Bo Elberling

List of Publications by Year in Descending Order

219 papers	9,635 citations	49 h-index	89 g-index
253 ext. papers	11,602 ext. citations	7.1 avg, IF	6.16 L-index

#	Paper	IF	Citations
219	The ABCflux database: Arctic-Boreal CO₂ flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. *Earth System Science Data*, **2022**, 14, 179-208	10.5	3
218	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	3.8	0
217	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	4.9	1
216	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,	3.7	2
215	Pyrogenic organic matter as a nitrogen source to microbes and plants following fire in an Arctic heath tundra. *Soil Biology and Biochemistry*, **2022**, 108699	7.5	0
214	Arctic soil respiration and microbial community structure driven by silicon and calcium. *Science of the Total Environment*, **2022**, 838, 156152	10.2	0
213	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*, **2021**, 807, 150990	10.2	2
212	Shallow soils are warmer under trees and tall shrubs across Arctic and Boreal ecosystems. *Environmental Research Letters*, **2021**, 16, 015001	6.2	12
211	Statistical upscaling of ecosystem CO fluxes across the terrestrial tundra and boreal domain: Regional patterns and uncertainties. *Global Change Biology*, **2021**, 27, 4040-4059	11.4	25
210	Spatial heterogeneity and environmental predictors of permafrost region soil organic carbon stocks. *Science Advances*, **2021**, 7,	14.3	34
209	Deepened snow enhances gross nitrogen cycling among Pan-Arctic tundra soils during both winter and summer. *Soil Biology and Biochemistry*, **2021**, 160, 108356	7.5	2
208	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	13.2	3
207	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	10.2	2
206	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	11.5	17
205	Reduced net methane emissions due to microbial methane oxidation in a warmer Arctic. *Nature Climate Change*, **2020**, 10, 317-321	21.4	34
204	Global plant trait relationships extend to the climatic extremes of the tundra biome. *Nature Communications*, **2020**, 11, 1351	17.4	19
203	Glacial Rock Flour as Soil Amendment in Subarctic Farming in South Greenland. *Land*, **2020**, 9, 198	3.5	1

202	Nitrous oxide emissions from permafrost-affected soils. *Nature Reviews Earth & Environment*, **2020**, 1, 420-434	30.2	34
201	Greenland Climates **2020**, 539-550		
200	Estimating meltwater retention and associated nitrate redistribution during snowmelt in an Arctic tundra landscape. *Environmental Research Letters*, **2020**, 15, 034025	6.2	8
199	Lability classification of soil organic matter in the northern permafrost region. *Biogeosciences*, **2020** , 17, 361-379	4.6	15
198	Arctic archaeological sites threatened by climate change: A regional multi-threat assessment of sites in south-west Greenland. *Archaeometry*, **2020**, 62, 1280-1297	1.6	7
197	Reply to the comment: Northern Hemisphere permafrost extent: Drylands, glaciers and sea floor. *Earth-Science Reviews*, **2020**, 203, 103036	10.2	1
196	Arctic soil carbon turnover controlled by experimental snow addition, summer warming and shrub removal. *Soil Biology and Biochemistry*, **2020**, 142, 107698	7.5	6
195	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	10.2	3
194	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	7.5	7
193	Gas-Diffusivity based characterization of aggregated agricultural soils. *Soil Science Society of America Journal*, **2020**, 84, 387-398	2.5	3
192	Foraging deeply: Depth-specific plant nitrogen uptake in response to climate-induced N-release and permafrost thaw in the High Arctic. *Global Change Biology*, **2020**, 26, 6523-6536	11.4	13
191	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	4.2	3
190	Immediate and carry-over effects of insect outbreaks on vegetation growth in West Greenland assessed from cells to satellite. *Journal of Biogeography*, **2020**, 47, 87-100	4.1	12
189	Soil-gas diffusivity and soil-moisture effects on N2O emissions from repacked pasture soils. *Soil Science Society of America Journal*, **2020**, 84, 371-386	2.5	5
188	Soil-Gas Diffusivity and Soil-Moisture effects on N2O Emissions from Intact Pasture Soils. *Soil Science Society of America Journal*, **2019**, 83, 1032-1043	2.5	14
187	Fast response of fungal and prokaryotic communities to climate change manipulation in two contrasting tundra soils. *Environmental Microbiomes*, **2019**, 14, 6	5.6	6
186	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	7.5	17
185	Model-data fusion to assess year-round CO2 fluxes for an arctic heath ecosystem in West Greenland (69°N). *Agricultural and Forest Meteorology*, **2019**, 272-273, 176-186	5.8	10

