Benoit Montpetit

List of Publications by Year
in descending order

18	458	759233 12	839539 18
papers	citations	h-index	g-index

19	19	19	520
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Detection of rain-on-snow (ROS) events and ice layer formation using passive microwave radiometry: A context for Peary caribou habitat in the Canadian Arctic. Remote Sensing of Environment, 2017, 189, 84-95.	11.0	49
4	New shortwave infrared albedo measurements for snow specific surface area retrieval. Journal of Glaciology, 2012, 58, 941-952.	2.2	47
5	Assessment of the High Resolution SAR Mode of the RADARSAT Constellation Mission for First Year Ice and Multiyear Ice Characterization. Remote Sensing, 2018, 10, 594.	4.0	36
6	Wetland Classification with Multi-Angle/Temporal SAR Using Random Forests. Remote Sensing, 2019, 11, 670.	4.0	36
7	Comparing L- and C-band synthetic aperture radar estimates of sea ice motion over different ice regimes. Remote Sensing of Environment, 2018, 204, 380-391.	11.0	29
8	Development of a rainâ€onâ€snow detection algorithm using passive microwave radiometry. Hydrological Processes, 2016, 30, 3184-3196.	2.6	27
9	Improving Sea Ice Characterization in Dry Ice Winter Conditions Using Polarimetric Parameters from C- and L-Band SAR Data. Remote Sensing, 2017, 9, 1270.	4.0	25
10	Characterizing marsh wetlands in the Great Lakes Basin with C-band InSAR observations. Remote Sensing of Environment, 2020, 242, 111750.	11.0	20
11	Snow specific surface area simulation using the one-layer snow model in the Canadian LAnd Surface Scheme (CLASS). Cryosphere, 2013, 7, 961-975.	3.9	17
12	In-situ passive microwave emission model parameterization of sub-arctic frozen organic soils. Remote Sensing of Environment, 2018, 205, 112-118.	11.0	12
13	Meteorological inventory of rain-on-snow events in the Canadian Arctic Archipelago and satellite detection assessment using passive microwave data. Physical Geography, 2018, 39, 428-444.	1.4	11
14	Presenting Snow Grain Size and Shape Distributions in Northern Canada Using a New Photographic Device Allowing 2D and 3D Representation of Snow Grains. Frontiers in Earth Science, 2020, 7, .	1.8	8
15	Assessment of the Barren Ground Caribou Dieâ€off During Winter 2015â€“2016 Using Passive Microwave Observations. Geophysical Research Letters, 2018, 45, 4908-4916.	4.0	7
16	Characterizing the Great Lakes Coastal Wetlands with InSAR Observations from X-, C-, and L-Band Sensors. Canadian Journal of Remote Sensing, 2020, 46, 765-783.	2.4	6
17	InSAR Monitoring of Arctic Landfast Sea Ice Deformation Using L-Band ALOS-2, C-Band Radarsat-2 and Sentinel-1. Remote Sensing, 2021, 13, 4570.	4.0	5
18	C- and L-band SAR signatures of Arctic sea ice during freeze-up. Remote Sensing of Environment, 2022, 279, 113129.	11.0	4