Bo Elberling

List of Publications by Year
in descending order

223 papers	13,312 citations	23567 58 h-index	29157 104 g-index
253 all docs	253 docs citations	253 times ranked	14402 citing authors

#	Article	IF	Citations
1	The tundra phenology database: more than two decades of tundra phenology responses to climate change. Arctic Science, 2022, 8, 1026-1039.	2.3	7
2	Nitrogen transport in a tundra landscape: the effects of early and late growing season lateral N inputs on arctic soil and plant N pools and N2O fluxes. Biogeochemistry, 2022, 157, 69-84.	3.5	9
3	Fire increases soil nitrogen retention and alters nitrogen uptake patterns among dominant shrub species in an Arctic dry heath tundra. Science of the Total Environment, 2022, 807, 150990.	8.0	11
4	The ABCflux database: Arcticâ€“boreal CO₂ flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. Earth System Science Data, 2022, 14, 179-208.	9.9	22
5	Increased annual methane uptake driven by warmer winters in an alpine meadow. Global Change Biology, 2022, 28, 3246-3259.	9.5	11
6	Modelling impacts of lateral N flows and seasonal warming on an arctic footslope ecosystem N budget and N2O emissions based on species-level responses. Biogeochemistry, 2022, 158, 195-213.	3.5	4
7	Winters are changing: snow effects on Arctic and alpine tundra ecosystems. Arctic Science, 2022, 8, 572-608.	2.3	43
8	Influences of summer warming and nutrient availability on Salix glauca L. growth in Greenland along an ice to sea gradient. Scientific Reports, 2022, 12, 3077.	3.3	4
9	Reduced methane emissions in former permafrost soils driven by vegetation and microbial changes following drainage. Global Change Biology, 2022, 28, 3411-3425.	9.5	6
10	Warming and Increased Respiration Have Transformed an Alpine Steppe Ecosystem on the Tibetan Plateau From a Carbon Dioxide Sink Into a Source. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	5
11	Pyrogenic organic matter as a nitrogen source to microbes and plants following fire in an Arctic heath tundra. Soil Biology and Biochemistry, 2022, 170, 108699.	8.8	8
12	Effects of fire on <scp>CO₂</scp>, <scp>CH₄</scp>, and <scp>N₂O</scp> exchange in a wellâ€drained Arctic heath ecosystem. Global Change Biology, 2022, 28, 4882-4899.	9.5	10
13	Upslope releaseâ€”Downslope receipt? Multiâ€year plant uptake of permafrostâ€released nitrogen along an arctic hillslope. Journal of Ecology, 2022, 110, 1896-1912.	4.0	6
14	Arctic soil respiration and microbial community structure driven by silicon and calcium. Science of the Total Environment, 2022, 838, 156152.	8.0	5
15	Spatial heterogeneity and environmental predictors of permafrost region soil organic carbon stocks. Science Advances, 2021, 7, .	10.3	130
16	Statistical upscaling of ecosystem CO₂ fluxes across the terrestrial tundra and boreal domain: Regional patterns and uncertainties. Global Change Biology, 2021, 27, 4040-4059.	9.5	83
17	Deepened snow enhances gross nitrogen cycling among Pan-Arctic tundra soils during both winter and summer. Soil Biology and Biochemistry, 2021, 160, 108356.	8.8	17
18	Growing season leaf carbon:nitrogen dynamics in Arctic tundra vegetation from ground and Sentinel-2 observations reveal reallocation timing and upscaling potential. Remote Sensing of Environment, 2021, 262, 112512.	11.0	8

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19	Effects of experimental fire in combination with climate warming on greenhouse gas fluxes in Arctic tundra soils. Science of the Total Environment, 2021, 795, 148847.	8.0	8
20	Shallow soils are warmer under trees and tall shrubs across Arctic and Boreal ecosystems. Environmental Research Letters, 2021, 16, 015001.	5.2	39
21	Immediate and carryâ€over effects of insect outbreaks on vegetation growth in West Greenland assessed from cells to satellite. Journal of Biogeography, 2020, 47, 87-100.	3.0	22
22	Reply to the comment: Northern Hemisphere permafrost extent: Drylands, glaciers and sea floor. Earth-Science Reviews, 2020, 203, 103036.	9.1	1