184	Northern Hemisphere permafrost map based on TTOP modelling for 2000–2016 at 1 km2 scale. *Earth-Science Reviews*, **2019**, 193, 299-316	10.2	203
183	Density Effects on Soil-Water Characteristics, Soil-Gas Diffusivity, and Emissions of N2O and N2 from a Re-packed Pasture Soil. *Soil Science Society of America Journal*, **2019**, 83, 118-125	2.5	11
182	Silicon increases the phosphorus availability of Arctic soils. *Scientific Reports*, **2019**, 9, 449	4.9	65
181	Soil Carbon and Nitrogen Stocks and Turnover Following 16 Years of Warming and Litter Addition. *Ecosystems*, **2019**, 22, 110-124	3.9	6
180	Predicting the loss of organic archaeological deposits at a regional scale in Greenland. *Scientific Reports*, **2019**, 9, 9097	4.9	13
179	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	10.2	2
178	Sea animal activity controls CO2, CH4 and N2O emission hotspots on South Georgia, sub-Antarctica. *Soil Biology and Biochemistry*, **2019**, 132, 174-186	7.5	3
177	Drivers of net methane uptake across Greenlandic dry heath tundra landscapes. *Soil Biology and Biochemistry*, **2019**, 138, 107605	7.5	10
176	Large loss of CO in winter observed across the northern permafrost region.. *Nature Climate Change*, **2019**, 9, 852-857	21.4	112
175	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	10.2	26
174	Effects of denitrification and transport on the isotopic composition of nitrate (□, ℕ) in freshwater systems. *Science of the Total Environment*, **2019**, 651, 2228-2234	10.2	8
173	Warming shortens flowering seasons of tundra plant communities. *Nature Ecology and Evolution*, **2019**, 3, 45-52	12.3	42
172	Temperature sensitivity of willow dwarf shrub growth from two distinct High Arctic sites. *International Journal of Biometeorology*, **2019**, 63, 167-181	3.7	8
171	Crowther et al. reply. *Nature*, **2018**, 554, E7-E8	50.4	11
170	In situ CH4 oxidation inhibition and 13CH4 labeling reveal methane oxidation and emission patterns in a subarctic heath ecosystem. *Biogeochemistry*, **2018**, 138, 197-213	3.8	4
169	Process-Oriented Modeling of a High Arctic Tundra Ecosystem: Long-Term Carbon Budget and Ecosystem Responses to Interannual Variations of Climate. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 1178-1196	3.7	10
168	Contrasting temperature trends across the ice-free part of Greenland. *Scientific Reports*, **2018**, 8, 1586	4.9	23
167	Short and Long-Term Controls on Active Layer and Permafrost Carbon Turnover Across the Arctic. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 372-390	3.7	14

