Chris Derksen

List of Publications by Year
in descending order

189	8,516	38742 50	54911 84
papers	citations	h-index	g-index

198	198	198	7929
all docs	docs citations	times ranked	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. Remote Sensing of Environment, 2011, 115, 3517-3529.	11.0	481
2	Estimating Snow Water Equivalent Using Snow Depth Data and Climate Classes. Journal of Hydrometeorology, 2010, 11, 1380-1394.	1.9	336
3	Spring snow cover extent reductions in the 2008â€“2012 period exceeding climate model projections. Geophysical Research Letters, 2012, 39, .	4.0	316
4	Estimating snow-cover trends from space. Nature Climate Change, 2018, 8, 924-928.	18.8	218
5	A multiâ€data set analysis of variability and change in Arctic spring snow cover extent, 1967â€“2008. Journal of Geophysical Research, 2010, 115, .	3.3	207
6	Large near-term projected snowpack loss over the western United States. Nature Communications, 2017, 8, 14996.	12.8	203
7	Patterns and trends of Northern Hemisphere snow mass from 1980 to 2018. Nature, 2020, 581, 294-298.	27.8	203
8	State of the Climate in 2018. Bulletin of the American Meteorological Society, 2019, 100, Si-S306.	3.3	168
9	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	3.3	160
10	LS3MIP (v1.0) contribution to CMIP6: the Land Surface, Snow and Soil moisture Model Intercomparison Project â€“ aims, setup and expected outcome. Geoscientific Model Development, 2016, 9, 2809-2832.	3.6	152
11	Characterization of Northern Hemisphere Snow Water Equivalent Datasets, 1981â€“2010. Journal of Climate, 2015, 28, 8037-8051.	3.2	151
12	Evaluation of passive microwave snow water equivalent retrievals across the boreal forest/tundra transition of western Canada. Remote Sensing of Environment, 2005, 96, 315-327.	11.0	149
13	State of the Climate in 2015. Bulletin of the American Meteorological Society, 2016, 97, Si-S275.	3.3	142
14	State of the Climate in 2013. Bulletin of the American Meteorological Society, 2014, 95, S1-S279.	3.3	138
15	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	3.3	135
16	State of the Climate in 2016. Bulletin of the American Meteorological Society, 2017, 98, Si-S280.	3.3	132
17	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	3.3	129
18	Changing sea ice conditions and marine transportation activity in Canadian Arctic waters between 1990 and 2012. Climatic Change, 2014, 123, 161-173.	3.6	123

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19	ESM-SnowMIP: assessing snow models and quantifying snow-related climate feedbacks. Geoscientific Model Development, 2018, 11, 5027-5049.	3.6	119
20	A comparison of 18 winter seasons of in situ and passive microwave-derived snow water equivalent estimates in Western Canada. Remote Sensing of Environment, 2003, 88, 271-282.	11.0	115
21	Historical Northern Hemisphere snow cover trends and projected changes in the CMIP6 multi-model ensemble. Cryosphere, 2020, 14, 2495-2514.	3.9	115
22	Retrieving landscape freeze/thaw state from Soil Moisture Active Passive (SMAP) radar and radiometer measurements. Remote Sensing of Environment, 2017, 194, 48-62.	11.0	113
23	SMOS prototype algorithm for detecting autumn soil freezing. Remote Sensing of Environment, 2016, 180, 346-360.	11.0	109
24	The contribution of AMSR-E 18.7 and 10.7ÂGHz measurements to improved boreal forest snow water equivalent retrievals. Remote Sensing of Environment, 2008, 112, 2701-2710.	11.0	104
25	Assessment of spring snow cover duration variability over northern Canada from satellite datasets. Remote Sensing of Environment, 2007, 111, 367-381.	11.0	100
26	Multiple-Layer Adaptation of HUT Snow Emission Model: Comparison With Experimental Data. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2781-2794.	6.3	97
27	Canadian snow and sea ice: historical trends and projections. Cryosphere, 2018, 12, 1157-1176.	3.9	95
28	Snow cover response to temperature in observational and climate model ensembles. Geophysical Research Letters, 2017, 44, 919-926.	4.0	90
29	Development of a tundra-specific snow water equivalent retrieval algorithm for satellite passive microwave data. Remote Sensing of Environment, 2010, 114, 1699-1709.	11.0	89
30	Evaluation of long-term Northern Hemisphere snow water equivalent products. Cryosphere, 2020, 14, 1579-1594.	3.9	85
31	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.	7.1	84
32	Variability and change in the Canadian cryosphere. Climatic Change, 2012, 115, 59-88.	3.6	79
33	Northwest Territories and Nunavut Snow Characteristics from a Subarctic Traverse: Implications for Passive Microwave Remote Sensing. Journal of Hydrometeorology, 2009, 10, 448-463.	1.9	78
34	State of the Climate in 2014. Bulletin of the American Meteorological Society, 2015, 96, ES1-ES32.	3.3	78
35	Is Eurasian October snow cover extent increasing?. Environmental Research Letters, 2013, 8, 024006.	5.2	75
36	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.	11.0	74