23	Arctic soil carbon turnover controlled by experimental snow addition, summer warming and shrub removal. Soil Biology and Biochemistry, 2020, 142, 107698.	8.8	18
24	Combined effects of glacial retreat and penguin activity on soil greenhouse gas fluxes on South Georgia, sub-Antarctica. Science of the Total Environment, 2020, 718, 135255.	8.0	5
25	Arctic soil water chemistry in dry and wet tundra subject to snow addition, summer warming and herbivory simulation. Soil Biology and Biochemistry, 2020, 141, 107676.	8.8	16
26	Gasâ€Diffusivity based characterization of aggregated agricultural soils. Soil Science Society of America Journal, 2020, 84, 387-398.	2.2	11
27	Foraging deeply: Depthâ€specific plant nitrogen uptake in response to climateâ€induced Nâ€release and permafrost thaw in the High Arctic. Global Change Biology, 2020, 26, 6523-6536.	9.5	36
28	Nitrogen isotopes reveal high N retention in plants and soil of old Norse and Inuit deposits along a wet-dry arctic fjord transect in Greenland. Plant and Soil, 2020, 455, 241-255.	3.7	5
29	Divergence of Arctic shrub growth associated with sea ice decline. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33334-33344.	7.1	43
30	Reduced net methane emissions due to microbial methane oxidation in a warmer Arctic. Nature Climate Change, 2020, 10, 317-321.	18.8	70
31	Global plant trait relationships extend to the climatic extremes of the tundra biome. Nature Communications, 2020, 11, 1351.	12.8	52
32	Glacial Rock Flour as Soil Amendment in Subarctic Farming in South Greenland. Land, 2020, 9, 198.	2.9	3
33	Nitrous oxide emissions from permafrost-affected soils. Nature Reviews Earth & Environment, 2020, 1, 420-434.	29.7	90
34	Greenland Climates. , 2020, , 539-550.		0
35	Estimating meltwater retention and associated nitrate redistribution during snowmelt in an Arctic tundra landscape*. Environmental Research Letters, 2020, 15, 034025.	5.2	17
36	Lability classification of soil organic matter in the northern permafrost region. Biogeosciences, 2020, 17, 361-379.	3.3	23

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37	Soilâ€gas diffusivity and soilâ€moisture effects on N₂O emissions from repacked pasture soils. Soil Science Society of America Journal, 2020, 84, 371-386.	2.2	6
38	Arctic archaeological sites threatened by climate change: A regional multiâ€threat assessment of sites in southâ€west Greenland. Archaeometry, 2020, 62, 1280-1297.	1.3	17
39	Soil Carbon and Nitrogen Stocks and Turnover Following 16ÂYears of Warming and Litter Addition. Ecosystems, 2019, 22, 110-124.	3.4	13
40	Predicting the loss of organic archaeological deposits at a regional scale in Greenland. Scientific Reports, 2019, 9, 9097.	3.3	17
41	Lability of toxic elements in Submarine Tailings Disposal: The relationship between metal fractionation and metal uptake by sandworms (Alitta virens). Science of the Total Environment, 2019, 696, 133903.	8.0	3
42	Soilâ€Gas Diffusivity and Soilâ€Moisture effects on N 2 O Emissions from Intact Pasture Soils. Soil Science Society of America Journal, 2019, 83, 1032-1043.	2.2	18
43	Fast response of fungal and prokaryotic communities to climate change manipulation in two contrasting tundra soils. Environmental Microbiomes, 2019, 14, 6.	5.0	15
44	Deepened winter snow significantly influences the availability and forms of nitrogen taken up by plants in High Arctic tundra. Soil Biology and Biochemistry, 2019, 135, 222-234.	8.8	29
45	Model-data fusion to assess year-round CO2 fluxes for an arctic heath ecosystem in West Greenland (69Â°N). Agricultural and Forest Meteorology, 2019, 272-273, 176-186.	4.8	23
46	Northern Hemisphere permafrost map based on TTOP modelling for 2000â€“2016 at 1â€¯km2 scale. Earth-Science Reviews, 2019, 193, 299-316.	9.1	462
47	Density Effects on Soilâ€Water Characteristics, Soilâ€Gas Diffusivity, and Emissions of N₂O and N₂ from a Reâ€packed Pasture Soil. Soil Science Society of America Journal, 2019, 83, 118-125.	2.2	22
