

Daniel Fortier

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54
papers

1,342
citations

19
h-index

35
g-index

63
ext. papers

1,694
ext. citations

3.9
avg, IF

4.64
L-index

#	Paper	IF	Citations
54	Cryostratigraphy of late Pleistocene syngenetic permafrost (yedoma) in northern Alaska, Itkillik River exposure. <i>Quaternary Research</i> , 2011 , 75, 584-596	1.9	158
53	Deep Yedoma permafrost: A synthesis of depositional characteristics and carbon vulnerability. <i>Earth-Science Reviews</i> , 2017 , 172, 75-86	10.2	135
52	Observation of rapid drainage system development by thermal erosion of ice wedges on Bylot Island, Canadian Arctic Archipelago. <i>Permafrost and Periglacial Processes</i> , 2007 , 18, 229-243	4.2	126
51	Ground ice in the upper permafrost of the Beaufort Sea coast of Alaska. <i>Cold Regions Science and Technology</i> , 2013 , 85, 56-70	3.8	101
50	Late Holocene syngenetic ice-wedge polygons development, Bylot Island, Canadian Arctic Archipelago. <i>Canadian Journal of Earth Sciences</i> , 2004 , 41, 997-1012	1.5	69
49	Degradation of permafrost beneath a road embankment enhanced by heat advected in groundwater1This article is one of a series of papers published in this CJES Special Issue on the theme of Fundamental and applied research on permafrost in Canada.. <i>Canadian Journal of Earth Sciences</i> , 2012 , 49, 953-962	1.5	58
48	Cryostratigraphy and Permafrost Evolution in the Lacustrine Lowlands of West-Central Alaska. <i>Permafrost and Periglacial Processes</i> , 2014 , 25, 14-34	4.2	53
47	Frost-cracking conditions, Bylot Island, eastern Canadian Arctic archipelago. <i>Permafrost and Periglacial Processes</i> , 2005 , 16, 145-161	4.2	50
46	PeRL: a 'circum-Arctic Permafrost Region Pond and 'Lake'database. <i>Earth System Science Data</i> , 2017 , 9, 317-348	10.5	46
45	Modern to millennium-old greenhouse gases emitted from ponds and lakes of the Eastern Canadian Arctic (Bylot Island, Nunavut). <i>Biogeosciences</i> , 2015 , 12, 7279-7298	4.6	43
44	Effects of thermo-erosion gulying on hydrologic flow networks, discharge and soil loss. <i>Environmental Research Letters</i> , 2014 , 9, 105010	6.2	41
43	Patterns and rates of riverbank erosion involving ice-rich permafrost (yedoma) in northern Alaska. <i>Geomorphology</i> , 2016 , 253, 370-384	4.3	37
42	Geomorphology of a thermo-erosion gully, Bylot Island, Nunavut, Canada1This article is one of a series of papers published in this CJES Special Issue on the theme of Fundamental and applied research on permafrost in Canada.2Polar Continental Shelf Project Contribution 043-11.. <i>Canadian Journal of Earth Sciences</i> , 2012 , 49, 979-986	1.5	37
41	Biogeochemical and geocryological characteristics of wedge and thermokarst-cave ice in the CRREL permafrost tunnel, Alaska. <i>Permafrost and Periglacial Processes</i> , 2011 , 22, 120-128	4.2	34
40	Extreme ecosystems and geosystems in the Canadian High Arctic: Ward Hunt Island and vicinity. <i>Ecoscience</i> , 2011 , 18, 236-261	1.1	28
39	A geosystems approach to permafrost investigations for engineering applications, an example from a road stabilization experiment, Beaver Creek, Yukon, Canada. <i>Cold Regions Science and Technology</i> , 2014 , 100, 20-35	3.8	27
38	Rapid disappearance of perennial ice on Canada's most northern lake. <i>Geophysical Research Letters</i> , 2015 , 42, 1433-1440	4.9	27

