

Bo Elberling

List of Publications by Year in descending order

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Version: 2024-02-01

223
papers

13,312
citations

23544

58
h-index

29127

104
g-index

253
all docs

253
docs citations

253
times ranked

14402
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimated stocks of circumpolar permafrost carbon with quantified uncertainty ranges and identified data gaps. <i>Biogeosciences</i> , 2014, 11, 6573-6593.	1.3	1,079
2	Ecological Dynamics Across the Arctic Associated with Recent Climate Change. <i>Science</i> , 2009, 325, 1355-1358.	6.0	1,043
3	Quantifying global soil carbon losses in response to warming. <i>Nature</i> , 2016, 540, 104-108.	13.7	879
4	Northern Hemisphere permafrost map based on TTOP modelling for 2000–2016 at 1-km ² scale. <i>Earth-Science Reviews</i> , 2019, 193, 299-316.	4.0	462
5	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018, 562, 57-62.	13.7	451
6	Circumpolar assessment of permafrost C quality and its vulnerability over time using long-term incubation data. <i>Global Change Biology</i> , 2014, 20, 641-652.	4.2	231
7	Large loss of CO ₂ in winter observed across the northern permafrost region. <i>Nature Climate Change</i> , 2019, 9, 852-857.	8.1	225
8	Soil respiration and rates of soil carbon turnover differ among six common European tree species. <i>Forest Ecology and Management</i> , 2012, 264, 185-196.	1.4	219
9	Microbial Oxidation of Pyrite Coupled to Nitrate Reduction in Anoxic Groundwater Sediment. <i>Environmental Science & Technology</i> , 2009, 43, 4851-4857.	4.6	208
10	Long-term CO ₂ production following permafrost thaw. <i>Nature Climate Change</i> , 2013, 3, 890-894.	8.1	186
11	Uncoupling of microbial CO ₂ production and release in frozen soil and its implications for field studies of arctic C cycling. <i>Soil Biology and Biochemistry</i> , 2003, 35, 263-272.	4.2	174
12	Greater temperature sensitivity of plant phenology at colder sites: implications for convergence across northern latitudes. <i>Global Change Biology</i> , 2017, 23, 2660-2671.	4.2	171
13	Organic Carbon Dynamics in Different Soil Types After Conversion of Forest to Agriculture. <i>Land Degradation and Development</i> , 2015, 26, 272-283.	1.8	166
14	A new data set for estimating organic carbon storage to 3 m depth in soils of the northern circumpolar permafrost region. <i>Earth System Science Data</i> , 2013, 5, 393-402.	3.7	148
15	Permafrost collapse after shrub removal shifts tundra ecosystem to a methane source. <i>Nature Climate Change</i> , 2015, 5, 67-70.	8.1	147
16	High nitrous oxide production from thawing permafrost. <i>Nature Geoscience</i> , 2010, 3, 332-335.	5.4	141
17	Spatial heterogeneity and environmental predictors of permafrost region soil organic carbon stocks. <i>Science Advances</i> , 2021, 7, .	4.7	130
18	Carbon, nitrogen and temperature controls on microbial activity in soils from an Antarctic dry valley. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3130-3140.	4.2	122

