

Denis Lacelle

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,624
citations

185998

28
h-index

205818

48
g-index

79
all docs

79
docs citations

79
times ranked

2594
citing authors

#	ARTICLE	IF	CITATIONS
1	High Arctic Holocene temperature record from the Agassiz ice cap and Greenland ice sheet evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5952-5957.	3.3	163
2	Increased precipitation drives mega slump development and destabilization of ice-rich permafrost terrain, northwestern Canada. <i>Global and Planetary Change</i> , 2015, 129, 56-68.	1.6	161
3	Nearing the cold-arid limits of microbial life in permafrost of an upper dry valley, Antarctica. <i>ISME Journal</i> , 2016, 10, 1613-1624.	4.4	144
4	Climate-driven thaw of permafrost preserved glacial landscapes, northwestern Canada. <i>Geology</i> , 2017, 45, 371-374.	2.0	141
5	The Icebreaker Life Mission to Mars: A Search for Biomolecular Evidence for Life. <i>Astrobiology</i> , 2013, 13, 334-353.	1.5	104
6	Climatic and geomorphic factors affecting contemporary (1950-2004) activity of retrogressive thaw slumps on the Aklavik Plateau, Richardson Mountains, NWT, Canada. <i>Permafrost and Periglacial Processes</i> , 2010, 21, 1-15.	1.5	100
7	Distribution and growth of thaw slumps in the Richardson Mountains-Peel Plateau region, northwestern Canada. <i>Geomorphology</i> , 2015, 235, 40-51.	1.1	94
8	Contemporary (1951-2001) Evolution of Lakes in the Old Crow Basin, Northern Yukon, Canada: Remote Sensing, Numerical Modeling, and Stable Isotope Analysis. <i>Arctic</i> , 2009, 62, .	0.2	87
9	Impacts of hillslope thaw slumps on the geochemistry of permafrost catchments (Stony Creek) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.4	83
10	Permafrost Terrain Dynamics and Infrastructure Impacts Revealed by UAV Photogrammetry and Thermal Imaging. <i>Remote Sensing</i> , 2018, 10, 1734.	1.8	77
11	On the $\delta^{18}O$, δ^2H and $\delta^{13}C$ excess relations in meteoric precipitation and during equilibrium freezing: theoretical approach and field examples. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 13-25.	1.5	75
12	Climate Sensitivity of High Arctic Permafrost Terrain Demonstrated by Widespread Ice-Wedge Thermokarst on Banks Island. <i>Remote Sensing</i> , 2018, 10, 954.	1.8	66
13	Permafrost thaw and intense thermokarst activity decreases abundance of stream benthic macroinvertebrates. <i>Global Change Biology</i> , 2016, 22, 2715-2728.	4.2	62
14	Evidence for Hesperian glaciation along the Martian dichotomy boundary. <i>Geology</i> , 2013, 41, 755-758.	2.0	59
15	Segregated-intrusive ice of subglacial meltwater origin in retrogressive thaw flow headwalls, Richardson Mountains, NWT, Canada. <i>Quaternary Science Reviews</i> , 2004, 23, 681-696.	1.4	55
16	Detecting Landscape Changes in High Latitude Environments Using Landsat Trend Analysis: 1. Visualization. <i>Remote Sensing</i> , 2014, 6, 11533-11557.	1.8	46
17	Mapping the Activity and Evolution of Retrogressive Thaw Slumps by Tasseled Cap Trend Analysis of a Landsat Satellite Image Stack. <i>Permafrost and Periglacial Processes</i> , 2014, 25, 243-256.	1.5	46
18	Environmental setting, (micro)morphologies and stable ^{13}C isotope composition of cold climate carbonate precipitates—a review and evaluation of their potential as paleoclimatic proxies. <i>Quaternary Science Reviews</i> , 2007, 26, 1670-1689.	1.4	45

