

Torben R Christensen

List of Publications by Year in descending order

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Version: 2024-02-01

140
papers

14,071
citations

20759

60
h-index

22102

113
g-index

168
all docs

168
docs citations

168
times ranked

12325
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological Dynamics Across the Arctic Associated with Recent Climate Change. <i>Science</i> , 2009, 325, 1355-1358.	6.0	1,043
2	Sensitivity of the carbon cycle in the Arctic to climate change. <i>Ecological Monographs</i> , 2009, 79, 523-555.	2.4	814
3	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	2.4	646
4	Key indicators of Arctic climate change: 1971–2017. <i>Environmental Research Letters</i> , 2019, 14, 045010.	2.2	471
5	Climate change and Arctic ecosystems: 2. Modeling, paleodata-model comparisons, and future projections. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	429
6	Thawing sub-arctic permafrost: Effects on vegetation and methane emissions. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	423
7	Factors controlling large scale variations in methane emissions from wetlands. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	317
8	Vascular plant controls on methane emissions from northern peatforming wetlands. <i>Trends in Ecology and Evolution</i> , 1999, 14, 385-388.	4.2	311
9	The polar regions in a 2°C warmer world. <i>Science Advances</i> , 2019, 5, eaaw9883.	4.7	289
10	The effect of vascular plants on carbon turnover and methane emissions from a tundra wetland. <i>Global Change Biology</i> , 2003, 9, 1185-1192.	4.2	284
11	Large tundra methane burst during onset of freezing. <i>Nature</i> , 2008, 456, 628-630.	13.7	283
12	Species-specific Effects of Vascular Plants on Carbon Turnover and Methane Emissions from Wetlands. <i>Biogeochemistry</i> , 2005, 75, 65-82.	1.7	282
13	Climate change and Arctic ecosystems: 1. Vegetation changes north of 55°N between the last glacial maximum, mid-Holocene, and present. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	261
14	An assessment of the carbon balance of Arctic tundra: comparisons among observations, process models, and atmospheric inversions. <i>Biogeosciences</i> , 2012, 9, 3185-3204.	1.3	258
15	Expert assessment of vulnerability of permafrost carbon to climate change. <i>Climatic Change</i> , 2013, 119, 359-374.	1.7	257
16	Ancient bacteria show evidence of DNA repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14401-14405.	3.3	249
17	Methane emissions from wetlands and their relationship with vascular plants: an Arctic example. <i>Global Change Biology</i> , 2001, 7, 919-932.	4.2	232
18	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

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19	Decadal vegetation changes in a northern peatland, greenhouse gas fluxes and net radiative forcing. <i>Global Change Biology</i> , 2006, 12, 2352-2369.	4.2	214
20	Biodiversity, Distributions and Adaptations of Arctic Species in the Context of Environmental Change. <i>Ambio</i> , 2004, 33, 404-417.	2.8	208
21	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , 2016, 11, 034014.	2.2	199
22	A new climate era in the sub-Arctic: Accelerating climate changes and multiple impacts. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	190
23	The uncertain climate footprint of wetlands under human pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4594-4599.	3.3	171
24	Multiple Effects of Changes in Arctic Snow Cover. <i>Ambio</i> , 2011, 40, 32-45.	2.8	169
25	Expert assessment of future vulnerability of the global peatland carbon sink. <i>Nature Climate Change</i> , 2021, 11, 70-77.	8.1	167
26	Siberian wetlands: Where a sink is a source. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	150
27	Variability in exchange of CO ₂ across 12 northern peatland and tundra sites. <i>Global Change Biology</i> , 2010, 16, 2436-2448.	4.2	144
28	Trace gas exchange in a high-Arctic valley: 1. Variations in CO ₂ and CH ₄ Flux between tundra vegetation types. <i>Global Biogeochemical Cycles</i> , 2000, 14, 701-713.	1.9	143
29	Ecosystem change and stability over multiple decades in the Swedish subarctic: complex processes and multiple drivers. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120488.	1.8	140
30	Spatial variation in high-latitude methane flux along a transect across Siberian and European tundra environments. <i>Journal of Geophysical Research</i> , 1995, 100, 21035.	3.3	132
31	Annual cycle of methane emission from a subarctic peatland. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	128
32	The impact of lower sea-ice extent on Arctic greenhouse-gas exchange. <i>Nature Climate Change</i> , 2013, 3, 195-202.	8.1	119
33	Increased nitrous oxide emissions from Arctic peatlands after permafrost thaw. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6238-6243.	3.3	119
34	Annual carbon gas budget for a subarctic peatland, Northern Sweden. <i>Biogeosciences</i> , 2010, 7, 95-108.	1.3	118
35	Presence of <i>Eriophorum scheuchzeri</i> enhances substrate availability and methane emission in an Arctic wetland. <i>Soil Biology and Biochemistry</i> , 2012, 45, 61-70.	4.2	116
36	Methane emission from Arctic tundra. <i>Biogeochemistry</i> , 1993, 21, 117-139.	1.7	115