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19	Lability of soil organic carbon in tropical soils with different clay minerals. <i>Soil Biology and Biochemistry</i> , 2010, 42, 888-895.	4.2	120
20	Silicon increases the phosphorus availability of Arctic soils. <i>Scientific Reports</i> , 2019, 9, 449.	1.6	115
21	Annual soil CO ₂ effluxes in the High Arctic: The role of snow thickness and vegetation type. <i>Soil Biology and Biochemistry</i> , 2007, 39, 646-654.	4.2	111
22	Late-Holocene glacier growth in Svalbard, documented by subglacial relict vegetation and living soil microbes. <i>Holocene</i> , 2005, 15, 396-407.	0.9	107
23	Winter warming as an important co-driver for <i>Betula nana</i> growth in western Greenland during the past century. <i>Global Change Biology</i> , 2015, 21, 2410-2423.	4.2	104
24	Linking Soil O ₂ , CO ₂ , and CH ₄ Concentrations in a Wetland Soil: Implications for CO ₂ and CH ₄ Fluxes. <i>Environmental Science & Technology</i> , 2011, 45, 3393-3399.	4.6	103
25	Temporal trends in N ₂ O flux dynamics in a Danish wetland – effects of plant-mediated gas transport of N ₂ O and O ₂ following changes in water level and soil mineral N availability. <i>Global Change Biology</i> , 2012, 18, 210-222.	4.2	100
26	Soil and Plant Community-Characteristics and Dynamics at Zackenberg. <i>Advances in Ecological Research</i> , 2008, 40, 223-248.	1.4	99
27	Linking yields of upland rice in shifting cultivation to fallow length and soil properties. <i>Agriculture, Ecosystems and Environment</i> , 2006, 113, 139-149.	2.5	98
28	The importance of winter in annual ecosystem respiration in the High Arctic: effects of snow depth in two vegetation types. <i>Polar Research</i> , 2010, 29, 58-74.	1.6	98
29	Distinct summer and winter bacterial communities in the active layer of Svalbard permafrost revealed by DNA- and RNA-based analyses. <i>Frontiers in Microbiology</i> , 2015, 6, 399.	1.5	94
30	Net regional methane sink in High Arctic soils of northeast Greenland. <i>Nature Geoscience</i> , 2015, 8, 20-23.	5.4	93
31	Bacterial and chemical oxidation of pyritic mine tailings at low temperatures. <i>Journal of Contaminant Hydrology</i> , 2000, 41, 225-238.	1.6	92
32	Deeper snow alters soil nutrient availability and leaf nutrient status in high Arctic tundra. <i>Biogeochemistry</i> , 2015, 124, 81-94.	1.7	90
33	Nitrous oxide emissions from permafrost-affected soils. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 420-434.	12.2	90
34	Meteorological trends (1991–2004) at Arctic Station, Central West Greenland (69°15'N) in a 130 years perspective. <i>Geografisk Tidsskrift</i> , 2006, 106, 45-55.	0.4	86
35	Controls on the distribution of productivity and organic resources in Antarctic Dry Valley soils. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2687-2695.	1.2	83
36	Statistical upscaling of ecosystem CO ₂ fluxes across the terrestrial tundra and boreal domain: Regional patterns and uncertainties. <i>Global Change Biology</i> , 2021, 27, 4040-4059.	4.2	83

