

Hugues Lantuit

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

4,448
citations

117453

34
h-index

106150

65
g-index

101
all docs

101
docs citations

101
times ranked

4470
citing authors

#	ARTICLE	IF	CITATIONS
1	Drivers, dynamics and impacts of changing Arctic coasts. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 39-54.	12.2	74
2	Drivers of Turbidity and Its Seasonal Variability at Herschel Island Qikiqtaruk (Western Canadian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	1.2	0
3	Potential of X-band polarimetric synthetic aperture radar co-polar phase difference for arctic snow depth estimation. <i>Cryosphere</i> , 2022, 16, 2163-2181.	1.5	2
4	Spatio-Temporal Variability of Suspended Particulate Matter in a High-Arctic Estuary (Adventfjorden,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.8	9
5	Dissolved organic matter characterization in soils and streams in a small coastal low-Arctic catchment. <i>Biogeosciences</i> , 2022, 19, 3073-3097.	1.3	9
6	Population living on permafrost in the Arctic. <i>Population and Environment</i> , 2021, 43, 22-38.	1.3	40
7	Permafrost Causes Unique Fine-scale Spatial Variability Across Tundra Soils. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006659.	1.9	16
8	Permafrost Carbon and CO ₂ Pathways Differ at Contrasting Coastal Erosion Sites in the Canadian Arctic. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	21
9	The Arctic Nearshore Turbidity Algorithm (ANTA) - A multi sensor turbidity algorithm for Arctic nearshore environments. <i>Science of Remote Sensing</i> , 2021, 4, 100036.	2.2	6
10	Burial and Origin of Permafrost-derived Carbon in the Nearshore Zone of the Southern Canadian Beaufort Sea. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085897.	1.5	28
11	Nearshore Zone Dynamics Determine Pathway of Organic Carbon From Eroding Permafrost Coasts. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088561.	1.5	18
12	Spatial Variability of Dissolved Organic Carbon, Solutes, and Suspended Sediment in Disturbed Low Arctic Coastal Watersheds. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005505.	1.3	10
13	Rapid CO ₂ Release From Eroding Permafrost in Seawater. <i>Geophysical Research Letters</i> , 2019, 46, 11244-11252.	1.5	54
14	Rapid retreat of permafrost coastline observed with aerial drone photogrammetry. <i>Cryosphere</i> , 2019, 13, 1513-1528.	1.5	51
15	Submarine Permafrost Map in the Arctic Modeled Using 1-Transient Heat Flux (SuPerMAP). <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3490-3507.	1.0	55
16	Distribution of carbon and nitrogen along hillslopes in three valleys on Herschel Island, Yukon Territory, Canada. <i>Catena</i> , 2019, 178, 132-140.	2.2	7
17	Impacts of past and future coastal changes on the Yukon coast - threats for cultural sites, infrastructure, and travel routes. <i>Arctic Science</i> , 2019, 5, 107-126.	0.9	40
18	The Permafrost Young Researchers Network (PYRN) is getting older: The past, present, and future of our evolving community. <i>Polar Record</i> , 2019, 55, 216-219.	0.4	1