166	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	5.2	23
165	Biogenic volatile release from permafrost thaw is determined by the soil microbial sink. *Nature Communications*, **2018**, 9, 3412	17.4	24
164	Development of plateau dunes controlled by iron pan formation and changes in land use and climate. *Catena*, **2018**, 171, 580-587	5.8	2
163	Applying Chemometrics to Determine Dispersion of Mine Tailing-Affected Sediments from Submarine Tailing Disposal in B□fjorden, Northern Norway. *Water, Air, and Soil Pollution*, **2018**, 229, 1	2.6	1
162	Contrasting above- 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	11.4	15
161	Modelling present and future permafrost thermal regimes in Northeast Greenland. *Cold Regions Science and Technology*, **2018**, 146, 199-213	3.8	16
160	Geomorphological and cryostratigraphical analyses of the Zackenberg Valley, NE Greenland and significance of Holocene alluvial fans. *Geomorphology*, **2018**, 303, 504-523	4.3	28
159	Holocene permafrost history and cryostratigraphy in the High-Arctic Adventdalen Valley, central Svalbard. *Boreas*, **2018**, 47, 423-442	2.4	15
158	Tundra Trait Team: A database of plant traits spanning the tundra biome. *Global Ecology and Biogeography*, **2018**, 27, 1402-1411	6.1	27
157	A phenology-based approach to the classification of Arctic tundra ecosystems in Greenland. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2018**, 146, 518-529	11.8	21
156	Plant functional trait change across a warming tundra biome. *Nature*, **2018**, 562, 57-62	50.4	264
155	Fast Responses of Root Dynamics to Increased Snow Deposition and Summer Air Temperature in an Arctic Wetland. *Frontiers in Plant Science*, **2018**, 9, 1258	6.2	6
154	Continuous measurements of nitrous oxide isotopomers during incubation experiments. *Biogeosciences*, **2018**, 15, 767-780	4.6	11
153	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	11.4	53
152	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	3.7	17
151	Greater temperature sensitivity of plant phenology at colder sites: implications for convergence across northern latitudes. *Global Change Biology*, **2017**, 23, 2660-2671	11.4	103
150	Vegetation phenology gradients along the west and east coasts of Greenland from 2001 to 2015. *Ambio*, **2017**, 46, 94-105	6.5	12
149	Sea-level proxies in Holocene raised beach ridge deposits (Greenland) revealed by ground-penetrating radar. *Scientific Reports*, **2017**, 7, 46460	4.9	13

148	High Arctic summer warming tracked by increased Cassiope tetragona growth in the world's northernmost polar desert. *Global Change Biology*, **2017**, 23, 5006-5020	11.4	29
147	Arctic Soil Microbial Sensitivity to Seasonal Dynamics and Climate Change **2017**, 275-307		2
146	Potential microbial contamination during sampling of permafrost soil assessed by tracers. *Scientific Reports*, **2017**, 7, 43338	4.9	14
145	Suspended sediment in a high-Arctic river: An appraisal of flux estimation methods. *Science of the Total Environment*, **2017**, 580, 582-592	10.2	14
144	Delta progradation in Greenland driven by increasing glacial mass loss. *Nature*, **2017**, 550, 101-104	50.4	44
143	Carbon stocks and fluxes in the high latitudes: using site-level data to evaluate Earth system models. *Biogeosciences*, **2017**, 14, 5143-5169	4.6	30
142	Cryostratigraphy, sedimentology, and the late Quaternary evolution of the Zackenberg River delta, northeast Greenland. *Cryosphere*, **2017**, 11, 1265-1282	5.5	19
141	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	4.2	10
140	The Impact of Climate Change on an Archaeological Site in the Arctic. *Archaeometry*, **2017**, 59, 1175-1189	1.6	17
139	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	3.7	15
138	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	4.2	12
137	Methane oxidation in contrasting soil types: responses to experimental warming with implication for landscape-integrated CH budget. *Global Change Biology*, **2017**, 23, 966-976	11.4	30
136	Long-term experimentally deepened snow decreases growing-season respiration in a low- and high-arctic tundra ecosystem. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 1236-1248	3.7	22
135	Flocculated meltwater particles control Arctic land-sea fluxes of labile iron. *Scientific Reports*, **2016**, 6, 24033	4.9	37
134	Climate change and the loss of organic archaeological deposits in the Arctic. *Scientific Reports*, **2016** , 6, 28690	4.9	16
133	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	6.2	43
132	Effect of electrode shape on grounding resistances Part 2: Experimental results and cryospheric monitoring. *Geophysics*, **2016**, 81, WA169-WA182	3.1	6
131	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	3.9	43