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37	Field determination of sulphide oxidation rates in mine tailings. <i>Water Resources Research</i> , 1996, 32, 1773-1784.	1.7	82
38	Future active layer dynamics and carbon dioxide production from thawing permafrost layers in Northeast Greenland. <i>Global Change Biology</i> , 2011, 17, 911-926.	4.2	80
39	Distribution and dynamics of soil organic matter in an Antarctic dry valley. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3095-3106.	4.2	79
40	Warming shortens flowering seasons of tundra plant communities. <i>Nature Ecology and Evolution</i> , 2019, 3, 45-52.	3.4	79
41	A combined kinetic and diffusion model for pyrite oxidation in tailings: a change in controls with time. <i>Journal of Hydrology</i> , 1994, 157, 47-60.	2.3	78
42	Emission of CO ₂ , CH ₄ and N ₂ O from lakeshore soils in an Antarctic dry valley. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3120-3129.	4.2	75
43	Delta progradation in Greenland driven by increasing glacial mass loss. <i>Nature</i> , 2017, 550, 101-104.	13.7	74
44	Evaluation of sulphide oxidation rates: a laboratory study comparing oxygen fluxes and rates of oxidation product release. <i>Canadian Geotechnical Journal</i> , 1994, 31, 375-383.	1.4	72
45	Applying foraminiferal stratigraphy as a biomarker for heavy metal contamination and mining impact in a fiord in West Greenland. <i>Marine Environmental Research</i> , 2003, 55, 235-256.	1.1	72
46	Storage, Landscape Distribution, and Burial History of Soil Organic Matter in Contrasting Areas of Continuous Permafrost. <i>Arctic, Antarctic, and Alpine Research</i> , 2015, 47, 71-88.	0.4	71
47	Enhanced summer warming reduces fungal decomposer diversity and litter mass loss more strongly in dry than in wet tundra. <i>Global Change Biology</i> , 2017, 23, 406-420.	4.2	71
48	Reduced net methane emissions due to microbial methane oxidation in a warmer Arctic. <i>Nature Climate Change</i> , 2020, 10, 317-321.	8.1	70
49	Gas transport in a confined unsaturated zone during atmospheric pressure cycles. <i>Water Resources Research</i> , 1998, 34, 2855-2862.	1.7	68
50	Optically stimulated luminescence dating of a Holocene beach ridge plain in Northern Jutland, Denmark. <i>Quaternary Geochronology</i> , 2006, 1, 305-312.	0.6	68
51	Holocene environmental reconstruction from deltaic deposits in northeast Greenland. <i>Journal of Quaternary Science</i> , 2002, 17, 145-160.	1.1	67
52	Enzymatic activities and microbial communities in an Antarctic dry valley soil: Responses to C and N supplementation. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2130-2136.	4.2	67
53	Annual carbon fixation in terrestrial populations of <i>Nostoc commune</i> (Cyanobacteria) from an Antarctic dry valley is driven by temperature regime. <i>Global Change Biology</i> , 2007, 13, 1224-1237.	4.2	66
54	High Arctic plant phenology is determined by snowmelt patterns but duration of phenological periods is fixed: an example of periodicity. <i>Environmental Research Letters</i> , 2016, 11, 125006.	2.2	66

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55	Microscale measurements of oxygen diffusion and consumption in subaqueous sulfide tailings. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1897-1905.	1.6	65
56	Snow cover and extreme winter warming events control flower abundance of some, but not all species in high arctic <sc>S</sc>valbard. <i>Ecology and Evolution</i> , 2013, 3, 2586-2599.	0.8	65
57	Seasonal trends of soil CO ₂ dynamics in a soil subject to freezing. <i>Journal of Hydrology</i> , 2003, 276, 159-175.	2.3	63
58	Initial Stages of Tundra Shrub Litter Decomposition May Be Accelerated by Deeper Winter Snow But Slowed Down by Spring Warming. <i>Ecosystems</i> , 2016, 19, 155-169.	1.6	63
59	Isotopic evidence for the provenance and turnover of organic carbon by soil microorganisms in the Antarctic dry valleys. <i>Environmental Microbiology</i> , 2009, 11, 597-608.	1.8	61
60	Temperature and oxygen control on pyrite oxidation in frozen mine tailings. <i>Cold Regions Science and Technology</i> , 2005, 41, 121-133.	1.6	60
61	Methane oxidation in contrasting soil types: responses to experimental warming with implication for landscape-integrated CH ₄ budget. <i>Global Change Biology</i> , 2017, 23, 966-976.	4.2	57
62	Tundra Trait Team: A database of plant traits spanning the tundra biome. <i>Global Ecology and Biogeography</i> , 2018, 27, 1402-1411.	2.7	57
63	Soil carbon stocks, mineralization rates, and CO ₂ effluxes under 10 tree species on contrasting soil types. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1277-1284.	0.8	54
64	Soil heterogeneity effects on O ₂ distribution and CH ₄ emissions from wetlands: In situ and mesocosm studies with planar O ₂ optodes and membrane inlet mass spectrometry. <i>Soil Biology and Biochemistry</i> , 2010, 42, 2254-2265.	4.2	52
65	Flooding-induced N ₂ O emission bursts controlled by pH and nitrate in agricultural soils. <i>Soil Biology and Biochemistry</i> , 2014, 69, 17-24.	4.2	52
66	Thermokarst dynamics and soil organic matter characteristics controlling initial carbon release from permafrost soils in the Siberian Yedoma region. <i>Sedimentary Geology</i> , 2016, 340, 38-48.	1.0	52
67	Global plant trait relationships extend to the climatic extremes of the tundra biome. <i>Nature Communications</i> , 2020, 11, 1351.	5.8	52
68	Winter carbon dioxide effluxes from Arctic ecosystems: An overview and comparison of methodologies. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	1.9	51
69	Future permafrost conditions along environmental gradients in Zackenberg, Greenland. <i>Cryosphere</i> , 2015, 9, 719-735.	1.5	51
70	Methane fluxes and the functional groups of methanotrophs and methanogens in a young Arctic landscape on Disko Island, West Greenland. <i>Biogeochemistry</i> , 2015, 122, 15-33.	1.7	48
71	Direct current (DC) resistivity and induced polarization (IP) monitoring of active layer dynamics at high temporal resolution. <i>Cold Regions Science and Technology</i> , 2015, 119, 16-28.	1.6	45
72	Changes in soil organic matter following groundnut millet cropping at three locations in semi-arid Senegal, West Africa. <i>Agriculture, Ecosystems and Environment</i> , 2003, 96, 37-47.	2.5	44

