Hugues Lantuit

List of Publications by Year
in descending order

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	Permafrost is warming at a global scale. Nature Communications, 2019, 10, 264.	5.8	1,039
2	The Arctic Coastal Dynamics Database: A New Classification Scheme and Statistics on Arctic Permafrost Coastlines. Estuaries and Coasts, 2012, 35, 383-400.	1.0	298
3	The impact of the permafrost carbon feedback on global climate. Environmental Research Letters, 2014, 9, 085003.	2.2	279
4	Fifty years of coastal erosion and retrogressive thaw slump activity on Herschel Island, southern Beaufort Sea, Yukon Territory, Canada. Geomorphology, 2008, 95, 84-102.	1.1	267
5	Collapsing Arctic coastlines. Nature Climate Change, 2017, 7, 6-7.	8.1	145
6	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	1.7	135
7	Multi-Decadal Changes in Tundra Environments and Ecosystems: Synthesis of the International Polar Year-Back to the Future Project (IPY-BTF). Ambio, 2011, 40, 705-716.	2.8	98
8	The new database of the Global Terrestrial Network for Permafrost (GTN-P). Earth System Science Data, 2015, 7, 245-259.	3.7	97
9	Erosion and Floodingâ€"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
10	Coastal changes in the Arctic. Geological Society Special Publication, 2014, 388, 103-129.	0.8	79
11	Microbial Functional Potential and Community Composition in Permafrost-Affected Soils of the NW Canadian Arctic. PLoS ONE, 2014, 9, e84761.	1.1	79
12	Modern and Late Holocene Retrogressive Thaw Slump Activity on the Yukon Coastal Plain and Herschel Island, Yukon Territory, Canada. Permafrost and Periglacial Processes, 2012, 23, 39-51.	1.5	75
13	Drivers, dynamics and impacts of changing Arctic coasts. Nature Reviews Earth & Environment, 2022, 3, 39-54.	12.2	74
14	Temporal stereophotogrammetric analysis of retrogressive thaw slumps on Herschel Island, Yukon Territory. Natural Hazards and Earth System Sciences, 2005, 5, 413-423.	1.5	72
15	Methane-cycling communities in a permafrost-affected soil on Herschel Island, Western Canadian Arctic: active layer profiling ofmcrAandpmoAgenes. FEMS Microbiology Ecology, 2012, 82, 287-302.	1.3	72
16	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
17	Coastal erosion dynamics on the permafrost-dominated Bykovsky Peninsula, north Siberia, 1951â€"2006. Polar Research, 2011, 30, 7341.	1.6	67
18	Coastal erosion and mass wasting along the Canadian Beaufort Sea based on annual airborne LiDAR elevation data. Geomorphology, 2017, 293, 331-346.	1.1	67

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19	Recent Progress Regarding Permafrost Coasts. Permafrost and Periglacial Processes, 2013, 24, 120-130.	1.5	62
20	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
21	Submarine Permafrost Map in the Arctic Modeled Using 1â€Ð Transient Heat Flux (SuPerMAP). Journal of Geophysical Research: Oceans, 2019, 124, 3490-3507.	1.0	55
22	Origin and characteristics of massive ground ice on Herschel Island (western Canadian Arctic) as revealed by stable water isotope and Hydrochemical signatures. Permafrost and Periglacial Processes, 2011, 22, 26-38.	1.5	54
23	Rapid CO₂ Release From Eroding Permafrost in Seawater. Geophysical Research Letters, 2019, 46, 11244-11252.	1.5	54
24	Coastal Erosion of Permafrost Soils Along the Yukon Coastal Plain and Fluxes of Organic Carbon to the Canadian Beaufort Sea. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 406-422.	1.3	52
25	Rapid retreat of permafrost coastline observed with aerial drone photogrammetry. Cryosphere, 2019, 13, 1513-1528.	1.5	51
26	Variability in Rates of Coastal Change Along the Yukon Coast, 1951 to 2015. Journal of Geophysical Research F: Earth Surface, 2018, 123, 779-800.	1.0	50
27	Terrain controls on the occurrence of coastal retrogressive thaw slumps along the Yukon Coast, Canada. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1619-1634.	1.0	49
28	Effect of Terrain Characteristics on Soil Organic Carbon and Total Nitrogen Stocks in Soils of Herschel Island, Western Canadian Arctic. Permafrost and Periglacial Processes, 2017, 28, 92-107.	1.5	46
29	Transformation of terrestrial organic matter along thermokarst-affected permafrost coasts in the Arctic. Science of the Total Environment, 2017, 581-582, 434-447.	3.9	45
30	Dissolved organic carbon (DOC) in Arctic ground ice. Cryosphere, 2015, 9, 737-752.	1.5	42
31	Impacts of past and future coastal changes on the Yukon coast â€" threats for cultural sites, infrastructure, and travel routes. Arctic Science, 2019, 5, 107-126.	0.9	40
32	Population living on permafrost in the Arctic. Population and Environment, 2021, 43, 22-38.	1.3	40
33	Past and Present Permafrost Temperatures in the Abisko Area: Redrilling of Boreholes. Ambio, 2011, 40, 558-565.	2.8	39
34	Holocene ice-wedge polygon development in northern Yukon permafrost peatlands (Canada). Quaternary Science Reviews, 2016, 147, 279-297.	1.4	39
35	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
36	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