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37	Recent changes in the exchange of sea ice between the Arctic Ocean and the Canadian Arctic Archipelago. Journal of Geophysical Research: Oceans, 2013, 118, 3595-3607.	2.6	69
38	Evaluation of Spaceborne L-Band Radiometer Measurements for Terrestrial Freeze/Thaw Retrievals in Canada. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4442-4459.	4.9	67
39	Evaluation of spring snow covered area depletion in the Canadian Arctic from NOAA snow charts. Remote Sensing of Environment, 2005, 95, 453-463.	11.0	66
40	Evaluation of passive microwave brightness temperature simulations and snow water equivalent retrievals through a winter season. Remote Sensing of Environment, 2012, 117, 236-248.	11.0	65
41	Coupling the snow thermodynamic model SNOWPACK with the microwave emission model of layered snowpacks for subarctic and arctic snow water equivalent retrievals. Water Resources Research, 2012, 48, .	4.2	65
42	Snow and Climate: Feedbacks, Drivers, and Indices of Change. Current Climate Change Reports, 2019, 5, 322-333.	8.6	64
43	Impact of 1, 2 and 4â€‰Â°C of global warming on ship navigation in the Canadian Arctic. Nature Climate Change, 2021, 11, 673-679.	18.8	61
44	Snow density and ground permittivity retrieved from L-band radiometry: Application to experimental data. Remote Sensing of Environment, 2016, 180, 377-391.	11.0	60
45	Characterization and Summary of the 1999â€“2005 Canadian Prairie Drought. Atmosphere - Ocean, 2011, 49, 421-452.	1.6	59
46	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.	4.9	59
47	Detection of pan-Arctic terrestrial snowmelt from QuikSCAT, 2000â€“2005. Remote Sensing of Environment, 2008, 112, 3794-3805.	11.0	58
48	GlobSnow v3.0 Northern Hemisphere snow water equivalent dataset. Scientific Data, 2021, 8, 163.	5.3	58
49	Brightness Temperature Simulations of the Canadian Seasonal Snowpack Driven by Measurements of the Snow Specific Surface Area. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4692-4704.	6.3	55
50	Snow Microwave Emission Modeling of Ice Lenses Within a Snowpack Using the Microwave Emission Model for Layered Snowpacks. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4705-4717.	6.3	54
51	Polar amplification and elevation-dependence in trends of Northern Hemisphere snow cover extent, 1971â€“2014. Environmental Research Letters, 2015, 10, 044010.	5.2	53
52	Population vulnerability to climate change linked to timing of breeding in boreal ducks. Global Change Biology, 2012, 18, 480-492.	9.5	52
53	Extending the QuikSCAT record of seasonal meltâ€“freeze transitions over Arctic sea ice using ASCAT. Remote Sensing of Environment, 2014, 141, 214-230.	11.0	50
54	Response of L-Band brightness temperatures to freeze/thaw and snow dynamics in a prairie environment from ground-based radiometer measurements. Remote Sensing of Environment, 2017, 191, 67-80.	11.0	50