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73	Geochemical trends in metal-contaminated fiord sediments near a former lead-zinc mine in West Greenland. <i>Applied Geochemistry</i> , 2002, 17, 493-502.	1.4	43
74	The Importance of Microbial Iron Sulfide Oxidation for Nitrate Depletion in Anoxic Danish Sediments. <i>Aquatic Geochemistry</i> , 2014, 20, 419-435.	1.5	43
75	Flocculated meltwater particles control Arctic land-sea fluxes of labile iron. <i>Scientific Reports</i> , 2016, 6, 24033.	1.6	43
76	Carbon stocks and fluxes in the high latitudes: using site-level data to evaluate Earth system models. <i>Biogeosciences</i> , 2017, 14, 5143-5169.	1.3	43
77	Divergence of Arctic shrub growth associated with sea ice decline. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33334-33344.	3.3	43
78	Winters are changing: snow effects on Arctic and alpine tundra ecosystems. <i>Arctic Science</i> , 2022, 8, 572-608.	0.9	43
79	Permafrost thawing in organic Arctic soils accelerated by ground heat production. <i>Nature Climate Change</i> , 2015, 5, 574-578.	8.1	42
80	Contrasting temperature trends across the ice-free part of Greenland. <i>Scientific Reports</i> , 2018, 8, 1586.	1.6	40
81	Geomorphological and cryostratigraphical analyses of the Zackenberg Valley, NE Greenland and significance of Holocene alluvial fans. <i>Geomorphology</i> , 2018, 303, 504-523.	1.1	40
82	Deepened winter snow increases stem growth and alters stem $\delta^{13}C$ and $\delta^{15}N$ in evergreen dwarf shrub <i>Cassiope tetragona</i> in high-arctic Svalbard tundra. <i>Environmental Research Letters</i> , 2015, 10, 044008.	2.2	39
83	Mercury exports from a High-Arctic river basin in Northeast Greenland (74°N) largely controlled by glacial lake outburst floods. <i>Science of the Total Environment</i> , 2015, 514, 83-91.	3.9	39
84	Biogenic volatile release from permafrost thaw is determined by the soil microbial sink. <i>Nature Communications</i> , 2018, 9, 3412.	5.8	39
85	Shallow soils are warmer under trees and tall shrubs across Arctic and Boreal ecosystems. <i>Environmental Research Letters</i> , 2021, 16, 015001.	2.2	39
86	Field Evaluation of Sulphide Oxidation Rates. <i>Hydrology Research</i> , 1993, 24, 323-338.	1.1	39
87	Environmental controls of the seasonal variation in oxygen uptake in sulfidic tailings deposited in a permafrost-affected area. <i>Water Resources Research</i> , 2001, 37, 99-107.	1.7	38
88	Arctic Vegetation Damage by Winter-Generated Coal Mining Pollution Released upon Thawing. <i>Environmental Science & Technology</i> , 2007, 41, 2407-2413.	4.6	38
89	Upstream Freshwater and Terrestrial Sources Are Differentially Reflected in the Bacterial Community Structure along a Small Arctic River and Its Estuary. <i>Frontiers in Microbiology</i> , 2016, 7, 1474.	1.5	38
90	High Arctic summer warming tracked by increased <i>Cassiope tetragona</i> growth in the world's northernmost polar desert. <i>Global Change Biology</i> , 2017, 23, 5006-5020.	4.2	38