48	Silicon increases the phosphorus availability of Arctic soils. Scientific Reports, 2019, 9, 449.	3.3	115
49	Sea animal activity controls CO2, CH4 and N2O emission hotspots on South Georgia, sub-Antarctica. Soil Biology and Biochemistry, 2019, 132, 174-186.	8.8	3
50	Drivers of net methane uptake across Greenlandic dry heath tundra landscapes. Soil Biology and Biochemistry, 2019, 138, 107605.	8.8	21
51	Large loss of CO2 in winter observed across the northern permafrost region. Nature Climate Change, 2019, 9, 852-857.	18.8	225
52	Footprints from the past: The influence of past human activities on vegetation and soil across five archaeological sites in Greenland. Science of the Total Environment, 2019, 654, 895-905.	8.0	35
53	Effects of denitrification and transport on the isotopic composition of nitrate (Î´18O, Î´15N) in freshwater systems. Science of the Total Environment, 2019, 651, 2228-2234.	8.0	13
54	Warming shortens flowering seasons of tundra plant communities. Nature Ecology and Evolution, 2019, 3, 45-52.	7.8	79

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55	Temperature sensitivity of willow dwarf shrub growth from two distinct High Arctic sites. International Journal of Biometeorology, 2019, 63, 167-181.	3.0	13
56	Crowther et al. reply. Nature, 2018, 554, E7-E8.	27.8	14
57	In situ CH4 oxidation inhibition and 13CH4 labeling reveal methane oxidation and emission patterns in a subarctic heath ecosystem. Biogeochemistry, 2018, 138, 197-213.	3.5	4
58	Processâ€Oriented Modeling of a High Arctic Tundra Ecosystem: Longâ€Term Carbon Budget and Ecosystem Responses to Interannual Variations of Climate. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1178-1196.	3.0	12
59	Contrasting temperature trends across the ice-free part of Greenland. Scientific Reports, 2018, 8, 1586.	3.3	40
60	Short and Longâ€Term Controls on Active Layer and Permafrost Carbon Turnover Across the Arctic. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 372-390.	3.0	21
61	Contrasting aboveâ€and belowground organic matter decomposition and carbon and nitrogen dynamics in response to warming in High Arctic tundra. Global Change Biology, 2018, 24, 2660-2672.	9.5	20
62	Modelling present and future permafrost thermal regimes in Northeast Greenland. Cold Regions Science and Technology, 2018, 146, 199-213.	3.5	37
63	Geomorphological and cryostratigraphical analyses of the Zackenberg Valley, NE Greenland and significance of Holocene alluvial fans. Geomorphology, 2018, 303, 504-523.	2.6	40
64	Holocene permafrost history and cryostratigraphy in the Highâ€Arctic Adventdalen Valley, central Svalbard. Boreas, 2018, 47, 423-442.	2.4	26
65	Tundra Trait Team: A database of plant traits spanning the tundra biome. Global Ecology and Biogeography, 2018, 27, 1402-1411.	5.8	57
66	A phenology-based approach to the classification of Arctic tundra ecosystems in Greenland. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 518-529.	11.1	29
67	Plant functional trait change across a warming tundra biome. Nature, 2018, 562, 57-62.	27.8	451
68	Fast Responses of Root Dynamics to Increased Snow Deposition and Summer Air Temperature in an Arctic Wetland. Frontiers in Plant Science, 2018, 9, 1258.	3.6	13
69	Continuous measurements of nitrous oxide isotopomers during incubation experiments. Biogeosciences, 2018, 15, 767-780.	3.3	30
70	Disentangling the complexity of permafrost soil by using high resolution profiling of microbial community composition, key functions and respiration rates. Environmental Microbiology, 2018, 20, 4328-4342.	3.8	37
71	Biogenic volatile release from permafrost thaw is determined by the soil microbial sink. Nature Communications, 2018, 9, 3412.	12.8	39
72	Development of plateau dunes controlled by iron pan formation and changes in land use and climate. Catena, 2018, 171, 580-587.	5.0	3