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55	Quantifying the skill of CMIP5 models in simulating seasonal albedo and snow cover evolution. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5831-5849.	3.3	48
56	Recent changes in panâ€Arctic melt onset from satellite passive microwave measurements. Geophysical Research Letters, 2013, 40, 522-528.	4.0	47
57	Combining SMMR and SSM/I Data for Time Series Analysis of Central North American Snow Water Equivalent. Journal of Hydrometeorology, 2003, 4, 304-316.	1.9	46
58	A spatial statistical operator applied to multidate satellite imagery for identification of coral reef stress. Remote Sensing of Environment, 2004, 91, 271-279.	11.0	46
59	Investigating the spread in surface albedo for snowâ€covered forests in CMIP5 models. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1104-1119.	3.3	43
60	Retrieval of Effective Correlation Length and Snow Water Equivalent from Radar and Passive Microwave Measurements. Remote Sensing, 2018, 10, 170.	4.0	42
61	The influence of canopy snow parameterizations on snow albedo feedback in boreal forest regions. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9810-9821.	3.3	41
62	Characterizing local scale snow cover using point measurements during the winter season. Atmosphere - Ocean, 2006, 44, 257-269.	1.6	40
63	Testing snow water equivalent retrieval algorithms for passive microwave remote sensing in an alpine watershed of western Canada. Canadian Journal of Remote Sensing, 2010, 36, S74-S86.	2.4	39
64	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.	3.3	39
65	Interpreting observed northern hemisphere snow trends with large ensembles of climate simulations. Climate Dynamics, 2014, 43, 345-359.	3.8	39
66	Identification of systematic bias in the cross-platform (SMMR and SSM/I) EASE-grid brightness temperature time series. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 910-915.	6.3	38
67	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.	6.3	38
68	Landfast ice thickness in the Canadian Arctic Archipelago from observations and models. Cryosphere, 2016, 10, 1463-1475.	3.9	38
69	Quantifying the Uncertainty in Historical and Future Simulations of Northern Hemisphere Spring Snow Cover. Journal of Climate, 2016, 29, 8647-8663.	3.2	38
70	Spatio-temporal influence of tundra snow properties on Ku-band (17.2 GHz) backscatter. Journal of Glaciology, 2015, 61, 267-279.	2.2	37
71	New satellite climate data records indicate strong coupling between recent frozen season changes and snow cover over high northern latitudes. Environmental Research Letters, 2015, 10, 084004.	5.2	37
72	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.	11.0	37