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19	Comparisons of dissolved organic matter and its optical characteristics in small low and high Arctic catchments. <i>Biogeosciences</i> , 2019, 16, 4535-4553.	1.3	20
20	Long-Term High-Resolution Sediment and Sea Surface Temperature Spatial Patterns in Arctic Nearshore Waters Retrieved Using 30-Year Landsat Archive Imagery. <i>Remote Sensing</i> , 2019, 11, 2791.	1.8	21
21	Permafrost is warming at a global scale. <i>Nature Communications</i> , 2019, 10, 264.	5.8	1,039
22	Variability in Rates of Coastal Change Along the Yukon Coast, 1951 to 2015. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 779-800.	1.0	50
23	Coastal Erosion of Permafrost Soils Along the Yukon Coastal Plain and Fluxes of Organic Carbon to the Canadian Beaufort Sea. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 406-422.	1.3	52
24	Summer rainfall dissolved organic carbon, solute, and sediment fluxes in a small Arctic coastal catchment on Herschel Island (Yukon Territory, Canada). <i>Arctic Science</i> , 2018, 4, 750-780.	0.9	20
25	TerraSAR-X Time Series Fill a Gap in Spaceborne Snowmelt Monitoring of Small Arctic Catchmentsâ€”A Case Study on Qikiqtaruk (Herschel Island), Canada. <i>Remote Sensing</i> , 2018, 10, 1155.	1.8	10
26	Increasing coastal slump activity impacts the release of sediment and organic carbon into the Arctic Ocean. <i>Biogeosciences</i> , 2018, 15, 1483-1495.	1.3	22
27	Climatic, geomorphologic and hydrologic perturbations as drivers for midâ€”to late Holocene development of iceâ€”wedge polygons in the western Canadian Arctic. <i>Permafrost and Periglacial Processes</i> , 2018, 29, 164-181.	1.5	15
28	Monitoring Inter- and Intra-Seasonal Dynamics of Rapidly Degrading Ice-Rich Permafrost Riverbanks in the Lena Delta with TerraSAR-X Time Series. <i>Remote Sensing</i> , 2018, 10, 51.	1.8	28
29	Regional environmental change versus local signal preservation in Holocene thermokarst lake sediments: A case study from Herschel Island, Yukon (Canada). <i>Journal of Paleolimnology</i> , 2018, 60, 77-96.	0.8	18
30	Knowledge Transfer by the Global Terrestrial Network for Permafrost (GTN-P). <i>SpringerBriefs in Earth System Sciences</i> , 2018, , 73-78.	0.0	0
31	Coastal erosion and mass wasting along the Canadian Beaufort Sea based on annual airborne LiDAR elevation data. <i>Geomorphology</i> , 2017, 293, 331-346.	1.1	67
32	Effect of Terrain Characteristics on Soil Organic Carbon and Total Nitrogen Stocks in Soils of Herschel Island, Western Canadian Arctic. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 92-107.	1.5	46
33	Transformation of terrestrial organic matter along thermokarst-affected permafrost coasts in the Arctic. <i>Science of the Total Environment</i> , 2017, 581-582, 434-447.	3.9	45
34	Tundra vegetation stability versus lake-basin variability on the Yukon Coastal Plain (NW Canada) during the past three centuries. <i>Holocene</i> , 2017, 27, 1846-1858.	0.9	7
35	Collapsing Arctic coastlines. <i>Nature Climate Change</i> , 2017, 7, 6-7.	8.1	145
36	Terrain controls on the occurrence of coastal retrogressive thaw slumps along the Yukon Coast, Canada. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1619-1634.	1.0	49

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37	Application of portable free-fall penetrometer for geotechnical investigation of Arctic nearshore zone. Canadian Geotechnical Journal, 2017, 54, 31-46.	1.4	24
38	Eroding permafrost coasts release low amounts of dissolved organic carbon (DOC) from ground ice into the nearshore zone of the Arctic Ocean. Global Biogeochemical Cycles, 2016, 30, 1054-1068.	1.9	35
39	Vegetation composition and shrub extent on the Yukon coast, Canada, are strongly linked to ice-wedge polygon degradation. Polar Research, 2016, 35, 27489.	1.6	33
40	Relation between planimetric and volumetric measurements of permafrost coast erosion: a case study from Herschel Island, western Canadian Arctic. Polar Research, 2016, 35, 30313.	1.6	36
41	Holocene ice-wedge polygon development in northern Yukon permafrost peatlands (Canada). Quaternary Science Reviews, 2016, 147, 279-297.	1.4	39
42	Erosion and Flooding – Threats to Coastal Infrastructure in the Arctic: A Case Study from Herschel Island, Yukon Territory, Canada. Estuaries and Coasts, 2016, 39, 900-915.	1.0	83
43	Variability in transport of terrigenous material on the shelves and the deep Arctic Ocean during the Holocene. Polar Research, 2015, 34, 24964.	1.6	59
44	Dissolved organic carbon (DOC) in Arctic ground ice. Cryosphere, 2015, 9, 737-752.	1.5	42
45	GEOTECHNICAL INVESTIGATION OF COASTAL SEDIMENTS AT THE ARCTIC PERMAFROST EDGE: PRELIMINARY RESULTS FROM AN EXPEDITION TO HERSCHEL ISLAND. , 2015, , .		1
46	Geotechnical Investigation of Pore Pressure Behavior of Muddy Seafloor Sediments in an Arctic Permafrost Environment. , 2015, , .		3
47	The new database of the Global Terrestrial Network for Permafrost (GTN-P). Earth System Science Data, 2015, 7, 245-259.	3.7	97
48	Ocean colour remote sensing in the southern Laptev Sea: evaluation and applications. Biogeosciences, 2014, 11, 4191-4210.	1.3	28
49	Coastal changes in the Arctic. Geological Society Special Publication, 2014, 388, 103-129.	0.8	79
50	The impact of the permafrost carbon feedback on global climate. Environmental Research Letters, 2014, 9, 085003.	2.2	279
51	Microbial Functional Potential and Community Composition in Permafrost-Affected Soils of the NW Canadian Arctic. PLoS ONE, 2014, 9, e84761.	1.1	79
52	Recent Progress Regarding Permafrost Coasts. Permafrost and Periglacial Processes, 2013, 24, 120-130.	1.5	62
53	Periglacial landscape dynamics in the western Canadian Arctic: Results from a thermokarst lake record on a push moraine (Herschel Island, Yukon Territory). Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 381-382, 15-25.	1.0	20
54	Eastern Beringia and beyond: Late Wisconsinan and Holocene landscape dynamics along the Yukon Coastal Plain, Canada. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 319-320, 28-45.	1.0	69