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37	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
38	Ocean colour remote sensing in the southern Laptev Sea: evaluation and applications. Biogeosciences, 2014, 11, 4191-4210.	1.3	28
39	Monitoring Inter- and Intra-Seasonal Dynamics of Rapidly Degrading Ice-Rich Permafrost Riverbanks in the Lena Delta with TerraSAR-X Time Series. Remote Sensing, 2018, 10, 51.	1.8	28
40	Burial and Origin of Permafrostâ€Derived Carbon in the Nearshore Zone of the Southern Canadian Beaufort Sea. Geophysical Research Letters, 2020, 47, e2019GL085897.	1.5	28
41	Towards a calculation of organic carbon release from erosion of Arctic coasts using non-fractal coastline datasets. Marine Geology, 2009, 257, 1-10.	0.9	25
42	Application of portable free-fall penetrometer for geotechnical investigation of Arctic nearshore zone. Canadian Geotechnical Journal, 2017, 54, 31-46.	1.4	24
43	Increasing coastal slump activity impacts the release of sediment and organic carbon into the Arctic Ocean. Biogeosciences, 2018, 15, 1483-1495.	1.3	22
44	Long-Term High-Resolution Sediment and Sea Surface Temperature Spatial Patterns in Arctic Nearshore Waters Retrieved Using 30-Year Landsat Archive Imagery. Remote Sensing, 2019, 11, 2791.	1.8	21
45	Permafrost Carbon and CO2 Pathways Differ at Contrasting Coastal Erosion Sites in the Canadian Arctic. Frontiers in Earth Science, 2021, 9, .	0.8	21
46	Permafrost â€“ Physical Aspects, Carbon Cycling, Databases and Uncertainties. , 2012, , 159-185.		20
47	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
48	Summer rainfall dissolved organic carbon, solute, and sediment fluxes in a small Arctic coastal catchment on Herschel Island (Yukon Territory, Canada). Arctic Science, 2018, 4, 750-780.	0.9	20
49	Comparisons of dissolved organic matter and its optical characteristics in small low and high Arctic catchments. Biogeosciences, 2019, 16, 4535-4553.	1.3	20
50	Late glacial and Holocene sedimentation, vegetation, and climate history from easternmost Beringia (northern Yukon Territory, Canada). Quaternary Research, 2012, 78, 549-560.	1.0	18
51	Regional environmental change versus local signal preservation in Holocene thermokarst lake sediments: A case study from Herschel Island, Yukon (Canada). Journal of Paleolimnology, 2018, 60, 77-96.	0.8	18
52	Nearshore Zone Dynamics Determine Pathway of Organic Carbon From Eroding Permafrost Coasts. Geophysical Research Letters, 2020, 47, e2020GL088561.	1.5	18
53	Permafrost Causes Unique Fineâ€Scale Spatial Variability Across Tundra Soils. Global Biogeochemical Cycles, 2021, 35, e2020GB006659.	1.9	16
54	Climatic, geomorphologic and hydrologic perturbations as drivers for midâ€to late Holocene development of iceâ€wedge polygons in the western Canadian Arctic. Permafrost and Periglacial Processes, 2018, 29, 164-181.	1.5	15

