Michael Fritz

List of Publications by Year
in descending order

42 papers	1,368 citations	331670 21 h-index	345221 36 g-index
65 all docs	65 docs citations	65 times ranked	1423 citing authors

#	Article	IF	Citations
1	Collapsing Arctic coastlines. Nature Climate Change, 2017, 7, 6-7.	18.8	145
2	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.	2.2	83
3	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.	3.4	75
4	Eastern Beringia and beyond: Late Wisconsinan and Holocene landscape dynamics along the Yukon Coastal Plain, Canada. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 319-320, 28-45.	2.3	69
5	Coastal erosion and mass wasting along the Canadian Beaufort Sea based on annual airborne LiDAR elevation data. Geomorphology, 2017, 293, 331-346.	2.6	67
6	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
7	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.	3.4	54
8	Rapid CO₂ Release From Eroding Permafrost in Seawater. Geophysical Research Letters, 2019, 46, 11244-11252.	4.0	54
9	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.	3.0	52
10	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.	3.4	46
11	Transformation of terrestrial organic matter along thermokarst-affected permafrost coasts in the Arctic. Science of the Total Environment, 2017, 581-582, 434-447.	8.0	45
12	Dissolved organic carbon (DOC) in Arctic ground ice. Cryosphere, 2015, 9, 737-752.	3.9	42
13	Holocene ice-wedge polygon development in northern Yukon permafrost peatlands (Canada). Quaternary Science Reviews, 2016, 147, 279-297.	3.0	39
14	Rapid Fluvio-Thermal Erosion of a Yedoma Permafrost Cliff in the Lena River Delta. Frontiers in Earth Science, 2020, 8, .	1.8	38
15	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
16	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.	4.9	35
17	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
18	Permafrost degradation on a warmer Earth: Challenges and perspectives. Current Opinion in Environmental Science and Health, 2018, 5, 14-18.	4.1	33

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19	Brief Communication: Future avenues for permafrost science from the perspective of early career researchers. Cryosphere, 2015, 9, 1715-1720.	3.9	31
20	Burial and Origin of Permafrostâ€Derived Carbon in the Nearshore Zone of the Southern Canadian Beaufort Sea. Geophysical Research Letters, 2020, 47, e2019GL085897.	4.0	28
21	Holocene thermokarst and pingo development in the Kolyma Lowland (NE Siberia). Permafrost and Periglacial Processes, 2018, 29, 182-198.	3.4	26
22	Permafrost Carbon and CO2 Pathways Differ at Contrasting Coastal Erosion Sites in the Canadian Arctic. Frontiers in Earth Science, 2021, 9, .	1.8	21
23	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.	2.3	20
24	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.	2.3	20
25	Comparisons of dissolved organic matter and its optical characteristics in small low and high Arctic catchments. Biogeosciences, 2019, 16, 4535-4553.	3.3	20
26	Late glacial and Holocene sedimentation, vegetation, and climate history from easternmost Beringia (northern Yukon Territory, Canada). Quaternary Research, 2012, 78, 549-560.	1.7	18
27	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.	1.6	18
28	Nearshore Zone Dynamics Determine Pathway of Organic Carbon From Eroding Permafrost Coasts. Geophysical Research Letters, 2020, 47, e2020GL088561.	4.0	18
29	Northeast Siberian Permafrost Iceâ€Wedge Stable Isotopes Depict Pronounced Last Glacial Maximum Winter Cooling. Geophysical Research Letters, 2021, 48, e2020GL092087.	4.0	17
30	The cryostratigraphy of the Yedoma cliff of Sobo-Sise Island (Lena delta) reveals permafrost dynamics in the central Laptev Sea coastal region during the last 52â€‰kyr. Cryosphere, 2020, 14, 4525-4551.	3.9	17
31	Impacts of shore expansion and catchment characteristics on lacustrine thermokarst records in permafrost lowlands, Alaska Arctic Coastal Plain. Arktos, 2016, 2, 1.	1.0	16
32	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.	3.4	15
33	Arctic in Rapid Transition: Priorities for the future of marine and coastal research in the Arctic. Polar Science, 2016, 10, 364-373.	1.2	14
34	Hot trends and impact in permafrost science. Permafrost and Periglacial Processes, 2020, 31, 461-471.	3.4	14
35	First pan-Arctic assessment of dissolved organic carbon in lakes of the permafrost region. Biogeosciences, 2021, 18, 3917-3936.	3.3	12
36	Paleo-Ecology of the Yedoma Ice Complex on Sobo-Sise Island (EasternLena Delta, Siberian Arctic). Frontiers in Earth Science, 2021, 9, .	1.8	8

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37	Tundra vegetation stability versus lake-basin variability on the Yukon Coastal Plain (NW Canada) during the past three centuries. Holocene, 2017, 27, 1846-1858.	1.7	7
38	A new local meteoric water line for Inuvik (NT, Canada). Earth System Science Data, 2022, 14, 57-63.	9.9	7
39	â€œFrozen-Ground Cartoonsâ€• Permafrost comics as an innovative tool for polar outreach, education, and engagement. Polar Record, 2018, 54, 366-372.	0.8	6
40	The Permafrost Young Researchers Network (PYRN) is getting older: The past, present, and future of our evolving community. Polar Record, 2019, 55, 216-219.	0.8	1
41	Redrawing permafrost outreach. Nature Reviews Earth & Environment, 2022, 3, 7-7.	29.7	1
42	Burial and Origin of Permafrost Derived Carbon in the Nearshore Zone of the Southern Canadian Beaufort Sea. , 2019, , .		0