130	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	2.8	43
129	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	5.7	24
128	A scalable model for methane consumption in arctic mineral soils. *Geophysical Research Letters*, **2016**, 43, 5143-5150	4.9	14
127	Quantifying global soil carbon losses in response to warming. *Nature*, **2016**, 540, 104-108	50.4	560
126	Ectomycorrhizal and saprotrophic fungi respond differently to long-term experimentally increased snow depth in the High Arctic. *MicrobiologyOpen*, **2016**, 5, 856-869	3.4	21
125	Deeper snow alters soil nutrient availability and leaf nutrient status in high Arctic tundra. *Biogeochemistry*, **2015**, 124, 81-94	3.8	67
124	Nitrate-Controlled Anaerobic Oxidation of Pyrite by Thiobacillus Cultures. *Geomicrobiology Journal*, **2015**, 32, 412-419	2.5	24
123	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	3.8	33
122	Future permafrost conditions along environmental gradients in Zackenberg, Greenland. *Cryosphere*, **2015**, 9, 719-735	5.5	35
121	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	1.8	49
120	Permafrost thawing in organic Arctic soils accelerated by ground heat production. *Nature Climate Change*, **2015**, 5, 574-578	21.4	38
119	Winter warming as an important co-driver for Betula□hana growth in western Greenland during the past century. *Global Change Biology*, **2015**, 21, 2410-23	11.4	81
118	The sustainability of cassava-based bioethanol production in southern Mali. *Geografisk Tidsskrift*, **2015**, 115, 14-26	1.5	1
117	Organic Carbon Dynamics in Different Soil Types After Conversion of Forest to Agriculture. *Land Degradation and Development*, **2015**, 26, 272-283	4.4	132
116	Permafrost collapse after shrub removal shifts tundra ecosystem to a methane source. *Nature Climate Change*, **2015**, 5, 67-70	21.4	120
115	Deepened winter snow increases stem growth and alters stem □13 C and □15 N in evergreen dwarf shrub Cassiope tetragona in high-arctic Svalbard tundra. *Environmental Research Letters*, **2015**, 10, 044008	6.2	35
114	Methods to Assess High-Resolution Subsurface Gas Concentrations and Gas Fluxes in Wetland Ecosystems. *Soil Science Society of America Book Series*, **2015**, 949-970		1
113	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	5.7	57

112	Characterization of diffusivity-based oxygen transport in Arctic organic soil. *European Journal of Soil Science*, **2015**, 66, 983-991	3.4	5
111	Net regional methane sink in High Arctic soils of northeast Greenland. *Nature Geoscience*, **2015**, 8, 20-23	18.3	71
110	Mercury exports from a High-Arctic river basin in Northeast Greenland (74°N) largely controlled by glacial lake outburst floods. *Science of the Total Environment*, **2015**, 514, 83-91	10.2	32
109	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	10.2	14
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	3.8	37
107	Circumpolar assessment of permafrost C quality and its vulnerability over time using long-term incubation data. *Global Change Biology*, **2014**, 20, 641-52	11.4	186
106	The Importance of Microbial Iron Sulfide Oxidation for Nitrate Depletion in Anoxic Danish Sediments. *Aquatic Geochemistry*, **2014**, 20, 419-435	1.7	35
105	Degradation of Archaeological Wood Under Freezing and Thawing Conditions—Effects of Permafrost and Climate Change. *Archaeometry*, **2014**, 56, 479-495	1.6	28
104	Estimated stocks of circumpolar permafrost carbon with quantified uncertainty ranges and identified data gaps. *Biogeosciences*, **2014**, 11, 6573-6593	4.6	806
103	Comments on "Abiotic processes dominate CO2 fluxes in Antarctic soils" by Shanhun et al. Soil Biology & Biochemistry 53, 99–111 (2012). *Soil Biology and Biochemistry*, **2014**, 75, 310-311	7.5	1
102	Flooding-induced N2O emission bursts controlled by pH and nitrate in agricultural soils. *Soil Biology and Biochemistry*, **2014**, 69, 17-24	7.5	37
101	Long-term CO2 production following permafrost thaw. *Nature Climate Change*, **2013**, 3, 890-894	21.4	154
100	Carbon sequestration in iron-nodules in moist semi-deciduous tropical forest soil. *Geoderma*, **2013**, 200-201, 202-207	6.7	5
99	Microbial responses to carbon and nitrogen supplementation in an Antarctic dry valley soil. *Antarctic Science*, **2013**, 25, 55-61	1.7	11
98	Snow cover and extreme winter warming events control flower abundance of some, but not all species in high arctic Svalbard. *Ecology and Evolution*, **2013**, 3, 2586-99	2.8	49
97	An optode sensor array for long-term in situ oxygen measurements in soil and sediment. *Journal of Environmental Quality*, **2013**, 42, 1267-73	3.4	18
96	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	10.5	111
95	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	7.5	26