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19	Excess ground ice of condensationâ€‘diffusion origin in University Valley, Dry Valleys of Antarctica: Evidence from isotope geochemistry and numerical modeling. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 120, 280-297.	1.6	45
20	The high elevation Dry Valleys in Antarctica as analog sites for subsurface ice on Mars. <i>Planetary and Space Science</i> , 2013, 85, 53-58.	0.9	44
21	Deposition, accumulation, and alteration of Clâˆ‘, NO ₃ âˆ‘, ClO ₄ âˆ‘ and ClO ₃ âˆ‘ salts in a hyper-arid polar environment: Mass balance and isotopic constraints. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 182, 197-215.	1.6	42
22	Weathering regime and geochemical conditions in a polar desert environment, Houghton impact structure region, Devon Island, Canada. <i>Canadian Journal of Earth Sciences</i> , 2008, 45, 1139-1157.	0.6	40
23	Timing of advance and basal condition of the Laurentide Ice Sheet during the last glacial maximum in the Richardson Mountains, NWT. <i>Quaternary Research</i> , 2013, 80, 274-283.	1.0	37
24	Nature and origin of a Pleistocene-age massive ground-ice body exposed in the Chapman Lake moraine Complex, central Yukon Territory, Canada. <i>Quaternary Research</i> , 2007, 68, 249-260.	1.0	36
25	Investigation of iceâ€‘wedge infilling processes using stable oxygen and hydrogen isotopes, crystallography and occluded gases (O ₂ , N ₂ , Ar). <i>Permafrost and Periglacial Processes</i> , 2011, 22, 49-64.	1.5	34
26	Solar Radiation and Air and Ground Temperature Relations in the Cold and Hyperâ€‘Arid Quartermain Mountains, McMurdo Dry Valleys of Antarctica. <i>Permafrost and Periglacial Processes</i> , 2016, 27, 163-176.	1.5	32
27	Effect of chemical composition of water on the oxygen-18 and carbon-13 signature preserved in cryogenic carbonates, Arctic Canada: Implications in paleoclimatic studies. <i>Chemical Geology</i> , 2006, 234, 1-16.	1.4	31
28	Seasonal isotopic imprint in moonmilk from Caverne de l'Ours (Quebec, Canada): implications for climatic reconstruction. <i>Canadian Journal of Earth Sciences</i> , 2004, 41, 1411-1423.	0.6	30
29	Distribution of depth to ice-cemented soils in the high-elevation Quartermain Mountains, McMurdo Dry Valleys, Antarctica. <i>Antarctic Science</i> , 2013, 25, 575-582.	0.5	30
30	High-resolution stable water isotopes as tracers of thaw unconformities in permafrost: A case study from western Arctic Canada. <i>Chemical Geology</i> , 2014, 368, 85-96.	1.4	29
31	Molar gas ratios of air entrapped in ice: A new tool to determine the origin of relict massive ground ice bodies in permafrost. <i>Quaternary Research</i> , 2007, 68, 239-248.	1.0	27
32	Geomicrobiology and occluded O ₂ â€‘CO ₂ â€‘Ar gas analyses provide evidence of microbial respiration in ancient terrestrial ground ice. <i>Earth and Planetary Science Letters</i> , 2011, 306, 46-54.	1.8	27
33	Late Pleistocene and Holocene ice-wedge activity on the Blackstone Plateau, central Yukon, Canada. <i>Quaternary Research</i> , 2019, 91, 179-193.	1.0	26
34	Acid drainage generation and seasonal recycling in disturbed permafrost near Eagle Plains, northern Yukon Territory, Canada. <i>Chemical Geology</i> , 2007, 243, 157-177.	1.4	25
35	Stability of massive ground ice bodies in University Valley, McMurdo Dry Valleys of Antarctica: Using stable Oâ€‘H isotope as tracers of sublimation in hyper-arid regions. <i>Earth and Planetary Science Letters</i> , 2011, 301, 403-411.	1.8	24
36	An ice-marginal ¹⁸ O record from Barnes Ice Cap, Baffin Island, Canada. <i>Annals of Glaciology</i> , 2002, 35, 145-149.	2.8	23