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73	Applying Chemometrics to Determine Dispersion of Mine Tailing-Affected Sediments from Submarine Tailing Disposal in BÃ¸kfjorden, Northern Norway. Water, Air, and Soil Pollution, 2018, 229, 1.	2.4	2
74	Enhanced summer warming reduces fungal decomposer diversity and litter mass loss more strongly in dry than in wet tundra. Global Change Biology, 2017, 23, 406-420.	9.5	71
75	Correlations between substrate availability, dissolved CH₄, and CH₄ emissions in an arctic wetland subject to warming and plant removal. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 645-660.	3.0	29
76	Greater temperature sensitivity of plant phenology at colder sites: implications for convergence across northern latitudes. Global Change Biology, 2017, 23, 2660-2671.	9.5	171
77	Vegetation phenology gradients along the west and east coasts of Greenland from 2001 to 2015. Ambio, 2017, 46, 94-105.	5.5	14
78	Sea-level proxies in Holocene raised beach ridge deposits (Greenland) revealed by ground-penetrating radar. Scientific Reports, 2017, 7, 46460.	3.3	20
79	High Arctic summer warming tracked by increased Cassiope tetragona growth in the world's northernmost polar desert. Global Change Biology, 2017, 23, 5006-5020.	9.5	38
80	Arctic Soil Microbial Sensitivity to Seasonal Dynamics and Climate Change. , 2017, , 275-307.		2
81	Potential microbial contamination during sampling of permafrost soil assessed by tracers. Scientific Reports, 2017, 7, 43338.	3.3	18
82	Suspended sediment in a high-Arctic river: An appraisal of flux estimation methods. Science of the Total Environment, 2017, 580, 582-592.	8.0	18
83	Delta progradation in Greenland driven by increasing glacial mass loss. Nature, 2017, 550, 101-104.	27.8	74
84	The fate of 13C15N labelled glycine in permafrost and surface soil at simulated thaw in mesocosms from high arctic and subarctic ecosystems. Plant and Soil, 2017, 419, 201-218.	3.7	15
85	The Impact of Climate Change on an Archaeological Site in the Arctic. Archaeometry, 2017, 59, 1175-1189.	1.3	28
86	Seasonal variations in methane fluxes in response to summer warming and leaf litter addition in a subarctic heath ecosystem. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2137-2153.	3.0	17
87	Linking rhizospheric CH4 oxidation and net CH4 emissions in an arctic wetland based on 13CH4 labeling of mesocosms. Plant and Soil, 2017, 412, 201-213.	3.7	13
88	Methane oxidation in contrasting soil types: responses to experimental warming with implication for landscapeâ€integrated CH₄ budget. Global Change Biology, 2017, 23, 966-976.	9.5	57
89	Carbon stocks and fluxes in the high latitudes: using site-level data to evaluate Earth system models. Biogeosciences, 2017, 14, 5143-5169.	3.3	43
90	Cryostratigraphy, sedimentology, and the late Quaternary evolution of the Zackenberg River delta, northeast Greenland. Cryosphere, 2017, 11, 1265-1282.	3.9	23

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91	Upstream Freshwater and Terrestrial Sources Are Differentially Reflected in the Bacterial Community Structure along a Small Arctic River and Its Estuary. Frontiers in Microbiology, 2016, 7, 1474.	3.5	38
92	A scalable model for methane consumption in arctic mineral soils. Geophysical Research Letters, 2016, 43, 5143-5150.	4.0	18
93	Quantifying global soil carbon losses in response to warming. Nature, 2016, 540, 104-108.	27.8	879
94	Ectomycorrhizal and saprotrophic fungi respond differently to longâ€term experimentally increased snow depth in the High Arctic. MicrobiologyOpen, 2016, 5, 856-869.	3.0	30
95	Longâ€term experimentally deepened snow decreases growingâ€season respiration in a lowâ€and highâ€arctic tundra ecosystem. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1236-1248.	3.0	34
96	Flocculated meltwater particles control Arctic land-sea fluxes of labile iron. Scientific Reports, 2016, 6, 24033.	3.3	43
