 10 2781-2794. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3055-3055.	2.7	4
97	Cold Regions Hydrology High-Resolution Observatory for Snow and Cold Land Processes. Proceedings of the IEEE, 2010, 98, 752-765.	16.4	148
98	Observed and modelled effects of ice lens formation on passive microwave brightness temperatures over snow covered tundra. Remote Sensing of Environment, 2010, 114, 116-126.	4.6	74
99	A new global Snow Extent product based on ATSR-2 and AATSR. , 2010, , .		1
100	Observing seasonal snow changes in the boreal forest area using active and passive microwave measurements. , 2010, , .		3
101	Modeling attenuation of melting hydrometeors with a method based on volume integral equations. , 2010, , .		0
102	Combined hemispherical scale SWE and snow clearance monitoring. , 2010, , .		0
103	L-band measurements of boreal soil. , 2010, , .		3
104	Improving hydrological forecasting using multi-source remote sensing data together with in situ measurements. , 2010, , .		0
105	New approach for the global mapping of fractional snow coverage in boreal forest and tundra belt applicable to various sensors. , 2010, , .		2
106	Monitoring of Snow-Cover Properties During the Spring Melting Period in Forested Areas. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 50-58.	2.7	28
107	Simulation of Spaceborne Microwave Radiometer Measurements of Snow Cover Using <i>In Situ</i> Data and Brightness Temperature Modeling. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1031-1044.	2.7	46
108	CoReH<inf>2</inf>O - Cold Regions Hydrology High-esolution Observatory. , 2009, , .		3

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109	Evaluation of the single reference image snow-covered area estimation method for the boreal forest zone. , 2009, , .		3
110	Merging flat/forest and mountainous snow products for extended European area. , 2009, , .		3
111	Experimental validation activities of HUT snow emission model. , 2009, , .		0
112	Enhanced SAR-Based Snow-Covered Area Estimation Method for Boreal Forest Zone. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 922-935.	2.7	19
113	A Comparison of Airborne Microwave Brightness Temperatures and Snowpack Properties Across the Boreal Forests of Finland and Western Canada. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 965-978.	2.7	38
114	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
115	Comparison of SAR-Based Snow-Covered Area Estimation Methods for the Boreal Forest Zone. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 403-407.	1.4	8
116	The behaviour of snow and snow-free surface reflectance in boreal forests: Implications to the performance of snow covered area monitoring. Remote Sensing of Environment, 2009, 113, 907-918.	4.6	42
117	Using Multilook Averaging for Coherently Modeled Scattering From a Pine Tree at L-Band. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 162-166.	1.4	1
118	Monitoring of snow cover properties during the spring melting period in forested areas. , 2009, , .		1
119	Landsat ETM+ Images in the Estimation of Seasonal Lake Water Quality in Boreal River Basins. Environmental Management, 2008, 42, 511-522.	1.2	72
120	Detection of snow melt using different algorithms in global scale. , 2008, , .		2
121	Detecting the onset of snow€melt using SSM/I data and the self€organizing map. International Journal of Remote Sensing, 2008, 29, 755-766.	1.3	14
122	Analysis of Turbid Water Quality Using Airborne Spectrometer Data with a Numerical Weather Prediction Model-aided Atmospheric Correction. Photogrammetric Engineering and Remote Sensing, 2008, 74, 363-374.	0.3	6
123	Segment-based stem volume retrieval in boreal forests using multitemporal ERS-1/2 InSAR data. Canadian Journal of Remote Sensing, 2008, 34, 46-55.	1.1	4
124	Assimilating spaceborne radar and ground-based weather station data for operational snow-covered area estimation. , 2007, , .		2
125	Estimating the snow melt onset using AMSR-E data in Eurasia. , 2007, , .		3
126	Operational snow monitoring using satellite observations. , 2007, , .		1

