

Daniel Fortier

List of Publications by Year in descending order

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54
papers

1,973
citations

304701

22
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254170

43
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63
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docs citations

63
times ranked

1912
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Yedoma permafrost: A synthesis of depositional characteristics and carbon vulnerability. <i>Earth-Science Reviews</i> , 2017, 172, 75-86.	9.1	236
2	Cryostratigraphy of late Pleistocene syngenetic permafrost (yedoma) in northern Alaska, Itkillik River exposure. <i>Quaternary Research</i> , 2011, 75, 584-596.	1.7	189
3	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.	3.4	157
4	Ground ice in the upper permafrost of the Beaufort Sea coast of Alaska. <i>Cold Regions Science and Technology</i> , 2013, 85, 56-70.	3.5	130
5	Degradation of permafrost beneath a road embankment enhanced by heat advected in groundwater ¹ This article is one of a series of papers published in this CJES Special Issue on the theme of <i>Fundamental and applied research on permafrost in Canada</i> .. <i>Canadian Journal of Earth Sciences</i> . 2012, 49, 953-962.	1.3	98
6	Late Holocene syngenetic ice-wedge polygons development, Bylot Island, Canadian Arctic Archipelago. <i>Canadian Journal of Earth Sciences</i> , 2004, 41, 997-1012.	1.3	84
7	Cryostratigraphy and Permafrost Evolution in the Lacustrine Lowlands of West-Central Alaska. <i>Permafrost and Periglacial Processes</i> , 2014, 25, 14-34.	3.4	72
8	PeRL: a Circum-Arctic Permafrost Region Pond and Lake database. <i>Earth System Science Data</i> , 2017, 9, 317-348.	9.9	62
9	Patterns and rates of riverbank erosion involving ice-rich permafrost (yedoma) in northern Alaska. <i>Geomorphology</i> , 2016, 253, 370-384.	2.6	60
10	Frost-cracking conditions, Bylot Island, eastern Canadian Arctic archipelago. <i>Permafrost and Periglacial Processes</i> , 2005, 16, 145-161.	3.4	59
11	Effects of thermo-erosion gullying on hydrologic flow networks, discharge and soil loss. <i>Environmental Research Letters</i> , 2014, 9, 105010.	5.2	54
12	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.	3.3	53
13	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.	3.4	49
14	Circum-Arctic Map of the Yedoma Permafrost Domain. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	49
15	Geomorphology of a thermo-erosion gully, Bylot Island, Nunavut, Canada ¹ This article is one of a series of papers published in this CJES Special Issue on the theme of <i>Fundamental and applied research on permafrost in Canada</i> . ² Polar Continental Shelf Project Contribution 043-11. <i>Canadian Journal of Earth Sciences</i> . 2012, 49, 979-986.	1.3	47
16	Surface energy balance of sub-Arctic roads with varying snow regimes and properties in permafrost regions. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 681-701.	3.4	40
17	Extreme ecosystems and geosystems in the Canadian High Arctic: Ward Hunt Island and vicinity. <i>Ecoscience</i> , 2011, 18, 236-261.	1.4	37
18	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.	3.5	36