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73	The influence of snow microstructure on dual-frequency radar measurements in a tundra environment. Remote Sensing of Environment, 2018, 215, 242-254.	11.0	37
74	Simulation of Snow Water Equivalent (SWE) Using Thermodynamic Snow Models in QuÃ©bec, Canada. Journal of Hydrometeorology, 2009, 10, 1447-1463.	1.9	36
75	Capturing agricultural soil freeze/thaw state through remote sensing and ground observations: A soil freeze/thaw validation campaign. Remote Sensing of Environment, 2018, 211, 59-70.	11.0	36
76	Sea-Ice Melt-Pond Fraction as Determined from Low Level Aerial Photographs. Arctic and Alpine Research, 1997, 29, 345.	1.3	34
77	Time-series analysis of passive-microwave-derived central North American snow water equivalent imagery. Annals of Glaciology, 2002, 34, 1-7.	1.4	34
78	Sensitivity of AMSR-E Brightness Temperatures to the Seasonal Evolution of Lake Ice Thickness. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 751-755.	3.1	34
79	Triple collocation for binary and categorical variables: Application to validating landscape freeze/thaw retrievals. Remote Sensing of Environment, 2016, 176, 31-42.	11.0	34
80	Integrating in situ and multiscale passive microwave data for estimation of subgrid scale snow water equivalent distribution and variability. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 960-972.	6.3	33
81	Influence of Sensor Overpass Time on Passive Microwave-Derived Snow Cover Parameters. Remote Sensing of Environment, 2000, 71, 297-308.	11.0	32
82	Temporal and spatial variability of North American prairie snow cover (1988-1995) inferred from passive microwave- derived snow water equivalent imagery. Water Resources Research, 2000, 36, 255-266.	4.2	32
83	Snow cover variability across central Canada (1978â€“2002) derived from satellite passive microwave data. Climatic Change, 2007, 82, 113-130.	3.6	32
84	Integrated pan-Arctic melt onset detection from satellite active and passive microwave measurements, 2000-2009. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	31
85	Evaluation of Operation IceBridge quickâ€look snow depth estimates on sea ice. Geophysical Research Letters, 2015, 42, 9302-9310.	4.0	30
86	Forward and Inverse Radar Modeling of Terrestrial Snow Using SnowSAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7122-7132.	6.3	30
87	The Arctic. Bulletin of the American Meteorological Society, 2020, 101, S239-S286.	3.3	29
88	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.	6.3	28
89	Local-scale variability of snow density on Arctic sea ice. Cryosphere, 2020, 14, 4323-4339.	3.9	28
90	Estimating Passive Microwave Brightness Temperature Over Snow-Covered Land in North America Using a Land Surface Model and an Artificial Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 235-248.	6.3	27

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91	Validation of the SMAP freeze/thaw product using categorical triple collocation. Remote Sensing of Environment, 2018, 205, 329-337.	11.0	27
92	Canadian snow and sea ice: assessment of snow, sea ice, and related climate processes in Canada's Earth system model and climate-prediction system. Cryosphere, 2018, 12, 1137-1156.	3.9	27
93	Associations between spatially autocorrelated patterns of SSM/I-derived prairie snow cover and atmospheric circulation. Hydrological Processes, 1998, 12, 2307-2316.	2.6	26
94	Merging Conventional (1915â€“92) and Passive Microwave (1978â€“2002) Estimates of Snow Extent and Water Equivalent over Central North America. Journal of Hydrometeorology, 2004, 5, 850-861.	1.9	26
95	Global Assessment of the SMAP Freeze/Thaw Data Record and Regional Applications for Detecting Spring Onset and Frost Events. Remote Sensing, 2019, 11, 1317.	4.0	26
96	Variability and change in terrestrial snow cover: data acquisition and links to the atmosphere. Progress in Physical Geography, 2000, 24, 469-498.	3.2	24
97	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.	2.8	24
98	Uncertainty in snow mass retrievals from satellite passive microwave data in lake-rich high-latitude environments. Hydrological Processes, 2006, 20, 1019-1022.	2.6	23
99	Effect of snow microstructure variability on Ku-band radar snow water equivalent retrievals. Cryosphere, 2019, 13, 3045-3059.	3.9	23
100	The Arctic. Bulletin of the American Meteorological Society, 2021, 102, S263-S316.	3.3	23
101	Observations of late winter Canadian tundra snow cover properties. Hydrological Processes, 2014, 28, 3962-3977.	2.6	22
102	Recent changes in sea ice area flux through the Beaufort Sea during the summer. Journal of Geophysical Research: Oceans, 2016, 121, 2659-2672.	2.6	22
103	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.	11.0	22
104	Identification of snow cover regimes through spatial and temporal clustering of satellite microwave brightness temperatures. Remote Sensing of Environment, 2010, 114, 199-210.	11.0	21
105	On the simulation of regional scale sublimation over boreal and agricultural landscapes in a climate model. Atmosphere - Ocean, 2006, 44, 289-304.	1.6	20
106	Freeze/Thaw Detection and Validation Using Aquariusâ€™ L-Band Backscattering Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1370-1381.	4.9	20
107	Evaluation of the HUT modified snow emission model over lake ice using airborne passive microwave measurements. Remote Sensing of Environment, 2011, 115, 233-244.	11.0	19
108	SSM/I derived snow water equivalent data: The potential for investigating linkages between snow cover and atmospheric circulation. Atmosphere - Ocean, 1998, 36, 95-117.	1.6	17