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37	Vegetation, climatic changes and net carbon sequestration in a North-Scandinavian subarctic mire over 30 years. <i>Global Change Biology</i> , 2005, 11, 051006062331004-???	4.2	115
38	Below ground carbon turnover and greenhouse gas exchanges in a sub-arctic wetland. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1689-1698.	4.2	114
39	Rapid responses of permafrost and vegetation to experimentally increased snow cover in sub-arctic Sweden. <i>Environmental Research Letters</i> , 2013, 8, 035025.	2.2	110
40	Biotic controls on CO ₂ and CH ₄ exchange in wetlands – a closed environment study. <i>Biogeochemistry</i> , 2003, 64, 337-354.	1.7	107
41	Revisiting factors controlling methane emissions from high-Arctic tundra. <i>Biogeosciences</i> , 2013, 10, 5139-5158.	1.3	103
42	Soil and Plant Community-Characteristics and Dynamics at Zackenberg. <i>Advances in Ecological Research</i> , 2008, 40, 223-248.	1.4	99
43	Multi-Decadal Changes in Tundra Environments and Ecosystems: Synthesis of the International Polar Year-Back to the Future Project (IPY-BTF). <i>Ambio</i> , 2011, 40, 705-716.	2.8	98
44	Trace gas exchange in a high-Arctic valley: 3. Integrating and scaling CO ₂ fluxes from canopy to landscape using flux data, footprint modeling, and remote sensing. <i>Global Biogeochemical Cycles</i> , 2000, 14, 725-744.	1.9	93
45	Effects of drought conditions on the carbon dioxide dynamics in a temperate peatland. <i>Environmental Research Letters</i> , 2012, 7, 045704.	2.2	91
46	Land-atmosphere exchange of methane from soil thawing to soil freezing in a high-Arctic wet tundra ecosystem. <i>Global Change Biology</i> , 2012, 18, 1928-1940.	4.2	89
47	Methane flux from northern wetlands and tundra. An ecosystem source modelling approach. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996, 48, 652-661.	0.8	84
48	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
49	Rapid response of greenhouse gas emission to early spring thaw in a subarctic mire as shown by micrometeorological techniques. <i>Geophysical Research Letters</i> , 1997, 24, 3061-3064.	1.5	82
50	Responses to Projected Changes in Climate and UV-B at the Species Level. <i>Ambio</i> , 2004, 33, 418-435.	2.8	82
51	GIS-based Maps and Area Estimates of Northern Hemisphere Permafrost Extent during the Last Glacial Maximum. <i>Permafrost and Periglacial Processes</i> , 2016, 27, 6-16.	1.5	78
52	What Determines the Current Presence or Absence of Permafrost in the TornetrÅsk Region, a Sub-arctic Landscape in Northern Sweden?. <i>Ambio</i> , 2006, 35, 190-197.	2.8	76
53	A catchment-scale carbon and greenhouse gas budget of a subarctic landscape. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 1643-1656.	1.6	76
54	Net carbon accumulation of a high-latitude permafrost palsa mire similar to permafrost-free peatlands. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	76