97	Climate change and the loss of organic archaeological deposits in the Arctic. Scientific Reports, 2016, 6, 28690.	3.3	20
98	High Arctic plant phenology is determined by snowmelt patterns but duration of phenological periods is fixed: an example of periodicity. Environmental Research Letters, 2016, 11, 125006.	5.2	66
99	Effect of electrode shape on grounding resistances â€" Part 2: Experimental results and cryospheric monitoring. Geophysics, 2016, 81, WA169-WA182.	2.6	13
100	Initial Stages of Tundra Shrub Litter Decomposition May Be Accelerated by Deeper Winter Snow But Slowed Down by Spring Warming. Ecosystems, 2016, 19, 155-169.	3.4	63
101	Thermokarst dynamics and soil organic matter characteristics controlling initial carbon release from permafrost soils in the Siberian Yedoma region. Sedimentary Geology, 2016, 340, 38-48.	2.1	52
102	Deepened winter snow increases stem growth and alters stem Î´ ¹³ C and Î´ ¹⁵ N in evergreen dwarf shrub Cassiope tetragona in high-arctic Svalbard tundra. Environmental Research Letters, 2015, 10, 044008.	5.2	39
103	Distinct summer and winter bacterial communities in the active layer of Svalbard permafrost revealed by DNA- and RNA-based analyses. Frontiers in Microbiology, 2015, 6, 399.	3.5	94
104	Characterization of diffusivityâ€based oxygen transport in Arctic organic soil. European Journal of Soil Science, 2015, 66, 983-991.	3.9	8
105	Net regional methane sink in High Arctic soils of northeast Greenland. Nature Geoscience, 2015, 8, 20-23.	12.9	93
106	Mercury exports from a High-Arctic river basin in Northeast Greenland (74Â°N) largely controlled by glacial lake outburst floods. Science of the Total Environment, 2015, 514, 83-91.	8.0	39
107	Greenlandic sheep farming controlled by vegetation response today and at the end of the 21st Century. Science of the Total Environment, 2015, 512-513, 672-681.	8.0	20
108	Methane fluxes and the functional groups of methanotrophs and methanogens in a young Arctic landscape on Disko Island, West Greenland. Biogeochemistry, 2015, 122, 15-33.	3.5	48

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109	Deeper snow alters soil nutrient availability and leaf nutrient status in high Arctic tundra. Biogeochemistry, 2015, 124, 81-94.	3.5	90
110	Nitrate-Controlled Anaerobic Oxidation of Pyrite byThiobacillusCultures. Geomicrobiology Journal, 2015, 32, 412-419.	2.0	33
111	Direct current (DC) resistivity and induced polarization (IP) monitoring of active layer dynamics at high temporal resolution. Cold Regions Science and Technology, 2015, 119, 16-28.	3.5	45
112	Future permafrost conditions along environmental gradients in Zackenberg, Greenland. Cryosphere, 2015, 9, 719-735.	3.9	51
113	Storage, Landscape Distribution, and Burial History of Soil Organic Matter in Contrasting Areas of Continuous Permafrost. Arctic, Antarctic, and Alpine Research, 2015, 47, 71-88.	1.1	71
114	Permafrost thawing in organic Arctic soils accelerated by ground heat production. Nature Climate Change, 2015, 5, 574-578.	18.8	42
115	Winter warming as an important coâ€driver for BetulaÂnana growth in western Greenland during the past century. Global Change Biology, 2015, 21, 2410-2423.	9.5	104
116	The sustainability of cassava-based bioethanol production in southern Mali. Geografisk Tidsskrift, 2015, 115, 14-26.	0.6	2
117	Organic Carbon Dynamics in Different Soil Types After Conversion of Forest to Agriculture. Land Degradation and Development, 2015, 26, 272-283.	3.9	166
118	Permafrost collapse after shrub removal shifts tundra ecosystem to a methane source. Nature Climate Change, 2015, 5, 67-70.	18.8	147
119	Estimated stocks of circumpolar permafrost carbon with quantified uncertainty ranges and identified data gaps. Biogeosciences, 2014, 11, 6573-6593.	3.3	1,079
120	Comments on â€œAbiotic processes dominate CO2 fluxes in Antarctic soilsâ€•by Shanhun etÂal. Soil Biology & Biochemistry 53, 99â€“111 (2012). Soil Biology and Biochemistry, 2014, 75, 310-311.	8.8	2