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91	Effects of flooding-induced N ₂ O production, consumption and emission dynamics on the annual N ₂ O emission budget in wetland soil. <i>Soil Biology and Biochemistry</i> , 2012, 53, 9-17.	4.2	37
92	Modelling present and future permafrost thermal regimes in Northeast Greenland. <i>Cold Regions Science and Technology</i> , 2018, 146, 199-213.	1.6	37
93	Disentangling the complexity of permafrost soil by using high resolution profiling of microbial community composition, key functions and respiration rates. <i>Environmental Microbiology</i> , 2018, 20, 4328-4342.	1.8	37
94	Influence of Vegetation, Temperature, and Water Content on Soil Carbon Distribution and Mineralization in Four High Arctic Soils. <i>Arctic, Antarctic, and Alpine Research</i> , 2004, 36, 528-538.	0.4	36
95	Modelling water balance and nitrate leaching in temperate Norway spruce and beech forests located on the same soil type with the CoupModel. <i>Forest Ecology and Management</i> , 2006, 237, 545-556.	1.4	36
96	Temporal trends of dissolved weathering products released from a high Arctic coal mine waste rock pile in Svalbard (78°N). <i>Applied Geochemistry</i> , 2007, 22, 1025-1038.	1.4	36
97	Foraging deeply: Depth-specific plant nitrogen uptake in response to climate-induced N release and permafrost thaw in the High Arctic. <i>Global Change Biology</i> , 2020, 26, 6523-6536.	4.2	36
98	Pb isotopes as tracers of mining-related Pb in lichens, seaweed and mussels near a former Pb-Zn mine in West Greenland. <i>Environmental Pollution</i> , 2010, 158, 1319-1326.	3.7	35
99	Plant-mediated CH ₄ transport and C gas dynamics quantified in-situ in a <i>Phalaris arundinacea</i> -dominant wetland. <i>Plant and Soil</i> , 2011, 343, 287-301.	1.8	35
100	Footprints from the past: The influence of past human activities on vegetation and soil across five archaeological sites in Greenland. <i>Science of the Total Environment</i> , 2019, 654, 895-905.	3.9	35
101	A comparison of annual and seasonal carbon dioxide effluxes between sub-Arctic Sweden and High-Arctic Svalbard. <i>Polar Research</i> , 2010, 29, 75-84.	1.6	34
102	Long-term experimentally deepened snow decreases growing season respiration in a low- and high-Arctic tundra ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1236-1248.	1.3	34
103	High-Arctic Soil CO ₂ and CH ₄ Production Controlled by Temperature, Water, Freezing and Snow. <i>Advances in Ecological Research</i> , 2008, 40, 441-472.	1.4	33
104	Degradation of Archaeological Wood Under Freezing and Thawing Conditions—Effects of Permafrost and Climate Change. <i>Archaeometry</i> , 2014, 56, 479-495.	0.6	33
105	Nitrate-Controlled Anaerobic Oxidation of Pyrite by <i>Thiobacillus</i> Cultures. <i>Geomicrobiology Journal</i> , 2015, 32, 412-419.	1.0	33
106	Environmental Impact on an Arctic Soil-Plant System Resulting from Metals Released from Coal Mine Waste in Svalbard (78° N). <i>Water, Air, and Soil Pollution</i> , 2008, 195, 99-114.	1.1	32
107	Role of six European tree species and land-use legacy for nitrogen and water budgets in forests. <i>Global Change Biology</i> , 2010, 16, 2224-2240.	4.2	32
108	Temporal and spatial trends in soil organic carbon stocks following maize cultivation in semi-arid Tanzania, East Africa. <i>Nutrient Cycling in Agroecosystems</i> , 2007, 79, 291-302.	1.1	30