94	Changes in shifting cultivation systems on small Pacific islands. *Geographical Journal*, **2012**, 178, 175-187	2.2	12
93	Soil respiration and rates of soil carbon turnover differ among six common European tree species. *Forest Ecology and Management*, **2012**, 264, 185-196	3.9	173
92	Composition of characteristic soils on the raised atoll Bellona, Solomon Islands. *Geoderma*, **2012**, 170, 186-194	6.7	4
91	Greenland climate change: from the past to the future. *Wiley Interdisciplinary Reviews: Climate Change*, **2012**, 3, 427-449	8.4	22
90	Temporal trends in N2O flux dynamics in a Danish wetland □effects of plant-mediated gas transport of N2O and O2 following changes in water level and soil mineral-N availability. *Global Change Biology*, **2012**, 18, 210-222	11.4	83
89	Extreme emission of n(2)o from tropical wetland soil (pantanal, South america). *Frontiers in Microbiology*, **2012**, 3, 433	5.7	21
88	The Future Preservation of a Permanently Frozen Kitchen Midden in Western Greenland. *Conservation and Management of Archaeological Sites*, **2012**, 14, 159-168	0.5	8
87	The Fate of the Submarine Ikaite Tufa Columns in Southwest Greenland Under Changing Climate Conditions. *Journal of Sedimentary Research*, **2011**, 81, 553-561	2.1	22
86	Modelling temperature-dependent heat production over decades in High Arctic coal waste rock piles. *Cold Regions Science and Technology*, **2011**, 65, 258-268	3.8	18
85	Paleo-Eskimo kitchen midden preservation in permafrost under future climate conditions at Qajaa, West Greenland. *Journal of Archaeological Science*, **2011**, 38, 1331-1339	2.9	21
84	Resource Limitations on Soil Microbial Activity in an Antarctic Dry Valley. *Soil Science Society of America Journal*, **2011**, 75, 2188-2197	2.5	11
83	Future active layer dynamics and carbon dioxide production from thawing permafrost layers in Northeast Greenland. *Global Change Biology*, **2011**, 17, 911-926	11.4	65
82	Plant-mediated CH4 transport and C gas dynamics quantified in-situ in a Phalaris arundinacea-dominant wetland. *Plant and Soil*, **2011**, 343, 287-301	4.2	30
81	Carbon Cycling in Floodplain Ecosystems: Out-Gassing and Photosynthesis Transmit Soil □13C Gradient Through Stream Food Webs. *Ecosystems*, **2011**, 14, 583-597	3.9	14
80	Linking soil O2, CO2, and CH4 concentrations in a Wetland soil: implications for CO2 and CH4 fluxes. *Environmental Science & Technology*, **2011**, 45, 3393-9	10.3	83
79	Heavy metals in 3300-year-old agricultural soils used to assess present soil contamination. *European Journal of Soil Science*, **2010**, 61, 74-83	3.4	8
78	High nitrous oxide production from thawing permafrost. *Nature Geoscience*, **2010**, 3, 332-335	18.3	120
77	A comparison of annual and seasonal carbon dioxide effluxes between sub-Arctic Sweden and High-Arctic Svalbard. *Polar Research*, **2010**, 29, 75-84	2	30