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127	Operational snow map production for whole eurasia using microwave radiometer and ground-based observations. , 2007, , .		1
128	Reflectance spectroradiometer measurement system in 30 meter mast for validating satellite images. , 2007, , .		5
129	CoRe-H<inf>2</inf>O - A dual frequency SAR mission for hydrology and climate research. , 2007, , .		4
130	Validation of microwave emission models by simulating AMSR-E brightness temperature data from ground-based observations. , 2007, , .		1
131	A case study of airborne and satellite remote sensing of a spring bloom event in the Gulf of Finland. Continental Shelf Research, 2007, 27, 228-244.	0.9	84
132	A filtering approach for estimating lake water quality from remote sensing data. International Journal of Applied Earth Observation and Geoinformation, 2007, 9, 50-64.	1.4	25
133	Snow-Covered Area Estimation Using Satellite Radar Wide-Swath Images. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 978-989.	2.7	41
134	Modeling Snow Volume Backscatter Combining the Radiative Transfer Theory and the Discrete Dipole Approximation. , 2006, , .		3
135	A Comparison of Airborne Passive Microwave Brightness Temperatures and Snowpack Properties across the Boreal Forests of Finland and Western Canada. , 2006, , .		1
136	OBSERVATIONS OF L-AND C-BAND BACKSCATTER AND A SEMI-EMPIRICAL BACKSCATTERING MODEL APPROACH FROM A FOREST-SNOW-GROUND SYSTEM. Progress in Electromagnetics Research, 2006, 56, 263-281.	1.6	16
137	Mapping of snow water equivalent and snow depth in boreal and sub-arctic zones by assimilating space-borne microwave radiometer data and ground-based observations. Remote Sensing of Environment, 2006, 101, 257-269.	4.6	300
138	Accuracy assessment of SAR data-based snow-covered area estimation method. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 277-287.	2.7	28
139	Development of Techniques to Retrieve Snow Covered Area (SCA) in Boreal Forests from Space-borne Microwave Observations. , 2006, , .		1
140	Mapping of Snow Water Equivalent and Snow Coverage from Combined EO and in situ Data for Climatic Studies and Hydrological Forecasting Models. , 2006, , .		1
141	Investigating of snow wetness parameter using a two-phase backscattering model. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 1827-1833.	2.7	16
142	The combined use of optical remote sensing data and unattended flow–through fluorometer measurements in the Baltic Sea. International Journal of Remote Sensing, 2005, 26, 261-282.	1.3	19
143	Boreal Forest Coherence-Based Measures of Interferometric Pair Suitability for Operational Stem Volume Retrieval. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 228-231.	1.4	14
144	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

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145	Water Quality Classification of Lakes Using 250-m MODIS Data. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 287-291.	1.4	24
146	Regional water quality mapping through the assimilation of spaceborne remote sensing data to ship-based transect observations. Journal of Geophysical Research, 2004, 109, .	3.3	11
147	Feasibility of multi-temporal interferometric SAR data for stand-level estimation of boreal forest stem volume. Remote Sensing of Environment, 2003, 85, 397-409.	4.6	71
148	Water quality retrievals from combined landsat TM data and ERS-2 SAR data in the Gulf of Finland. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 622-629.	2.7	95
149	Two-year global simulation of L-band brightness temperatures over land. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 2135-2139.	2.7	108
150	Application of empirical neural networks to chlorophyll-a estimation in coastal waters using remote optosensors. IEEE Sensors Journal, 2003, 3, 376-382.	2.4	19
151	Feasibility of airborne imaging spectrometry for lake monitoring—a case study of spatial chlorophyll a distribution in two meso-eutrophic lakes. International Journal of Remote Sensing, 2003, 24, 3771-3790.	1.3	39
152	<title>Application of neural networks to AVHRR chlorophyll-a and turbidity estimation</title>. , 2002, , .		0
153	Applicability of Combined Microwave and Optical Data for Surface Water Quality Retrievals — Abstract. Journal of Electromagnetic Waves and Applications, 2002, 16, 249-251.	1.0	8
154	Water quality studies of combined optical, thermal infrared, and microwave remote sensing. Microwave and Optical Technology Letters, 2002, 34, 281-285.	0.9	4
155	Lake water quality classification with airborne hyperspectral spectrometer and simulated MERIS data. Remote Sensing of Environment, 2002, 79, 51-59.	4.6	214
156	Application of an empirical neural network to surface water quality estimation in the Gulf of Finland using combined optical data and microwave data. Remote Sensing of Environment, 2002, 81, 327-336.	4.6	168
157	Improved linear interpolation method for the estimation of snow-covered area from optical data. Remote Sensing of Environment, 2002, 82, 64-78.	4.6	59
158	Active and passive microwave remote sensing of boreal forests. Acta Astronautica, 2002, 51, 707-713.	1.7	6
159	Title is missing!. Journal of Infrared, Millimeter and Terahertz Waves, 2002, 23, 1407-1412.	0.6	2
160	The seasonal behavior of interferometric coherence in boreal forest. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 820-829.	2.7	50
161	Retrieval of water quality from airborne imaging spectrometry of various lake types in different seasons. Science of the Total Environment, 2001, 268, 59-77.	3.9	176
162	A semi-operative approach to lake water quality retrieval from remote sensing data. Science of the Total Environment, 2001, 268, 79-93.	3.9	122