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37	Holocene Evolution of Lakes in the Bluefish Basin, Northern Yukon, Canada. <i>Arctic</i> , 2009, 62, .	0.2	23
38	Burial and preservation of a 30,000 year old perennial snowbank in Red Creek valley, Ogilvie Mountains, central Yukon, Canada. <i>Quaternary Science Reviews</i> , 2009, 28, 3401-3413.	1.4	22
39	Legacy of Holocene Landscape Changes on Soil Biogeochemistry: A Perspective From Paleo-Active Layers in Northwestern Canada. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2662-2679.	1.3	22
40	Recent Progress (2007-2012) in Permafrost Isotope Geochemistry. <i>Permafrost and Periglacial Processes</i> , 2013, 24, 138-145.	1.5	21
41	Acid drainage generation and associated Ca-Fe-SO ₄ minerals in a periglacial environment, Eagle Plains, Northern Yukon, Canada: A potential analogue for low-temperature sulfate formation on Mars. <i>Planetary and Space Science</i> , 2010, 58, 509-521.	0.9	20
42	Icings and groundwater conditions in permafrost catchments of northwestern Canada. <i>Scientific Reports</i> , 2020, 10, 3283.	1.6	20
43	Microbial Diversity in Endostromatolites (<i>cf.</i> Fissure Calcretes) and in the Surrounding Permafrost Landscape, Houghton Impact Structure Region, Devon Island, Canada. <i>Astrobiology</i> , 2009, 9, 807-822.	1.5	17
44	Ground surface temperature and humidity, ground temperature cycles and the ice table depths in University Valley, McMurdo Dry Valleys of Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 2069-2084.	1.0	17
45	Thaw slump activity measured using stationary cameras in time-lapse and Structure-from-Motion photogrammetry. <i>Arctic Science</i> , 2018, 4, 827-845.	0.9	16
46	Energy and water mass balance of Lake Untersee and its perennial ice cover, East Antarctica. <i>Antarctic Science</i> , 2019, 31, 271-285.	0.5	16
47	Formation and evolution of buried snowpack deposits in Pearse Valley, Antarctica, and implications for Mars. <i>Antarctic Science</i> , 2012, 24, 299-316.	0.5	15
48	Origin, burial and preservation of late Pleistocene-age glacier ice in Arctic permafrost (Bylot Island,) <i>Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50</i>	1.5	15
49	The Peel Plateau of Northwestern Canada: An Ice-Rich Hummocky Moraine Landscape in Transition. <i>World Geomorphological Landscapes</i> , 2017, , 109-122.	0.1	15
50	A model of unfrozen water content and its transport in icy permafrost soils: Effects on ground ice content and permafrost stability. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 184-199.	1.5	14
51	Origin, age, and paleoenvironmental significance of carbonate precipitates from a granitic environment, Akshayuk Pass, southern Baffin Island, Canada. <i>Canadian Journal of Earth Sciences</i> , 2007, 44, 61-79.	0.6	13
52	Distribution and origin of ground ice in University Valley, McMurdo Dry Valleys, Antarctica. <i>Antarctic Science</i> , 2017, 29, 183-198.	0.5	12
53	Sources of solutes and carbon cycling in perennially ice-covered Lake Untersee, Antarctica. <i>Scientific Reports</i> , 2020, 10, 12290.	1.6	12
54	A model for co-isotopic signatures of evolving ground ice in the cold dry environments of Earth and Mars. <i>Icarus</i> , 2014, 243, 454-470.	1.1	10