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109	Cold-season soil respiration in response to grazing and warming in High-Arctic Svalbard. <i>Polar Research</i> , 2010, 29, 46-57.	1.6	30
110	Ectomycorrhizal and saprotrophic fungi respond differently to long-term experimentally increased snow depth in the High Arctic. <i>MicrobiologyOpen</i> , 2016, 5, 856-869.	1.2	30
111	Continuous measurements of nitrous oxide isotopomers during incubation experiments. <i>Biogeosciences</i> , 2018, 15, 767-780.	1.3	30
112	Extreme Emission of N ₂ O from Tropical Wetland Soil (Pantanal, South America). <i>Frontiers in Microbiology</i> , 2012, 3, 433.	1.5	29
113	Correlations between substrate availability, dissolved CH ₄ , and CH ₄ emissions in an arctic wetland subject to warming and plant removal. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 645-660.	1.3	29
114	A phenology-based approach to the classification of Arctic tundra ecosystems in Greenland. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 146, 518-529.	4.9	29
115	Deepened winter snow significantly influences the availability and forms of nitrogen taken up by plants in High Arctic tundra. <i>Soil Biology and Biochemistry</i> , 2019, 135, 222-234.	4.2	29
116	Frozen cover actions limiting AMD from mine waste deposited on land in Arctic Canada. <i>Cold Regions Science and Technology</i> , 2001, 32, 133-142.	1.6	28
117	Greenland climate change: from the past to the future. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2012, 3, 427-449.	3.6	28
118	The Impact of Climate Change on an Archaeological Site in the Arctic. <i>Archaeometry</i> , 2017, 59, 1175-1189.	0.6	28
119	Holocene permafrost history and cryostratigraphy in the High-Arctic Adventdalen Valley, central Svalbard. <i>Boreas</i> , 2018, 47, 423-442.	1.2	26
120	Chemical characterization of microbial-dominated soil organic matter in the Garwood Valley, Antarctica. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6485-6498.	1.6	24
121	The Fate of the Submarine Ikaite Tufa Columns in Southwest Greenland Under Changing Climate Conditions. <i>Journal of Sedimentary Research</i> , 2011, 81, 553-561.	0.8	24
122	Subsurface CO ₂ Dynamics in Temperate Beech and Spruce Forest Stands. <i>Biogeochemistry</i> , 2005, 75, 479-506.	1.7	23
123	Cryostratigraphy, sedimentology, and the late Quaternary evolution of the Zackenberg River delta, northeast Greenland. <i>Cryosphere</i> , 2017, 11, 1265-1282.	1.5	23
124	Model-data fusion to assess year-round CO ₂ fluxes for an arctic heath ecosystem in West Greenland (69°N). <i>Agricultural and Forest Meteorology</i> , 2019, 272-273, 176-186.	1.9	23
125	Labiality classification of soil organic matter in the northern permafrost region. <i>Biogeosciences</i> , 2020, 17, 361-379.	1.3	23
126	High-Resolution Measurements of Water Discharge, Sediment, and Solute Transport in the River Zackenbergelven, Northeast Greenland. <i>Arctic, Antarctic, and Alpine Research</i> , 2000, 32, 336-345.	0.4	22

