

Bo Elberling

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Ecological dynamics across the Arctic associated with recent climate change. <i>Science</i> , 2009 , 325, 1355-8	33.3	860
218	Estimated stocks of circumpolar permafrost carbon with quantified uncertainty ranges and identified data gaps. <i>Biogeosciences</i> , 2014 , 11, 6573-6593	4.6	806
217	Quantifying global soil carbon losses in response to warming. <i>Nature</i> , 2016 , 540, 104-108	50.4	560
216	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018 , 562, 57-62	50.4	264
215	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	10.2	203
214	Circumpolar assessment of permafrost C quality and its vulnerability over time using long-term incubation data. <i>Global Change Biology</i> , 2014 , 20, 641-52	11.4	186
213	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	3.9	173
212	Microbial oxidation of pyrite coupled to nitrate reduction in anoxic groundwater sediment. <i>Environmental Science & Technology</i> , 2009 , 43, 4851-7	10.3	168
211	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	7.5	156
210	Long-term CO ₂ production following permafrost thaw. <i>Nature Climate Change</i> , 2013 , 3, 890-894	21.4	154
209	Organic Carbon Dynamics in Different Soil Types After Conversion of Forest to Agriculture. <i>Land Degradation and Development</i> , 2015 , 26, 272-283	4.4	132
208	Permafrost collapse after shrub removal shifts tundra ecosystem to a methane source. <i>Nature Climate Change</i> , 2015 , 5, 67-70	21.4	120
207	High nitrous oxide production from thawing permafrost. <i>Nature Geoscience</i> , 2010 , 3, 332-335	18.3	120
206	Large loss of CO in winter observed across the northern permafrost region.. <i>Nature Climate Change</i> , 2019 , 9, 852-857	21.4	112
205	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	10.5	111
204	Greater temperature sensitivity of plant phenology at colder sites: implications for convergence across northern latitudes. <i>Global Change Biology</i> , 2017 , 23, 2660-2671	11.4	103
203	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	7.5	102

202	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	7.5	101
201	Lability of soil organic carbon in tropical soils with different clay minerals. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 888-895	7.5	94
200	Late-Holocene glacier growth in Svalbard, documented by subglacial relict vegetation and living soil microbes. <i>Holocene</i> , 2005 , 15, 396-407	2.6	92
199	Soil and Plant Community-Characteristics and Dynamics at Zackenberg. <i>Advances in Ecological Research</i> , 2008 , 40, 223-248	4.6	86
198	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	11.4	83
197	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	2	83
196	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, 3393-9	10.3	83
195	Bacterial and chemical oxidation of pyritic mine tailings at low temperatures. <i>Journal of Contaminant Hydrology</i> , 2000 , 41, 225-238	3.9	82
194	Winter warming as an important co-driver for <i>Betula</i> ¶hna growth in western Greenland during the past century. <i>Global Change Biology</i> , 2015 , 21, 2410-23	11.4	81
193	Linking yields of upland rice in shifting cultivation to fallow length and soil properties. <i>Agriculture, Ecosystems and Environment</i> , 2006 , 113, 139-149	5.7	80
192	Net regional methane sink in High Arctic soils of northeast Greenland. <i>Nature Geoscience</i> , 2015 , 8, 20-23	18.3	71
191	Distribution and dynamics of soil organic matter in an Antarctic dry valley. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 3095-3106	7.5	70
190	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, 2687-95	4.4	69
189	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	6	69
188	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	7.5	68
187	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	1.5	68
186	Deeper snow alters soil nutrient availability and leaf nutrient status in high Arctic tundra. <i>Biogeochemistry</i> , 2015 , 124, 81-94	3.8	67
185	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, 235-56	3.3	67