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55	Late glacial and Holocene sedimentation, vegetation, and climate history from easternmost Beringia (northern Yukon Territory, Canada). <i>Quaternary Research</i> , 2012, 78, 549-560.	1.0	18
56	Permafrost – Physical Aspects, Carbon Cycling, Databases and Uncertainties. , 2012, , 159-185.		20
57	Modern and Late Holocene Retrogressive Thaw Slump Activity on the Yukon Coastal Plain and Herschel Island, Yukon Territory, Canada. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 39-51.	1.5	75
58	Methane-cycling communities in a permafrost-affected soil on Herschel Island, Western Canadian Arctic: active layer profiling of <i>mcrA</i> and <i>pmoA</i> genes. <i>FEMS Microbiology Ecology</i> , 2012, 82, 287-302.	1.3	72
59	The Arctic Coastal Dynamics Database: A New Classification Scheme and Statistics on Arctic Permafrost Coastlines. <i>Estuaries and Coasts</i> , 2012, 35, 383-400.	1.0	298
60	Past and Present Permafrost Temperatures in the Abisko Area: Redrilling of Boreholes. <i>Ambio</i> , 2011, 40, 558-565.	2.8	39
61	Coastal erosion dynamics on the permafrost-dominated Bykovsky Peninsula, north Siberia, 1951–2006. <i>Polar Research</i> , 2011, 30, 7341.	1.6	67
62	Origin and characteristics of massive ground ice on Herschel Island (western Canadian Arctic) as revealed by stable water isotope and Hydrochemical signatures. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 26-38.	1.5	54
63	Report from the International Permafrost Association. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 390-391.	1.5	0
64	Multi-Decadal Changes in Tundra Environments and Ecosystems: Synthesis of the International Polar Year-Back to the Future Project (IPY-BTF). <i>Ambio</i> , 2011, 40, 705-716.	2.8	98
65	State of the Climate in 2010. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, S1-S236.	1.7	135
66	Towards a calculation of organic carbon release from erosion of Arctic coasts using non-fractal coastline datasets. <i>Marine Geology</i> , 2009, 257, 1-10.	0.9	25
67	Professional Development Training for Early Career Polar Researchers: Association of Polar Early Career Scientists Career Development Workshop; St. Petersburg, Russia, 7 July 2008. <i>Eos</i> , 2008, 89, 434.	0.1	1
68	Fifty years of coastal erosion and retrogressive thaw slump activity on Herschel Island, southern Beaufort Sea, Yukon Territory, Canada. <i>Geomorphology</i> , 2008, 95, 84-102.	1.1	267
69	The First Training Workshop on Permafrost Research Methods: IMPETUS 2007: OSL-APECS-PYRN Training Workshop; St. Petersburg, Russia, 29 November to 2 December 2007. <i>Eos</i> , 2008, 89, 97.	0.1	0
70	Sediment budgets and rates of sediment transfer across cold environments in Europe: introduction and background to the European Science Foundation network – sedimentary source-to-sink fluxes in cold environments (sediflux). <i>Geografiska Annaler, Series A: Physical Geography</i> , 2007, 89, 1-3.	0.6	3
71	Report from the International Permafrost Association: education and outreach for the International Polar Year. <i>Permafrost and Periglacial Processes</i> , 2007, 18, 209-213.	1.5	3
72	Temporal stereophotogrammetric analysis of retrogressive thaw slumps on Herschel Island, Yukon Territory. <i>Natural Hazards and Earth System Sciences</i> , 2005, 5, 413-423.	1.5	72

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73	Mercury in Sediment Core Samples From Deep Siberian Ice-Rich Permafrost. <i>Frontiers in Earth Science</i> , 0, 9, .	0.8	3