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19	Impact of heat advection on the thermal regime of roads built on permafrost. <i>Hydrological Processes</i> , 2020, 34, 1647-1664.	2.6	34
20	Rapid disappearance of perennial ice on Canada's most northern lake. <i>Geophysical Research Letters</i> , 2015, 42, 1433-1440.	4.0	33
21	PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1570-1596.	2.9	30
22	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.	1.7	27
23	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.	2.3	26
24	Seasonal patterns in greenhouse gas emissions from lakes and ponds in a High Arctic polygonal landscape. <i>Limnology and Oceanography</i> , 2021, 66, S117.	3.1	24
25	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.	2.3	18
26	Remote sensing evaluation of High Arctic wetland depletion following permafrost disturbance by thermo-erosion gully processes. <i>Arctic Science</i> , 2017, 3, 237-253.	2.3	18
27	Thermo-erosion gullies boost the transition from wet to mesic tundra vegetation. <i>Biogeosciences</i> , 2016, 13, 1237-1253.	3.3	16
28	Seasonal evolution of active layer thaw depth and hillslope–stream connectivity in a permafrost watershed. <i>Water Resources Research</i> , 2020, 56, e2019WR025828.	4.2	16
29	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.	2.6	15
30	Origin, burial and preservation of late Pleistocene-age glacier ice in Arctic permafrost (Bylot Island, Nunavut). <i>Journal of Glaciology</i> , 2019, 55, 107-115.	3.9	15
31	Linking Cree hunters' oral traditions 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.	3.6	14
32	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.	3.3	14
33	Fluvio-thermal erosion and thermal denudation in the yedoma region of northern Alaska: Revisiting the Ikillik River exposure. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 277-298.	3.4	14
34	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.	3.9	13
35	Syngenetic dynamic of permafrost of a polar desert solifluction lobe, Ward Hunt Island, Nunavut. <i>Arctic Science</i> , 2017, 3, 301-319.	2.3	11
36	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.	3.4	10

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37	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.	2.3	10
38	Buried remnants of the Laurentide Ice Sheet and connections to its surface elevation. <i>Scientific Reports</i> , 2018, 8, 13286.	3.3	10
39	Wind-driven snow conditions control the occurrence of contemporary marginal mountain permafrost in the Chic-Choc Mountains, south-eastern Canada: a case study from MontÂJacques-Cartier. <i>Cryosphere</i> , 2017, 11, 1351-1370.	3.9	8
40	Distribution of carbon and nitrogen along hillslopes in three valleys on Herschel Island, Yukon Territory, Canada. <i>Catena</i> , 2019, 178, 132-140.	5.0	7
41	Periglacial slopewash dominated by solute transfers and subsurface erosion on a High Arctic slope. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 472-486.	3.4	7
42	Yedoma Cryostratigraphy of Recently Excavated Sections of the CRREL Permafrost Tunnel Near Fairbanks, Alaska. <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	7
43	Contrasted geomorphological and limnological properties of thermokarst lakes formed in buried glacier ice and ice-wedge polygon terrain. <i>Cryosphere</i> , 2022, 16, 2837-2857.	3.9	7
44	Multi-scale site evaluation of a relict active layer detachment in a High Arctic landscape. <i>Geomorphology</i> , 2020, 359, 107159.	2.6	6
45	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.	3.5	6
46	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.	7.9	5
47	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> , 2022, 68, 457-472.	2.2	5
48	Investigating the Effects of Groundwater Flow on the Thermal Stability of Embankments over Permafrost. , 2012, , .		4
49	Cryostratigraphical studies of ground ice formation and distribution in a High Arctic polar desert landscape, Resolute Bay, Nunavut¹. <i>Canadian Journal of Earth Sciences</i> , 2022, 59, 759-771.	1.3	4
50	Properties and stratigraphy of polar ice patches in the Canadian High Arctic reveal their current resilience to warm summers. <i>Arctic Science</i> , 2022, 8, 414-449.	2.3	4
51	The Thermal Regime of Mountain Permafrost at the Summit of Mont Jacques-Cartier in the GaspÃ© Peninsula, QuÃ©bec, Canada: A 37 Year Record of Fluctuations showing an Overall Warming Trend. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 266-274.	3.4	2
52	The Distribution of Soil Carbon and Nitrogen Stocks Among Dominant Geomorphological Terrain Units in Qarlikturvik Valley, Bylot Island, Arctic Canada. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	2
53	Massive Ice and Ice-Rich Soil Detection by Gravimetric Surveying at Dry Creek, Southwestern Yukon Territory, Canada. , 2015, , .		1
54	Low vulnerability of Arctic fox dens to climate change-related geohazards on Bylot Island, Nunavut, Canada. <i>Arctic Science</i> , 0, , 1-16.	2.3	1