184	Field determination of sulphide oxidation rates in mine tailings. <i>Water Resources Research</i> , 1996 , 32, 1773-1784	5.4	66
183	Silicon increases the phosphorus availability of Arctic soils. <i>Scientific Reports</i> , 2019 , 9, 449	4.9	65
182	Future active layer dynamics and carbon dioxide production from thawing permafrost layers in Northeast Greenland. <i>Global Change Biology</i> , 2011 , 17, 911-926	11.4	65
181	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	7.5	63
180	Microscale measurements of oxygen diffusion and consumption in subaqueous sulfide tailings. <i>Geochimica Et Cosmochimica Acta</i> , 2001 , 65, 1897-1905	5.5	63
179	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	3.2	63
178	Gas transport in a confined unsaturated zone during atmospheric pressure cycles. <i>Water Resources Research</i> , 1998 , 34, 2855-2862	5.4	61
177	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	11.4	60
176	Optically stimulated luminescence dating of a Holocene beach ridge plain in Northern Jutland, Denmark. <i>Quaternary Geochronology</i> , 2006 , 1, 305-312	2.7	60
175	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	5.7	57
174	Seasonal trends of soil CO ₂ dynamics in a soil subject to freezing. <i>Journal of Hydrology</i> , 2003 , 276, 159-165		57
173	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	5.2	55
172	Holocene environmental reconstruction from deltaic deposits in northeast Greenland. <i>Journal of Quaternary Science</i> , 2002 , 17, 145-160	2.3	54
171	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	11.4	53
170	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	1.8	49
169	Snow cover and extreme winter warming events control flower abundance of some, but not all species in high arctic Svalbard. <i>Ecology and Evolution</i> , 2013 , 3, 2586-99	2.8	49
168	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	1.9	49
167	Temperature and oxygen control on pyrite oxidation in frozen mine tailings. <i>Cold Regions Science and Technology</i> , 2005 , 41, 121-133	3.8	48

166	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	7.5	47
165	Delta progradation in Greenland driven by increasing glacial mass loss. <i>Nature</i> , 2017 , 550, 101-104	50.4	44
164	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	6.2	43
163	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	3.9	43
162	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	2.8	43
161	Winter carbon dioxide effluxes from Arctic ecosystems: An overview and comparison of methodologies. <i>Global Biogeochemical Cycles</i> , 2010 , 24, n/a-n/a	5.9	43
160	Warming shortens flowering seasons of tundra plant communities. <i>Nature Ecology and Evolution</i> , 2019 , 3, 45-52	12.3	42
159	Geochemical trends in metal-contaminated fiord sediments near a former lead-zinc mine in West Greenland. <i>Applied Geochemistry</i> , 2002 , 17, 493-502	3.5	41
158	Improved estimates show large circumpolar stocks of permafrost carbon while quantifying substantial uncertainty ranges and identifying remaining data gaps		41
157	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	5.7	40
156	Permafrost thawing in organic Arctic soils accelerated by ground heat production. <i>Nature Climate Change</i> , 2015 , 5, 574-578	21.4	38
155	Flocculated meltwater particles control Arctic land-sea fluxes of labile iron. <i>Scientific Reports</i> , 2016 , 6, 24033	4.9	37
154	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	3.8	37
153	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	7.5	37
152	Future permafrost conditions along environmental gradients in Zackenberg, Greenland. <i>Cryosphere</i> , 2015 , 9, 719-735	5.5	35
151	The Importance of Microbial Iron Sulfide Oxidation for Nitrate Depletion in Anoxic Danish Sediments. <i>Aquatic Geochemistry</i> , 2014 , 20, 419-435	1.7	35
150	Deepened winter snow increases stem growth and alters stem $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ in evergreen dwarf shrub <i>Cassiope tetragona</i> in high-arctic Svalbard tundra. <i>Environmental Research Letters</i> , 2015 , 10, 044008	6.2	35
149	Arctic vegetation damage by winter-generated coal mining pollution released upon thawing. <i>Environmental Science & Technology</i> , 2007 , 41, 2407-13	10.3	35

148	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	1.8	35
147	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	5.4	35
146	Reduced net methane emissions due to microbial methane oxidation in a warmer Arctic. <i>Nature Climate Change</i> , 2020 , 10, 317-321	21.4	34
145	Nitrous oxide emissions from permafrost-affected soils. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 420-434	30.2	34
144	Spatial heterogeneity and environmental predictors of permafrost region soil organic carbon stocks. <i>Science Advances</i> , 2021 , 7,	14.3	34
143	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	3.8	33
142	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, 1319-26	9.3	33
141	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	3.9	33
140	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	10.2	32
139	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	4.6	31
138	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	3.5	31
137	Carbon stocks and fluxes in the high latitudes: using site-level data to evaluate Earth system models. <i>Biogeosciences</i> , 2017 , 14, 5143-5169	4.6	30
136	Methane oxidation in contrasting soil types: responses to experimental warming with implication for landscape-integrated CH budget. <i>Global Change Biology</i> , 2017 , 23, 966-976	11.4	30
135	Plant-mediated CH ₄ transport and C gas dynamics quantified in-situ in a Phalaris arundinacea-dominant wetland. <i>Plant and Soil</i> , 2011 , 343, 287-301	4.2	30
134	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	2	30
133	Field Evaluation of Sulphide Oxidation Rates 1993 , 24, 323-338		30
132	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	11.4	29
131	Degradation of Archaeological Wood Under Freezing and Thawing Conditions Effects of Permafrost and Climate Change. <i>Archaeometry</i> , 2014 , 56, 479-495	1.6	28