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55	Ecosystem responses to increased precipitation and permafrost decay in subarctic Sweden inferred from peat and lake sediments. <i>Global Change Biology</i> , 2009, 15, 1652-1663.	4.2	74
56	Seasonal carbon dioxide balance and respiration of a high-arctic fen ecosystem in NE-Greenland. <i>Theoretical and Applied Climatology</i> , 2001, 70, 149-166.	1.3	73
57	Carbon Dioxide and Methane Exchange of a Subarctic Heath in Response to Climate Change Related Environmental Manipulations. <i>Oikos</i> , 1997, 79, 34.	1.2	71
58	Trace gas exchange in a high-Arctic valley: 2. Landscape CH ₄ fluxes measured and modeled using eddy correlation data. <i>Global Biogeochemical Cycles</i> , 2000, 14, 715-723.	1.9	68
59	Effects of N and P fertilization on the greenhouse gas exchange in two northern peatlands with contrasting N deposition rates. <i>Biogeosciences</i> , 2009, 6, 2135-2144.	1.3	68
60	Observations and Status of Peatland Greenhouse Gas Emissions in Europe. <i>Ecological Studies</i> , 2008, , 243-261.	0.4	68
61	Effects on the Structure of Arctic Ecosystems in the Short- and Long-term Perspectives. <i>Ambio</i> , 2004, 33, 436-447.	2.8	66
62	Annual CO ₂ balance of a temperate bog. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 804-811.	0.8	62
63	The carbon budget of the northern cryosphere region. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 231-236.	3.1	61
64	Monitoring the Multi-Year Carbon Balance of a Subarctic Palsa Mire with Micrometeorological Techniques. <i>Ambio</i> , 2012, 41, 207-217.	2.8	60
65	Response of ericoid mycorrhizal colonization and functioning to global change factors. <i>New Phytologist</i> , 2004, 162, 459-469.	3.5	56
66	Effects of Changes in Climate on Landscape and Regional Processes, and Feedbacks to the Climate System. <i>Ambio</i> , 2004, 33, 459-468.	2.8	56
67	A synthesis of the arctic terrestrial and marine carbon cycles under pressure from a dwindling cryosphere. <i>Ambio</i> , 2017, 46, 53-69.	2.8	56
68	Quantifying the relative importance of lake emissions in the carbon budget of a subarctic catchment. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	52
69	Ecosystem carbon response of an Arctic peatland to simulated permafrost thaw. <i>Global Change Biology</i> , 2019, 25, 1746-1764.	4.2	52
70	Large herbivore grazing affects the vegetation structure and greenhouse gas balance in a high arctic mire. <i>Environmental Research Letters</i> , 2015, 10, 045001.	2.2	50
71	Moisture Effects on Temperature Sensitivity of CO ₂ Exchange in a Subarctic Heath Ecosystem. <i>Biogeochemistry</i> , 2004, 70, 315-330.	1.7	48
72	Degradation potentials of dissolved organic carbon (DOC) from thawed permafrost peat. <i>Scientific Reports</i> , 2017, 7, 45811.	1.6	47

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73	Carbon cycling in subarctic tundra; seasonal variation in ecosystem partitioning based on in situ ¹⁴ C pulse-labelling. <i>Soil Biology and Biochemistry</i> , 2004, 36, 245-253.	4.2	45
74	Methane and Global Environmental Change. <i>Annual Review of Environment and Resources</i> , 2018, 43, 165-192.	5.6	45
75	Greenhouse gas emissions from a constructed wetland in southern Sweden. <i>Wetlands Ecology and Management</i> , 2007, 15, 43-50.	0.7	44
76	Modelling CH ₄ emissions from arctic wetlands: effects of hydrological parameterization. <i>Biogeosciences</i> , 2008, 5, 111-121.	1.3	42
77	Quantification of C uptake in subarctic birch forest after setback by an extreme insect outbreak. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	42
78	Effects on the Function of Arctic Ecosystems in the Short- and Long-term Perspectives. <i>Ambio</i> , 2004, 33, 448-458.	2.8	41
79	Total hydrocarbon flux dynamics at a subarctic mire in northern Sweden. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	41
80	Calculations of automatic chamber flux measurements of methane and carbon dioxide using short time series of concentrations. <i>Biogeosciences</i> , 2016, 13, 903-912.	1.3	41
81	Past and Present Permafrost Temperatures in the Abisko Area: Redrilling of Boreholes. <i>Ambio</i> , 2011, 40, 558-565.	2.8	39
82	Exchange of CO ₂ in Arctic tundra: impacts of meteorological variations and biological disturbance. <i>Biogeosciences</i> , 2017, 14, 4467-4483.	1.3	37
83	Is the subarctic landscape still a carbon sink? Evidence from a detailed catchment balance. <i>Geophysical Research Letters</i> , 2016, 43, 1988-1995.	1.5	35
84	Non-methane volatile organic compound flux from a subarctic mire in Northern Sweden. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 226.	0.8	33
85	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
86	Two years with extreme and little snowfall: effects on energy partitioning and surface energy exchange in a high-Arctic tundra ecosystem. <i>Cryosphere</i> , 2016, 10, 1395-1413.	1.5	32
87	High-resolution satellite data reveal an increase in peak growing season gross primary production in a high-Arctic wet tundra ecosystem 1992-2008. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 18, 407-416.	1.4	31
88	Plant and Vegetation Dynamics on Disko Island, West Greenland: Snapshots Separated by Over 40 Years. <i>Ambio</i> , 2011, 40, 624-637.	2.8	30
89	Methane emission bursts from permafrost environments during autumn freeze-in: New insights from ground-penetrating radar. <i>Geophysical Research Letters</i> , 2015, 42, 6732-6738.	1.5	30
90	Controls of spatial and temporal variability in CH ₄ flux in a high arctic fen over three years. <i>Biogeochemistry</i> , 2015, 125, 21-35.	1.7	30