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55	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.	1.5	10
56	Buried remnants of the Laurentide Ice Sheet and connections to its surface elevation. <i>Scientific Reports</i> , 2018, 8, 13286.	1.6	10
57	Modeling $\delta^{18}O$ Steady-State of Well-Sealed Perennially Ice-Covered Lakes and Their Recharge Source: Examples From Lake Untersee and Lake Vostok, Antarctica. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	10
58	(Micro)morphological, inorganic-organic isotope geochemistry and microbial populations in endostromatolites (cf. fissure calcretes), Houghton impact structure, Devon Island, Canada: The influence of geochemical pathways on the preservation of isotope biomarkers. <i>Earth and Planetary Science Letters</i> , 2009, 281, 202-214.	1.8	9
59	Late Quaternary paleoenvironments and growth of intrusive ice in eastern Beringia (Eagle River) <i>Tj ETQq1 1 0.784314 rgBT /Qverlock 10</i>	0.6	9
60	Using noble gas ratios to determine the origin of ground ice. <i>Quaternary Research</i> , 2016, 85, 177-184.	1.0	8
61	Physicochemical and Biological Controls on Carbon and Nitrogen in Permafrost from an Ultraxerous Environment, McMurdo Dry Valleys of Antarctica. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2593-2604.	1.3	8
62	Distribution, morphometry, and ice content of ice-wedge polygons in Tombstone Territorial Park, central Yukon, Canada. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 587-600.	1.5	8
63	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.	1.5	7
64	Holocene ice wedge formation in the Eureka Sound Lowlands, high Arctic Canada. <i>Quaternary Research</i> , 2021, 102, 175-187.	1.0	6
65	Ice wedges as winter temperature proxy: Principles, limitations and noise in the $\delta^{18}O$ records (an) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 1,4</i>	1.4	6
66	Improved prediction of the vertical distribution of ground ice in Arctic-Antarctic permafrost sediments. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	6
67	Distinguishing between vapor- and liquid-formed ground ice in the northern martian regolith and potential for biosignatures preserved in ice bodies. <i>Icarus</i> , 2008, 197, 458-469.	1.1	5
68	A model for stable isotopes of residual liquid water and ground ice in permafrost soils using arbitrary water chemistries and soil-specific empirical residual water functions. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 248-260.	1.5	5
69	Cryostratigraphy of mid-Miocene permafrost at Friis Hills, McMurdo Dry Valleys of Antarctica. <i>Antarctic Science</i> , 2021, 33, 174-188.	0.5	5
70	Geomorphic Controls on Landslide Activity in Champlain Sea Clays along Green's Creek, Eastern Ontario, Canada. <i>Géographie Physique Et Quaternaire</i> , 0, 58, 9-23.	0.2	5
71	Glacial lake outburst floods enhance benthic microbial productivity in perennially ice-covered Lake Untersee (East Antarctica). <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	4
72	Climate and energy balance of the ground in University Valley, Antarctica. <i>Antarctic Science</i> , 2022, 34, 144-171.	0.5	4

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73	Warmer and wetter climate drives shift in $\delta^{18}O$ composition of precipitation across the Queen Elizabeth Islands, Arctic Canada. <i>Arctic Science</i> , 2021, 7, 136-157.	0.9	3
74	Discussion: "The biogenic origin of needle fibre calcite" by G. Cailleau et al. (2009), <i>Sedimentology</i> , 56, 1858-1875. <i>Sedimentology</i> , 2010, 57, 1147-1149.	1.6	2
75	Hummocks in alpine tundra, northern British Columbia, Canada: distribution, morphology and organic carbon composition. <i>Arctic Science</i> , 2019, 5, 127-147.	0.9	2
76	Ice-covered ponds in the Untersee Oasis (East Antarctica): Distribution, chemical composition, and trajectory under a warming climate. <i>Arctic, Antarctic, and Alpine Research</i> , 2021, 53, 324-339.	0.4	1
77	Abrupt mortality of marine invertebrates at the Younger Dryas-Holocene transition in a shallow inlet of the Goldthwait Sea. <i>Holocene</i> , 2018, 28, 1894-1908.	0.9	0
78	Cryostratigraphy of mid-Miocene permafrost at Friis Hills, McMurdo Dry Valleys of Antarctica " ERRATUM. <i>Antarctic Science</i> , 2021, 33, 189-191.	0.5	0