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109	Câ€band backscatter from a complexlyâ€layered snow cover on firstâ€year sea ice. Hydrological Processes, 2014, 28, 4614-4625.	2.6	17
110	The Canadian boreal snow water equivalent band. Atmosphere - Ocean, 2006, 44, 305-320.	1.6	16
111	Diagnosing the Impacts of Northern Hemisphere Surface Albedo Biases on Simulated Climate. Journal of Climate, 2019, 32, 1777-1795.	3.2	16
112	L-Band response to freeze/thaw in a boreal forest stand from ground- and tower-based radiometer observations. Remote Sensing of Environment, 2020, 237, 111542.	11.0	16
113	Extreme low sea ice years in the Canadian Arctic Archipelago: 1998 versus 2007. Journal of Geophysical Research, 2010, 115, .	3.3	15
114	Multiyear ice replenishment in the <scp>C</scp>anadian <scp>A</scp>rctic <scp>A</scp>rchipelago: 1997â€“2013. Journal of Geophysical Research: Oceans, 2015, 120, 1623-1637.	2.6	15
115	Evaluation of snow water equivalent datasets over the Saintâ€Maurice river basin region of southern QuÃ©bec. Hydrological Processes, 2018, 32, 2748-2764.	2.6	15
116	Recent extreme light sea ice years in the Canadian Arctic Archipelago: 2011 and 2012 eclipse 1998 and 2007. Cryosphere, 2013, 7, 1753-1768.	3.9	14
117	Evaluation of the Interactive Multisensor Snow and Ice Mapping System (IMS) for monitoring sea ice phenology. Remote Sensing of Environment, 2014, 147, 65-78.	11.0	14
118	Representation of Snow in the Canadian Seasonal to Interannual Prediction System. Part I: Initialization. Journal of Hydrometeorology, 2016, 17, 1467-1488.	1.9	14
119	Spatial Variability of L-Band Brightness Temperature during Freeze/Thaw Events over a Prairie Environment. Remote Sensing, 2017, 9, 894.	4.0	13
120	L-band radiometry freeze/ thaw validation using air temperature and ground measurements. Remote Sensing Letters, 2018, 9, 403-410.	1.4	13
121	Quantifying Snow Mass Mission Concept Trade-Offs Using an Observing System Simulation Experiment. Journal of Hydrometeorology, 2019, 20, 155-173.	1.9	13
122	Exploiting the ANN Potential in Estimating Snow Depth and Snow Water Equivalent From the Airborne SnowSAR Data at X- and Ku-Bands. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	13
123	Benchmarking algorithm changes to the Snow CCI+ snow water equivalent product. Remote Sensing of Environment, 2022, 274, 112988.	11.0	13
124	Winter season variability in North American Prairie SWE distribution and atmospheric circulation. Hydrological Processes, 2000, 14, 3273-3290.	2.6	12
125	Frequency and distribution of winter melt events from passive microwave satellite data in the pan-Arctic, 1988â€“2013. Cryosphere, 2016, 10, 2589-2602.	3.9	12
126	Mackenzie Basin Snow Cover: Variability and Trends from Conventional Data, Satellite Remote Sensing, and Canadian Regional Climate Model Simulations. , 2008, , 213-239.		10