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91	Future vegetation changes in thawing subarctic mires and implications for greenhouse gas exchange—a regional assessment. <i>Climatic Change</i> , 2012, 115, 379-398.	1.7	29
92	Multiple Ecosystem Effects of Extreme Weather Events in the Arctic. <i>Ecosystems</i> , 2021, 24, 122-136.	1.6	29
93	Focus on the impact of climate change on wetland ecosystems and carbon dynamics. <i>Environmental Research Letters</i> , 2016, 11, 100201.	2.2	27
94	Snowpack fluxes of methane and carbon dioxide from high Arctic tundra. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2886-2900.	1.3	26
95	Influence of vascular plant photosynthetic rate on CH ₄ emission from peat monoliths from southern boreal Sweden. <i>Polar Research</i> , 1999, 18, 215-220.	1.6	25
96	Spatial variability of CO ₂ uptake in polygonal tundra: assessing low-frequency disturbances in eddy covariance flux estimates. <i>Biogeosciences</i> , 2017, 14, 3157-3169.	1.3	25
97	Modelling of growing season methane fluxes in a high-Arctic wet tundra ecosystem 1997–2010 using in situ and high-resolution satellite data. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2013, 65, 1972.	0.8	24
98	Tracing the climate signal: mitigation of anthropogenic methane emissions can outweigh a large Arctic natural emission increase. <i>Scientific Reports</i> , 2019, 9, 1146.	1.6	22
99	Multi-year data-model evaluation reveals the importance of nutrient availability over climate in arctic ecosystem C dynamics. <i>Environmental Research Letters</i> , 2020, 15, 094007.	2.2	22
100	The ABCflux database: Arctic 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
101	Evaluation of terrestrial pan-Arctic carbon cycling using a data-assimilation system. <i>Earth System Dynamics</i> , 2019, 10, 233-255.	2.7	21
102	Climatic Factors Influencing the Anthrax Outbreak of 2016 in Siberia, Russia. <i>EcoHealth</i> , 2021, 18, 217-228.	0.9	21
103	Uncertainties and Recommendations. <i>Ambio</i> , 2004, 33, 474-479.	2.8	20
104	Assessing the spatial variability in peak season CO ₂ exchange characteristics across the Arctic tundra using a light response curve parameterization. <i>Biogeosciences</i> , 2014, 11, 4897-4912.	1.3	20
105	Increased photosynthesis compensates for shorter growing season in subarctic tundra—8 years of snow accumulation manipulations. <i>Climatic Change</i> , 2014, 127, 321-334.	1.7	20
106	Rising methane emissions from northern wetlands associated with sea ice decline. <i>Geophysical Research Letters</i> , 2015, 42, 7214-7222.	1.5	20
107	Climate science: Understand Arctic methane variability. <i>Nature</i> , 2014, 509, 279-281.	13.7	20
108	Sectoral approaches to improve regional carbon budgets. <i>Climatic Change</i> , 2008, 88, 209-249.	1.7	19