76	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	2	83
75	Cold-season soil respiration in response to grazing and warming in High-Arctic Svalbard. *Polar Research*, **2010**, 29, 46-57	2	27
74	An indigenous soil classification system for Bellona Island a raised atoll in Solomon Islands. *Singapore Journal of Tropical Geography*, **2010**, 31, 85-99	1.5	12
73	Winter carbon dioxide effluxes from Arctic ecosystems: An overview and comparison of methodologies. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	43
72	Chemical characterization of microbial-dominated soil organic matter in the Garwood Valley, Antarctica. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 6485-6498	5.5	22
71	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	1.4	6
70	Lability of soil organic carbon in tropical soils with different clay minerals. *Soil Biology and Biochemistry*, **2010**, 42, 888-895	7.5	94
69	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	7.5	47
68	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, 1319-26	9.3	33
67	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	3.4	17
66	Role of six European tree species and land-use legacy for nitrogen and water budgets in forests. *Global Change Biology*, **2009**, 16, 2224-2240	11.4	26
65	Isotopic evidence for the provenance and turnover of organic carbon by soil microorganisms in the Antarctic dry valleys. *Environmental Microbiology*, **2009**, 11, 597-608	5.2	55
64	Modelling subsurface temperatures in a heat producing coal waste rock pile, Svalbard (78N). *Cold Regions Science and Technology*, **2009**, 58, 68-76	3.8	11
63	Microbial oxidation of pyrite coupled to nitrate reduction in anoxic groundwater sediment. *Environmental Science & Technology*, **2009**, 43, 4851-7	10.3	168
62	Ecological dynamics across the Arctic associated with recent climate change. *Science*, **2009**, 325, 1355-8	33.3	860
61	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	7.5	63
60	Redistributed lacustrine detritus as a spatial subsidy of biological resources for soils in an Antarctic dry valley. *Geoderma*, **2008**, 144, 86-92	6.7	12
59	Metal speciation and bioavailability in acid mine drainage from a high Arctic coal mine waste rock pile: Temporal variations assessed through high-resolution water sampling, geochemical modelling and DGT. *Cold Regions Science and Technology*, **2008**, 54, 89-96	3.8	14

58	Oxygen depletion and phosphorus release following flooding of a cultivated wetland area in Denmark. *Geografisk Tidsskrift*, **2008**, 108, 17-25	1.5	11
57	Hydrology and Transport of Sediment and Solutes at Zackenberg. *Advances in Ecological Research*, **2008**, 197-221	4.6	18
56	Soil and Plant Community-Characteristics and Dynamics at Zackenberg. *Advances in Ecological Research*, **2008**, 40, 223-248	4.6	86
55	Spatial and Inter-Annual Variability of Trace Gas Fluxes in a Heterogeneous High-Arctic Landscape. *Advances in Ecological Research*, **2008**, 40, 473-498	4.6	19
54	Zackenberg in a Circumpolar Context. *Advances in Ecological Research*, **2008**, 499-544	4.6	9
53	High-Arctic Soil CO2 and CH4 Production Controlled by Temperature, Water, Freezing and Snow. *Advances in Ecological Research*, **2008**, 40, 441-472	4.6	31
52	Environmental Impact on an Arctic Soil–Plant System Resulting from Metals Released from Coal Mine Waste in Svalbard (78°N). *Water, Air, and Soil Pollution*, **2008**, 195, 99-114	2.6	22
51	Arctic vegetation damage by winter-generated coal mining pollution released upon thawing. *Environmental Science & Technology*, **2007**, 41, 2407-13	10.3	35
50	Methodologically controlled variations in laboratory and field pH measurements in waterlogged soils. *European Journal of Soil Science*, **2007**, 58, 207-214	3.4	11
49	Annual carbon fixation in terrestrial populations of Nostoc commune (Cyanobacteria) from an Antarctic dry valley is driven by temperature regime. *Global Change Biology*, **2007**, 13, 1224-1237	11.4	60
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