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127	Modeling the Observed Microwave Emission from Shallow Multi-Layer Tundra Snow Using DMRT-ML. Remote Sensing, 2017, 9, 1327.	4.0	10
128	Snow distribution from SSM/I and its relationships to the hydroclimatology of the Mackenzie River Basin, Canada. Advances in Water Resources, 2010, 33, 667-677.	3.8	9
129	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.	1.6	9
130	Canadian In Situ Snow Cover Trends for 1955â€“2017 Including an Assessment of the Impact of Automation. Atmosphere - Ocean, 2021, 59, 77-92.	1.6	9
131	Development of a water clear of sea ice detection algorithm from enhanced SeaWinds/QuikSCAT and AMSR-E measurements. Remote Sensing of Environment, 2010, 114, 2594-2609.	11.0	8
132	Modelling the L-Band Snow-Covered Surface Emission in a Winter Canadian Prairie Environment. Remote Sensing, 2018, 10, 1451.	4.0	8
133	HydroCube Mission concept: P-Band signals of opportunity for remote sensing of snow and root zone soil moisture. , 2017, , .		8
134	Investigating hemispherical trends in snow accumulation using GlobSnow snow water equivalent data. , 2011, , .		7
135	Snowmelt variability in Polar Bear Pass, Nunavut, Canada, from QuikSCAT: 2000â€“2009. Hydrological Processes, 2012, 26, 3477-3488.	2.6	7
136	Brief communication: Improved measurement of ice layer density in seasonal snowpacks. Cryosphere, 2016, 10, 2069-2074.	3.9	7
137	Plot-scale assessment of soil freeze/thaw detection and variability with impedance probes: implications for remote sensing validation networks. Hydrology Research, 2018, 49, 1-16.	2.7	7
138	A Dual-Frequency Ku-Band Radar Mission Concept for Seasonal Snow. , 2019, , .		7
139	Radio-frequency interference mitigating hyperspectral L-band radiometer. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 39-51.	1.6	6
140	Relationship between snow cover and atmospheric circulation, central North America, winter 1988. Annals of Glaciology, 1997, 25, 347-352.	1.4	6
141	Spatialâ€temporal patterns of snow cover in western Canada. Canadian Geographer / Geographie Canadien, 2009, 53, 473-487.	1.5	5
142	Investigating the Influence of Variable Freshwater Ice Types on Passive and Active Microwave Observations. Remote Sensing, 2017, 9, 1242.	4.0	5
143	UAS-based P-band signals of opportunity for remote sensing of snow and root zone soil moisture. , 2018, , .		5
144	Relationship between snow cover and atmospheric circulation, central North America, winter 1988. Annals of Glaciology, 1997, 25, 347-352.	1.4	4

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145	Correction to â€œMultiple-Layer Adaptation of HUT Snow Emission Model: Comparison With Experimental Dataâ€•[Jul 10 2781-2794. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3055-3055.	6.3	4
146	Hemispheric snow water equivalent: The need for a synergistic approach. Eos, 2012, 93, 305-305.	0.1	4
147	Retrieval of snow parameters from L-band observations - application for SMOS and SMAP. , 2016, , .		4
148	Development of the Terrestrial Snow Mass Mission. , 2021, , .		4
149	Application of the Getis statistic to hemispheric and regional scale passive microwave derived snow water equivalent imagery. , 1998, , .		3
150	A Comparison of Finnish SCAmod Snow Maps and MODIS Snow Maps in Boreal Forests in Finland and in Manitoba, Canada. , 2006, , .		3
151	Plot Scale Passive Microwave Measurements and Modeling of Layered Snow Using the Multi-layered HUT Model. Canadian Journal of Remote Sensing, 2015, 41, 219-231.	2.4	3
152	Landscape freeze/thaw standerd and enhanced products from soil moisture active/passive (SMAP) radiometer data. , 2017, , .		3
153	Variability and change in terrestrial snow cover: data acquisition and links to the atmosphere. Progress in Physical Geography, 2000, 24, 469-498.	3.2	3
154	An examination of spatial autocorrelation as a means of monitoring coral reef ecosystems. , 0, , .		2
155	Determination of the dominant spatial modes of terrestrial snow cover over North America using passive microwave derived data. , 0, , .		2
156	SSM/I imagery of sea ice, Q-vectors and synoptic-scale linkages between the atmosphere and cryosphere: eighteen years of variability in the Beaufort Sea-the example of principal component one of sea ice. , 0, , .		2
157	Passive Microwave Brightness Temperature Scaling Over Snow Covered Boreal Forest and Tundra. , 2006, , .		2
158	Comparison of multiple layer snow emission models. , 2010, , .		2
159	Implementing hemispherical snow water equivalent product assimilating weather station observations and spaceborne microwave data. , 2011, , .		2
160	Assessing global satellite-based snow water equivalent datasets in ESA SnowPEx project. , 2016, , .		2
161	Exploring the influence of snow microstructure on dual-frequency radar measurements. , 2017, , .		2
162	Validation of the SMAP freeze/thaw product using categorical triple collocation. , 2017, , .		2