121	Flooding-induced N2O emission bursts controlled by pH and nitrate in agricultural soils. Soil Biology and Biochemistry, 2014, 69, 17-24.	8.8	52
122	Circumpolar assessment of permafrost C quality and its vulnerability over time using longâ€term incubation data. Global Change Biology, 2014, 20, 641-652.	9.5	231
123	The Importance of Microbial Iron Sulfide Oxidation for Nitrate Depletion in Anoxic Danish Sediments. Aquatic Geochemistry, 2014, 20, 419-435.	1.3	43
124	Degradation of Archaeological Wood Under Freezing and Thawing Conditionsâ€”Effects of Permafrost and Climate Change. Archaeometry, 2014, 56, 479-495.	1.3	33
125	Long-term CO2 production following permafrost thaw. Nature Climate Change, 2013, 3, 890-894.	18.8	186
126	Carbon sequestration in iron-nodules in moist semi-deciduous tropical forest soil. Geoderma, 2013, 200-201, 202-207.	5.1	5

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127	Microbial responses to carbon and nitrogen supplementation in an Antarctic dry valley soil. Antarctic Science, 2013, 25, 55-61.	0.9	11
128	Snow cover and extreme winter warming events control flower abundance of some, but not all species in high arctic <scp>S</scp>valbard. Ecology and Evolution, 2013, 3, 2586-2599.	1.9	65
129	An Optode Sensor Array for Long-Term In Situ Oxygen Measurements in Soil and Sediment. Journal of Environmental Quality, 2013, 42, 1267-1273.	2.0	21
130	A new data set for estimating organic carbon storage to 3 m depth in soils of the northern circumpolar permafrost region. Earth System Science Data, 2013, 5, 393-402.	9.9	148
131	The Future Preservation of a Permanently Frozen Kitchen Midden in Western Greenland. Conservation and Management of Archaeological Sites, 2012, 14, 159-168.	0.5	9
132	Changes in shifting cultivation systems on small Pacific islands. Geographical Journal, 2012, 178, 175-187.	3.1	15
133	Soil respiration and rates of soil carbon turnover differ among six common European tree species. Forest Ecology and Management, 2012, 264, 185-196.	3.2	219
134	Composition of characteristic soils on the raised atoll Bellona, Solomon Islands. Geoderma, 2012, 170, 186-194.	5.1	4
135	Greenland climate change: from the past to the future. Wiley Interdisciplinary Reviews: Climate Change, 2012, 3, 427-449.	8.1	28
136	Temporal trends in <scp><scp>N₂O</scp></scp> flux dynamics in a Danish wetland â€“ effects of plantâ€mediated gas transport of <scp><scp>N₂O</scp></scp> and <scp><scp>O₂</scp></scp> following changes in water level and soil mineralâ€<scp><scp>N</scp></scp> availability. Global Change Biology, 2012, 18, 210-222.	9.5	100
137	Effects of flooding-induced N2O production, consumption and emission dynamics on the annual N2O emission budget in wetland soil. Soil Biology and Biochemistry, 2012, 53, 9-17.	8.8	37
138	Extreme Emission of N2O from Tropical Wetland Soil (Pantanal, South America). Frontiers in Microbiology, 2012, 3, 433.	3.5	29
139	Linking Soil O₂, CO₂, and CH₄ Concentrations in a Wetland Soil: Implications for CO₂ and CH₄ Fluxes. Environmental Science & Technology, 2011, 45, 3393-3399.	10.0	103
140	The Fate of the Submarine Ikaite Tufa Columns in Southwest Greenland Under Changing Climate Conditions. Journal of Sedimentary Research, 2011, 81, 553-561.	1.6	24
141	Modelling temperature-dependent heat production over decades in High Arctic coal waste rock piles. Cold Regions Science and Technology, 2011, 65, 258-268.	3.5	18
142	Paleo-Eskimo kitchen midden preservation in permafrost under future climate conditions at Qajaa, West Greenland. Journal of Archaeological Science, 2011, 38, 1331-1339.	2.4	22
143	Resource Limitations on Soil Microbial Activity in an Antarctic Dry Valley. Soil Science Society of America Journal, 2011, 75, 2188-2197.	2.2	12
144	Future active layer dynamics and carbon dioxide production from thawing permafrost layers in Northeast Greenland. Global Change Biology, 2011, 17, 911-926.	9.5	80