37	Water tracks in the High Arctic: a hydrological network dominated by rapid subsurface flow through patterned ground. <i>Arctic Science</i> , 2017 , 3, 334-353	2.2	20
36	A late-Holocene record of loess deposition in ice-wedge polygons reflecting wind activity and ground moisture conditions, Bylot Island, eastern Canadian Arctic. <i>Holocene</i> , 2006 , 16, 635-646	2.6	19
35	Impact of heat advection on the thermal regime of roads built on permafrost. <i>Hydrological Processes</i> , 2020 , 34, 1647-1664	3.3	19
34	PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. <i>Paleoceanography and Paleoclimatology</i> , 2019 , 34, 1570-1596	3.3	15
33	Annually resolved temperature reconstructions from a late Pliocene–Early Pleistocene polar forest on Bylot Island, Canada. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013 , 369, 313-322	2.9	15
32	Hillslope water tracks in the High Arctic: Seasonal flow dynamics with changing water sources in preferential flow paths. <i>Hydrological Processes</i> , 2018 , 32, 1077-1089	3.3	12
31	Remote sensing evaluation of High Arctic wetland depletion following permafrost disturbance by thermo-erosion gully processes. <i>Arctic Science</i> , 2017 , 3, 237-253	2.2	11
30	Linking Cree hunters' and scientific observations of changing inland ice and meteorological conditions in the subarctic eastern James Bay region, Canada. <i>Climatic Change</i> , 2013 , 119, 719-732	4.5	11
29	Thermo-erosion gullies boost the transition from wet to mesic tundra vegetation. <i>Biogeosciences</i> , 2016 , 13, 1237-1253	4.6	11
28	Nonlinear thermal and moisture response of ice-wedge polygons to permafrost disturbance increases heterogeneity of high Arctic wetland. <i>Biogeosciences</i> , 2016 , 13, 1439-1452	4.6	11
27	Origin, burial and preservation of late Pleistocene-age glacier ice in Arctic permafrost (Bylot Island, NU, Canada). <i>Cryosphere</i> , 2019 , 13, 97-111	5.5	10
26	Syngenetic dynamic of permafrost of a polar desert solifluction lobe, Ward Hunt Island, Nunavut. <i>Arctic Science</i> , 2017 , 3, 301-319	2.2	9
25	Surface energy balance of sub-Arctic roads with varying snow regimes and properties in permafrost regions. <i>Permafrost and Periglacial Processes</i> , 2021 , 32, 681	4.2	9
24	Thermokarst lake inception and development in syngenetic ice-wedge polygon terrain during a cooling climatic trend, Bylot Island (Nunavut), eastern Canadian Arctic. <i>Cryosphere</i> , 2020 , 14, 2607-2627	5.5	8
23	Middle to late Wisconsinan climate and ecological changes in northern Alaska: Evidences from the Itkillik River Yedoma. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017 , 485, 906-916	2.9	7
22	Wind-driven snow conditions control the occurrence of contemporary marginal mountain permafrost in the Chic-Choc Mountains, south-eastern Canada: a case study from Mont Jacques-Cartier. <i>Cryosphere</i> , 2017 , 11, 1351-1370	5.5	7
21	Seasonal evolution of active layer thaw depth and hillslope-stream connectivity in a permafrost watershed. <i>Water Resources Research</i> , 2020 , 56, e2019WR025828	5.4	7
20	Cryostratigraphy and the sublimation unconformity in permafrost from an ultraxerous environment, University Valley, McMurdo Dry Valleys of Antarctica. <i>Permafrost and Periglacial Processes</i> , 2017 , 28, 649-662	4.2	6

19	Thermo-erosion gullies boost the transition from wet to mesic vegetation		6
18	Fluvio-thermal erosion and thermal denudation in the yedoma region of northern Alaska: Revisiting the Itkillik River exposure. <i>Permafrost and Periglacial Processes</i> , 2021 , 32, 277-298	4.2	6
17	Seasonal patterns in greenhouse gas emissions from lakes and ponds in a High Arctic polygonal landscape. <i>Limnology and Oceanography</i> , 2021 , 66, S117	4.8	6
16	Periglacial slopewash dominated by solute transfers and subsurface erosion on a High Arctic slope. <i>Permafrost and Periglacial Processes</i> , 2020 , 31, 472-486	4.2	5
15	Nonlinear thermal and moisture dynamics of high Arctic wetland polygons following permafrost disturbance		5
14	Buried remnants of the Laurentide Ice Sheet and connections to its surface elevation. <i>Scientific Reports</i> , 2018 , 8, 13286	4.9	5
13	Distribution of carbon and nitrogen along hillslopes in three valleys on Herschel Island, Yukon Territory, Canada. <i>Catena</i> , 2019 , 178, 132-140	5.8	4
12	ASSESSING LAND SUITABILITY FOR RESIDENTIAL DEVELOPMENT IN PERMAFROST REGIONS: A MULTI-CRITERIA APPROACH TO LAND-USE PLANNING IN NORTHERN QUEBEC, CANADA. <i>Journal of Environmental Assessment Policy and Management</i> , 2012 , 14, 1250003	1.3	4
11	Modern to millennium-old greenhouse gases emitted from freshwater ecosystems of the eastern Canadian Arctic		4
10	Multi-scale site evaluation of a relict active layer detachment in a High Arctic landscape. <i>Geomorphology</i> , 2020 , 359, 107159	4.3	3
9	Investigating the Effects of Groundwater Flow on the Thermal Stability of Embankments over Permafrost 2012 ,		3
8	Circum-Arctic Map of the Yedoma Permafrost Domain. <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	3
7	The Thermal Regime of Mountain Permafrost at the Summit of Mont Jacques-Cartier in the Gaspé Peninsula, Québec, Canada: A 37 Year Record of Fluctuations showing an Overall Warming Trend. <i>Permafrost and Periglacial Processes</i> , 2017 , 28, 266-274	4.2	2
6	PeRL: A Circum-Arctic Permafrost Region Pond and Lake Database		2
5	Effects of meteorology and soil moisture on the spatio-temporal evolution of the depth hoar layer in the polar desert snowpack. <i>Journal of Glaciology</i> , 1-16	3.4	2
4	Cryostratigraphical studies of ground ice formation and distribution in a High Arctic polar desert landscape, Resolute Bay, Nunavut. <i>Canadian Journal of Earth Sciences</i> ,	1.5	1
3	Low vulnerability of Arctic fox dens to climate change-related geohazards on Bylot Island, Nunavut, Canada. <i>Arctic Science</i> , 1-16	2.2	1
2	Air-convection-reflective sheds: A mitigation technique that stopped degradation and promoted permafrost recovery under the Alaska Highway, south-western Yukon, Canada. <i>Cold Regions Science and Technology</i> , 2022 , 197, 103524	3.8	0

- 1 Properties and stratigraphy of polar ice patches in the Canadian High Arctic reveal their current resilience to warm summers. *Arctic Science*,1-36 2.2