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163	A Ku-Band Airborne InSAR for Snow Characterization at Trail Valley Creek. , 2021, , .		2
164	The influence of sensor overpass time on passive microwave derived snow water equivalent measurements. , 0, , .		1
165	Evaluation of a multi-algorithm approach to passive microwave monitoring of Central North American snow water equivalent. , 0, , .		1
166	Evaluating spaceborne passive microwave snow water equivalent retrievals across the Canadian Northern Boreal - Tundra Ecotone. , 0, , .		1
167	A Comparison of Airborne Passive Microwave Brightness Temperatures and Snowpack Properties across the Boreal Forests of Finland and Western Canada. , 2006, , .		1
168	Assessment of Seasonal snow Cover Mass in Northern Hemisphere During the Satellite-ERA. , 2018, , .		1
169	Estimating Snow Water Equivalent in Northern Regions from Satellite Passive Microwave Data. , 2008, , 195-212.		1
170	Spatial-Temporal Variability of Northern Hemisphere Sea Ice Concentrations and Concurrent Atmospheric Teleconnections. Journal of Environmental Informatics, 2008, 11, 103-122.	6.0	1
171	Synoptic-scale feedbacks between the atmosphere and cryosphere based upon Q-vector diagnostics: a case study of the Beaufort Sea. , 1998, , .		0
172	Assessing the impact of melt and refreeze on SSM/I derived North American Prairie snow water equivalent. , 0, , .		0
173	Development of a cross-platform (SMMR and SSM/I) passive microwave derived snow water equivalent dataset for climatological applications. , 0, , .		0
174	Introduction / Introduction. Canadian Journal of Remote Sensing, 2010, 36, iii-iv.	2.4	0
175	Potential of L-band passive microwave radiometry for snow parameter retrieval. , 2015, , .		0
176	Analysis of L-Band brightness temperatures response to freeze/thaw in two prairie environments from surface-based radiometer measurements. , 2016, , .		0
177	Monitoring boreal and arctic freeze/thaw with the first year of SMAP brightness temperatures. , 2016, , .		0
178	Landscape freeze/thaw products from Soil Moisture Active/Passive (SMAP) radar and radiometer data. , 2016, , .		0
179	Long term changes in Northern hemisphere snow cover from SWE timeseries constrained with SE data. , 2017, , .		0
180	Future mission concepts for measuring snow mass. , 2017, , .		0

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181	Validation of physical model and radar retrieval algorithm of snow water equivalent using SnowSAR data. , 2017, , .		0
182	The Pan-European Yearly Snow Melt-Off Day Derived from Optical and Microwave Radiometer Data. , 2018, , .		0
183	Analysis of Soil Freeze/Thaw Signatures During Slapex F/T Campaign. , 2018, , .		0
184	Use of L-Band Ground-Based Radiometers for Freeze/Thaw Retrieval in A Boreal Forest Site. , 2018, , .		0
185	Global Freeze/Thaw Product from L-Band Radiometer Data. , 2018, , .		0
186	Evaluation of Seasonal Water Budget Components Over the Major Drainage Basins of North America Using an Ensemble-Based Land Surface Model Approach. , 2019, , .		0
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