130	Geomorphological and cryostratigraphical analyses of the Zackenberg Valley, NE Greenland and significance of Holocene alluvial fans. <i>Geomorphology</i> , 2018 , 303, 504-523	4.3	28
129	Cold-season soil respiration in response to grazing and warming in High-Arctic Svalbard. <i>Polar Research</i> , 2010 , 29, 46-57	2	27
128	Tundra Trait Team: A database of plant traits spanning the tundra biome. <i>Global Ecology and Biogeography</i> , 2018 , 27, 1402-1411	6.1	27
127	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	7.5	26
126	Role of six European tree species and land-use legacy for nitrogen and water budgets in forests. <i>Global Change Biology</i> , 2009 , 16, 2224-2240	11.4	26
125	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	10.2	26
124	Statistical upscaling of ecosystem CO fluxes across the terrestrial tundra and boreal domain: Regional patterns and uncertainties. <i>Global Change Biology</i> , 2021 , 27, 4040-4059	11.4	25
123	Nitrate-Controlled Anaerobic Oxidation of Pyrite by Thiobacillus Cultures. <i>Geomicrobiology Journal</i> , 2015 , 32, 412-419	2.5	24
122	Biogenic volatile release from permafrost thaw is determined by the soil microbial sink. <i>Nature Communications</i> , 2018 , 9, 3412	17.4	24
121	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	3.3	24
120	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	5.7	24
119	Contrasting temperature trends across the ice-free part of Greenland. <i>Scientific Reports</i> , 2018 , 8, 1586	4.9	23
118	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	5.2	23
117	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	3.8	23
116	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	3.7	22
115	Greenland climate change: from the past to the future. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2012 , 3, 427-449	8.4	22
114	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	2.1	22
113	Chemical characterization of microbial-dominated soil organic matter in the Garwood Valley, Antarctica. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 6485-6498	5.5	22

112	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	2.6	22
111	Extreme emission of N ₂ O from tropical wetland soil (pantanal, South America). <i>Frontiers in Microbiology</i> , 2012 , 3, 433	5.7	21
110	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	2.9	21
109	Ectomycorrhizal and saprotrophic fungi respond differently to long-term experimentally increased snow depth in the High Arctic. <i>MicrobiologyOpen</i> , 2016 , 5, 856-869	3.4	21
108	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	11.8	21
107	Global plant trait relationships extend to the climatic extremes of the tundra biome. <i>Nature Communications</i> , 2020 , 11, 1351	17.4	19
106	Cryostratigraphy, sedimentology, and the late Quaternary evolution of the Zackenberg River delta, northeast Greenland. <i>Cryosphere</i> , 2017 , 11, 1265-1282	5.5	19
105	Spatial and Inter-Annual Variability of Trace Gas Fluxes in a Heterogeneous High-Arctic Landscape. <i>Advances in Ecological Research</i> , 2008 , 40, 473-498	4.6	19
104	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	1.8	19
103	Soil solution pH measurements using in-line chambers with tension lysimeters. <i>Canadian Journal of Soil Science</i> , 2000 , 80, 283-288	1.4	19
102	An optode sensor array for long-term in situ oxygen measurements in soil and sediment. <i>Journal of Environmental Quality</i> , 2013 , 42, 1267-73	3.4	18
101	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	3.8	18
100	Hydrology and Transport of Sediment and Solutes at Zackenberg. <i>Advances in Ecological Research</i> , 2008 , 197-221	4.6	18
99	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	3.7	17
98	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	7.5	17
97	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	11.5	17
96	The Impact of Climate Change on an Archaeological Site in the Arctic. <i>Archaeometry</i> , 2017 , 59, 1175-1189	1.6	17
95	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	3.4	17