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109	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.	1.4	19
110	Carbon budget estimation of a subarctic catchment using a dynamic ecosystem model at high spatial resolution. <i>Biogeosciences</i> , 2015, 12, 2791-2808.	1.3	19
111	Toward a statistical description of methane emissions from arctic wetlands. <i>Ambio</i> , 2017, 46, 70-80.	2.8	19
112	Foreword: Synthesis of the Greenland Ecosystem Monitoring program. <i>Ambio</i> , 2017, 46, 1-2.	2.8	19
113	Past Changes in Arctic Terrestrial Ecosystems, Climate and UV Radiation. <i>Ambio</i> , 2004, 33, 398-403.	2.8	18
114	Climate and Peatlands. , 2010, , 85-121.		18
115	A high arctic experience of uniting research and monitoring. <i>Earth's Future</i> , 2017, 5, 650-654.	2.4	16
116	Earlier snowmelt may lead to late season declines in plant productivity and carbon sequestration in Arctic tundra ecosystems. <i>Scientific Reports</i> , 2022, 12, 3986.	1.6	16
117	Potential and actual trace gas fluxes in Arctic terrestrial ecosystems. <i>Polar Research</i> , 1999, 18, 199-206.	1.6	15
118	Tundra permafrost thaw causes significant shifts in energy partitioning. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 68, 30467.	0.8	15
119	Synthesis of Effects in Four Arctic Subregions. <i>Ambio</i> , 2004, 33, 469-473.	2.8	14
120	Environmental Monitoring and Research in the Abisko Area—An Overview. <i>Ambio</i> , 2012, 41, 178-186.	2.8	11
121	Plant Traits are Key Determinants in Buffering the Meteorological Sensitivity of Net Carbon Exchanges of Arctic Tundra. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2675-2694.	1.3	11
122	Establishment of a cross-European field site network in the ALARM project for assessing large-scale changes in biodiversity. <i>Environmental Monitoring and Assessment</i> , 2010, 164, 337-348.	1.3	10
123	Radiation, soil water content, and temperature effects on carbon cycling in an alpine swamp meadow of the northeastern Qinghai-Tibetan Plateau. <i>Biogeosciences</i> , 2022, 19, 861-875.	1.3	10
124	Bimembrane diffusion probe for continuous recording of dissolved and entrapped bubble gas concentrations in peat. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2992-3003.	4.2	9
125	The Man, the Myth, the Legend: Professor Terry V. Callaghan and His 3M Concept. <i>Ambio</i> , 2012, 41, 175-177.	2.8	9
126	Toward UAV-based methane emission mapping of Arctic terrestrial ecosystems. <i>Science of the Total Environment</i> , 2022, 819, 153161.	3.9	9

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127	Carbon partitioning in a wet and a semiwet subarctic mire ecosystem based on in situ ¹⁴ C pulse-labelling. <i>Soil Biology and Biochemistry</i> , 2011, 43, 231-239.	4.2	8
128	Potential future methane emission hot spots in Greenland. <i>Environmental Research Letters</i> , 2019, 14, 035001.	2.2	8
129	Influence of vascular plant photosynthetic rate on CH ₄ emission from peat monoliths from southern boreal Sweden. <i>Polar Research</i> , 1999, 18, 215-220.	1.6	8
130	Potential and actual trace gas fluxes in Arctic terrestrial ecosystems. <i>Polar Research</i> , 1999, 18, 199-206.	1.6	7
131	It's a gas. <i>Nature Geoscience</i> , 2016, 9, 647-648.	5.4	6
132	The missing pieces for better future predictions in subarctic ecosystems: A TornetrÅsk case study. <i>Ambio</i> , 2021, 50, 375-392.	2.8	6
133	Microbial Community Changes in 26,500-Year-Old Thawing Permafrost. <i>Frontiers in Microbiology</i> , 2022, 13, 787146.	1.5	6
134	Rationale, Concepts and Approach to the Assessment. <i>Ambio</i> , 2004, 33, 393-397.	2.8	5
135	Methane in Zackenberg Valley, NE Greenland: multidecadal growing season fluxes of a high-Arctic tundra. <i>Biogeosciences</i> , 2021, 18, 6093-6114.	1.3	5
136	Laboratory Investigations of Methane Buildup in, and Release from, Shallow Peats. <i>Geophysical Monograph Series</i> , 0, , 205-218.	0.1	4
137	Patchy peat. <i>Nature Geoscience</i> , 2009, 2, 163-164.	5.4	1
138	Postscript: The future of the Greenland Ecosystem Monitoring programme. <i>Ambio</i> , 2017, 46, 174-177.	2.8	1
139	Ecology of Arctic environments. Sarah J. Woodin and Mick Marquiss (Editors). 1997. Oxford: Blackwell Science, vi + 286 p, illustrated, hard cover. ISBN 0-632-04218-4. Å£35.00.. <i>Polar Record</i> , 1998, 34, 70-71.	0.4	0
140	Polar biogeochemistry and ecosystem feedback mechanisms in a changing environment. <i>Polar Research</i> , 1999, 18, 189-189.	1.6	0