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127	Hydrology and Transport of Sediment and Solutes at Zackenberg. <i>Advances in Ecological Research</i> , 2008, , 197-221.	1.4	22
128	A comparison of soil organic carbon stock in ancient and modern land use systems in Denmark. <i>European Journal of Soil Science</i> , 2009, 60, 55-63.	1.8	22
129	Paleo-Eskimo kitchen midden preservation in permafrost under future climate conditions at Qajaa, West Greenland. <i>Journal of Archaeological Science</i> , 2011, 38, 1331-1339.	1.2	22
130	Density Effects on Soilâ€Water Characteristics, Soilâ€Gas Diffusivity, and Emissions of N ₂ O and N ₂ from a Reâ€packed Pasture Soil. <i>Soil Science Society of America Journal</i> , 2019, 83, 118-125.	1.2	22
131	Immediate and carryâ€over effects of insect outbreaks on vegetation growth in West Greenland assessed from cells to satellite. <i>Journal of Biogeography</i> , 2020, 47, 87-100.	1.4	22
132	The ABCflux database: Arcticâ€boreal CO ₂ flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. <i>Earth System Science Data</i> , 2022, 14, 179-208.	3.7	22
133	Soil solution pH measurements using in-line chambers with tension lysimeters. <i>Canadian Journal of Soil Science</i> , 2000, 80, 283-288.	0.5	21
134	An Optode Sensor Array for Long-Term In Situ Oxygen Measurements in Soil and Sediment. <i>Journal of Environmental Quality</i> , 2013, 42, 1267-1273.	1.0	21
135	Short and Longâ€Term Controls on Active Layer and Permafrost Carbon Turnover Across the Arctic. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 372-390.	1.3	21
136	Drivers of net methane uptake across Greenlandic dry heath tundra landscapes. <i>Soil Biology and Biochemistry</i> , 2019, 138, 107605.	4.2	21
137	Preservation Within Log Coffins Before and After Barrow Construction. <i>Journal of Archaeological Science</i> , 2003, 30, 343-350.	1.2	20
138	Greenlandic sheep farming controlled by vegetation response today and at the end of the 21st Century. <i>Science of the Total Environment</i> , 2015, 512-513, 672-681.	3.9	20
139	Climate change and the loss of organic archaeological deposits in the Arctic. <i>Scientific Reports</i> , 2016, 6, 28690.	1.6	20
140	Sea-level proxies in Holocene raised beach ridge deposits (Greenland) revealed by ground-penetrating radar. <i>Scientific Reports</i> , 2017, 7, 46460.	1.6	20
141	Contrasting aboveâ€and belowground organic matter decomposition and carbon and nitrogen dynamics in response to warming in High Arctic tundra. <i>Global Change Biology</i> , 2018, 24, 2660-2672.	4.2	20
142	Spatial and Interâ€Annual Variability of Trace Gas Fluxes in a Heterogeneous Highâ€Arctic Landscape. <i>Advances in Ecological Research</i> , 2008, 40, 473-498.	1.4	19
143	High-Resolution Measurements of Water Discharge, Sediment, and Solute Transport in the River Zackenbergelven, Northeast Greenland. <i>Arctic, Antarctic, and Alpine Research</i> , 2000, 32, 336.	0.4	18
144	Accumulation of Soil Organic Carbon Linked to Holocene Sea Level Changes in West Greenland. <i>Arctic, Antarctic, and Alpine Research</i> , 2006, 38, 378-383.	0.4	18

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145	Modelling temperature-dependent heat production over decades in High Arctic coal waste rock piles. <i>Cold Regions Science and Technology</i> , 2011, 65, 258-268.	1.6	18
146	A scalable model for methane consumption in arctic mineral soils. <i>Geophysical Research Letters</i> , 2016, 43, 5143-5150.	1.5	18
147	Potential microbial contamination during sampling of permafrost soil assessed by tracers. <i>Scientific Reports</i> , 2017, 7, 43338.	1.6	18
148	Suspended sediment in a high-Arctic river: An appraisal of flux estimation methods. <i>Science of the Total Environment</i> , 2017, 580, 582-592.	3.9	18
149	Soil Gas Diffusivity and Soil Moisture effects on N ₂ O Emissions from Intact Pasture Soils. <i>Soil Science Society of America Journal</i> , 2019, 83, 1032-1043.	1.2	18
150	Arctic soil carbon turnover controlled by experimental snow addition, summer warming and shrub removal. <i>Soil Biology and Biochemistry</i> , 2020, 142, 107698.	4.2	18
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