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145	Plant-mediated CH4 transport and C gas dynamics quantified in-situ in a Phalaris arundinacea-dominant wetland. Plant and Soil, 2011, 343, 287-301.	3.7	35
146	Carbon Cycling in Floodplain Ecosystems: Out-Gassing and Photosynthesis Transmit Soil Î´13C Gradient Through Stream Food Webs. Ecosystems, 2011, 14, 583-597.	3.4	16
147	Role of six European tree species and landâ€use legacy for nitrogen and water budgets in forests. Global Change Biology, 2010, 16, 2224-2240.	9.5	32
148	Soil development rates from an optically stimulated luminescence-dated beach ridge sequence in Northern Jutland, Denmark. Canadian Journal of Soil Science, 2010, 90, 295-307.	1.2	7
149	Lability of soil organic carbon in tropical soils with different clay minerals. Soil Biology and Biochemistry, 2010, 42, 888-895.	8.8	120
150	Soil heterogeneity effects on O2 distribution and CH4 emissions from wetlands: In situ and mesocosm studies with planar O2 optodes and membrane inlet mass spectrometry. Soil Biology and Biochemistry, 2010, 42, 2254-2265.	8.8	52
151	Pb isotopes as tracers of mining-related Pb in lichens, seaweed and mussels near a former Pb-Zn mine in West Greenland. Environmental Pollution, 2010, 158, 1319-1326.	7.5	35
152	Heavy metals in 3300â€yearâ€old agricultural soils used to assess present soil contamination. European Journal of Soil Science, 2010, 61, 74-83.	3.9	11
153	High nitrous oxide production from thawing permafrost. Nature Geoscience, 2010, 3, 332-335.	12.9	141
154	A comparison of annual and seasonal carbon dioxide effluxes between sub-Arctic Sweden and High-Arctic Svalbard. Polar Research, 2010, 29, 75-84.	1.6	34
155	The importance of winter in annual ecosystem respiration in the High Arctic: effects of snow depth in two vegetation types. Polar Research, 2010, 29, 58-74.	1.6	98
156	Cold-season soil respiration in response to grazing and warming in High-Arctic Svalbard. Polar Research, 2010, 29, 46-57.	1.6	30
157	An indigenous soil classification system for Bellona Island â€“ a raised atoll in Solomon Islands. Singapore Journal of Tropical Geography, 2010, 31, 85-99.	0.9	13
158	Winter carbon dioxide effluxes from Arctic ecosystems: An overview and comparison of methodologies. Global Biogeochemical Cycles, 2010, 24, .	4.9	51
159	Chemical characterization of microbial-dominated soil organic matter in the Garwood Valley, Antarctica. Geochimica Et Cosmochimica Acta, 2010, 74, 6485-6498.	3.9	24
160	Aluminium release from acidic forest soil following deforestation and maize cultivation in Ghana, West Africa. West African Journal of Applied Ecology, 2009, 8, .	0.1	0
161	A comparison of soil organic carbon stock in ancient and modern land use systems in Denmark. European Journal of Soil Science, 2009, 60, 55-63.	3.9	22
162	Isotopic evidence for the provenance and turnover of organic carbon by soil microorganisms in the Antarctic dry valleys. Environmental Microbiology, 2009, 11, 597-608.	3.8	61

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163	Modelling subsurface temperatures in a heat producing coal waste rock pile, Svalbard (78Â°N). Cold Regions Science and Technology, 2009, 58, 68-76.	3.5	14
164	Microbial Oxidation of Pyrite Coupled to Nitrate Reduction in Anoxic Groundwater Sediment. Environmental Science & Technology, 2009, 43, 4851-4857.	10.0	208
165	Ecological Dynamics Across the Arctic Associated with Recent Climate Change. Science, 2009, 325, 1355-1358.	12.6	1,043
166	Environmental Impact on an Arctic Soilâ€"Plant System Resulting from Metals Released from Coal Mine Waste in Svalbard (78Â° N). Water, Air, and Soil Pollution, 2008, 195, 99-114.	2.4	32
167	Enzymatic activities and microbial communities in an Antarctic dry valley soil: Responses to C and N supplementation. Soil Biology and Biochemistry, 2008, 40, 2130-2136.	8.8	67
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