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55	TerraSAR-X Time Series Fill a Gap in Spaceborne Snowmelt Monitoring of Small Arctic Catchmentsâ€”A Case Study on Qikiqtaruk (Herschel Island), Canada. Remote Sensing, 2018, 10, 1155.	1.8	10
56	Spatial Variability of Dissolved Organic Carbon, Solutes, and Suspended Sediment in Disturbed Low Arctic Coastal Watersheds. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005505.	1.3	10
57	Spatio-Temporal Variability of Suspended Particulate Matter in a High-Arctic Estuary (Adventfjorden,) Tj ETQq1 1 0.784314 rgBT /Over	1.8	9
58	Dissolved organic matter characterization in soils and streams in a small coastal low-Arctic catchment. Biogeosciences, 2022, 19, 3073-3097.	1.3	9
59	Tundra vegetation stability versus lake-basin variability on the Yukon Coastal Plain (NW Canada) during the past three centuries. Holocene, 2017, 27, 1846-1858.	0.9	7
60	Distribution of carbon and nitrogen along hillslopes in three valleys on Herschel Island, Yukon Territory, Canada. Catena, 2019, 178, 132-140.	2.2	7
61	The Arctic Nearshore Turbidity Algorithm (ANTA) - A multi sensor turbidity algorithm for Arctic nearshore environments. Science of Remote Sensing, 2021, 4, 100036.	2.2	6
62	Sediment budgets and rates of sediment transfer across cold environments in europe: introduction and background to the european science foundation network â€˜sedimentary sourceâ€•toâ€•sink fluxes in cold environmentsâ€™(sediflux). Geografiska Annaler, Series A: Physical Geography, 2007, 89, 1-3.	0.6	3
63	Report from the International Permafrost Association: education and outreach for the International Polar Year. Permafrost and Periglacial Processes, 2007, 18, 209-213.	1.5	3
64	Geotechnical Investigation of Pore Pressure Behavior of Muddy Seafloor Sediments in an Arctic Permafrost Environment. , 2015, , .		3
65	Mercury in Sediment Core Samples From Deep Siberian Ice-Rich Permafrost. Frontiers in Earth Science, 0, 9, .	0.8	3
66	Potential of X-band polarimetric synthetic aperture radar co-polar phase difference for arctic snow depth estimation. Cryosphere, 2022, 16, 2163-2181.	1.5	2
67	Professional Development Training for Early Career Polar Researchers: Association of Polar Early Career Scientists Career Development Workshop; St. Petersburg, Russia, 7 July 2008. Eos, 2008, 89, 434.	0.1	1
68	GEOTECHNICAL INVESTIGATION OF COASTAL SEDIMENTS AT THE ARCTIC PERMAFROST EDGE: PRELIMINARY RESULTS FROM AN EXPEDITION TO HERSCHEL ISLAND. , 2015, , .		1
69	The Permafrost Young Researchers Network (PYRN) is getting older: The past, present, and future of our evolving community. Polar Record, 2019, 55, 216-219.	0.4	1
70	The First Training Workshop on Permafrost Research Methods: IMPETUS 2007: OSL-APECS-PYRN Training Workshop; St. Petersburg, Russia, 29 November to 2 December 2007. Eos, 2008, 89, 97.	0.1	0
71	Report from the International Permafrost Association. Permafrost and Periglacial Processes, 2011, 22, 390-391.	1.5	0
72	Knowledge Transfer by the Global Terrestrial Network for Permafrost (GTN-P). SpringerBriefs in Earth System Sciences, 2018, , 73-78.	0.0	0

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73	Drivers of Turbidity and Its Seasonal Variability at Herschel Island Qikiqtaruk (Western Canadian) Tj ETQq1 1 0.784314 rgBT /Overlock	1.2	0