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164	Effective Permittivity of Wet Snow Using Strong Fluctuation Theory - Abstract. Journal of Electromagnetic Waves and Applications, 2001, 15, 53-55.	1.0	11
165	Microwave Emission Model for Wet Snow By Using Radiative Transfer and Strong Fluctuation Theory - Abstract *. Journal of Electromagnetic Waves and Applications, 2001, 15, 57-59.	1.0	3
166	Retrieval of Regional Snow Water Equivalent from Space-Borne Passive Microwave Observations. Remote Sensing of Environment, 2001, 75, 76-85.	4.6	201
167	Application of Strong Fluctuation Theory To Microwave Emission From Dry Snow - Abstract. Journal of Electromagnetic Waves and Applications, 2000, 14, 829-830.	1.0	0
168	Multitemporal behavior of L- and C-band SAR observations of boreal forests. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 927-937.	2.7	122
169	Retrieval of biomass in boreal forests from multitemporal ERS-1 and JERS-1 SAR images. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 198-205.	2.7	126
170	HUT snow emission model and its applicability to snow water equivalent retrieval. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 1378-1390.	2.7	325
171	Seasonal comparison of HUTSCAT ranging scatterometer and ERS-1 SAR microwave signatures of boreal forest zone. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 2068-2079.	2.7	8
172	Effective Permittivity of Dry Snow in the 18 To 90 GHz Range - Abstract. Journal of Electromagnetic Waves and Applications, 1999, 13, 1393-1394.	1.0	3
173	Subpixel Land Use Classification and Retrieval of Forest Stem Volume in the Boreal Forest Zone by Employing SSM/I Data. Remote Sensing of Environment, 1998, 63, 140-154.	4.6	5
174	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
175	Monitoring of boreal forests with multitemporal special sensor microwave imager data. Radio Science, 1998, 33, 731-744.	0.8	18
176	Monitoring of turbid coastal and inland waters by airborne imaging spectrometer AISA. , 1998, , .		1
177	Correlation Functions and Correlation Lengths for Dry Snow. Journal of Electromagnetic Waves and Applications, 1998, 12, 1337-1347.	1.0	6
178	Correlation functions and correlation lengths for dry snow. , 1998, , .		0
179	Estimation of snow water equivalent from SSM/I data by using a physical model-based inversion algorithm. , 1998, , .		2
180	Extinction behaviour of dry snow at microwave range up to 90 GHz by using strong fluctuation theory. , 1998, , .		2

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181	Radar-derived standwise forest inventory. IEEE Transactions on Geoscience and Remote Sensing, 1997, 35, 392-404.	2.7	26
182	The use of ERS-1 SAR data in snow melt monitoring. IEEE Transactions on Geoscience and Remote Sensing, 1997, 35, 601-610.	2.7	118
183	Retrieval of surface temperature in boreal forest zone from SSM/I data. IEEE Transactions on Geoscience and Remote Sensing, 1997, 35, 1188-1200.	2.7	42
184	Seasonal dynamics of C-band backscatter of boreal forests with applications to biomass and soil moisture estimation. IEEE Transactions on Geoscience and Remote Sensing, 1996, 34, 758-770.	2.7	92
185	Radar-based forest biomass estimation. International Journal of Remote Sensing, 1994, 15, 2797-2808.	1.3	86
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