94	Subsurface CO ₂ Dynamics in Temperate Beech and Spruce Forest Stands. <i>Biogeochemistry</i> , 2005 , 75, 479-506	3.8	17
93	Climate change and the loss of organic archaeological deposits in the Arctic. <i>Scientific Reports</i> , 2016 , 6, 28690	4.9	16
92	Preservation Within Log Coffins Before and After Barrow Construction. <i>Journal of Archaeological Science</i> , 2003 , 30, 343-350	2.9	16
91	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	1.8	16
90	Note: Natural heavy-metal release by sulphide oxidation in the High Arctic. <i>Canadian Geotechnical Journal</i> , 1998 , 35, 895-901	3.2	16
89	Modelling present and future permafrost thermal regimes in Northeast Greenland. <i>Cold Regions Science and Technology</i> , 2018 , 146, 199-213	3.8	16
88	Lability classification of soil organic matter in the northern permafrost region. <i>Biogeosciences</i> , 2020 , 17, 361-379	4.6	15
87	Seasonal variations in methane fluxes in response to summer warming and leaf litter addition in a subarctic heath ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 2137-2153	3.7	15
86	The impacts of local farming system development trajectories on greenhouse gas emissions in the northern mountains of Vietnam. <i>Regional Environmental Change</i> , 2007 , 7, 187-208	4.3	15
85	Contrasting above- 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	11.4	15
84	Holocene permafrost history and cryostratigraphy in the High-Arctic Adventdalen Valley, central Svalbard. <i>Boreas</i> , 2018 , 47, 423-442	2.4	15
83	Potential microbial contamination during sampling of permafrost soil assessed by tracers. <i>Scientific Reports</i> , 2017 , 7, 43338	4.9	14
82	Suspended sediment in a high-Arctic river: An appraisal of flux estimation methods. <i>Science of the Total Environment</i> , 2017 , 580, 582-592	10.2	14
81	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	2.5	14
80	Short and Long-Term Controls on Active Layer and Permafrost Carbon Turnover Across the Arctic. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 372-390	3.7	14
79	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	10.2	14
78	Carbon Cycling in Floodplain Ecosystems: Out-Gassing and Photosynthesis Transmit Soil ¹³ C Gradient Through Stream Food Webs. <i>Ecosystems</i> , 2011 , 14, 583-597	3.9	14
77	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. <i>Cold Regions Science and Technology</i> , 2008 , 54, 89-96	3.8	14

76	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	1.8	14
75	A scalable model for methane consumption in arctic mineral soils. <i>Geophysical Research Letters</i> , 2016 , 43, 5143-5150	4.9	14
74	Sea-level proxies in Holocene raised beach ridge deposits (Greenland) revealed by ground-penetrating radar. <i>Scientific Reports</i> , 2017 , 7, 46460	4.9	13
73	Predicting the loss of organic archaeological deposits at a regional scale in Greenland. <i>Scientific Reports</i> , 2019 , 9, 9097	4.9	13
72	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	11.4	13
71	Vegetation phenology gradients along the west and east coasts of Greenland from 2001 to 2015. <i>Ambio</i> , 2017 , 46, 94-105	6.5	12
70	Linking rhizospheric CH ₄ oxidation and net CH ₄ emissions in an arctic wetland based on ¹³ CH ₄ labeling of mesocosms. <i>Plant and Soil</i> , 2017 , 412, 201-213	4.2	12
69	Changes in shifting cultivation systems on small Pacific islands. <i>Geographical Journal</i> , 2012 , 178, 175-187	2.2	12
68	An indigenous soil classification system for Bellona Island, a raised atoll in Solomon Islands. <i>Singapore Journal of Tropical Geography</i> , 2010 , 31, 85-99	1.5	12
67	Redistributed lacustrine detritus as a spatial subsidy of biological resources for soils in an Antarctic dry valley. <i>Geoderma</i> , 2008 , 144, 86-92	6.7	12
66	Gas phase diffusion coefficient in cemented porous media. <i>Journal of Hydrology</i> , 1996 , 178, 93-108	6	12
65	Shallow soils are warmer under trees and tall shrubs across Arctic and Boreal ecosystems. <i>Environmental Research Letters</i> , 2021 , 16, 015001	6.2	12
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