Jeffrey M Welker

List of Publications by Year
in descending order

184 papers	17,963 citations	25031 57 h-index	13770 129 g-index
186 all docs	186 docs citations	186 times ranked	16837 citing authors

#	Article	IF	Citations
1	Evidence and Implications of Recent Climate Change in Northern Alaska and Other Arctic Regions. Climatic Change, 2005, 72, 251-298.	3.6	1,219
2	Role of Land-Surface Changes in Arctic Summer Warming. Science, 2005, 310, 657-660.	12.6	1,186
3	Ecological Dynamics Across the Arctic Associated with Recent Climate Change. Science, 2009, 325, 1355-1358.	12.6	1,043
4	Shrub expansion in tundra ecosystems: dynamics, impacts and research priorities. Environmental Research Letters, 2011, 6, 045509.	5.2	1,021
5	Quantifying global soil carbon losses in response to warming. Nature, 2016, 540, 104-108.	27.8	879
6	Plot-scale evidence of tundra vegetation change and links to recent summer warming. Nature Climate Change, 2012, 2, 453-457.	18.8	745
7	Global patterns of foliar nitrogen isotopes and their relationships with climate, mycorrhizal fungi, foliar nutrient concentrations, and nitrogen availability. New Phytologist, 2009, 183, 980-992.	7.3	744
8	The role of topography on catchment-scale water residence time. Water Resources Research, 2005, 41, .	4.2	571
9	Winter Biological Processes Could Help Convert Arctic Tundra to Shrubland. BioScience, 2005, 55, 17.	4.9	557
10	Responses of Tundra Plants to Experimental Warming: Meta-Analysis of the International Tundra Experiment. Ecological Monographs, 1999, 69, 491.	5.4	524
11	Global negative vegetation feedback to climate warming responses of leaf litter decomposition rates in cold biomes. Ecology Letters, 2007, 10, 619-627.	6.4	379
12	Spatial distribution and seasonal variation in18O/16O of modern precipitation and river water across the conterminous USA. Hydrological Processes, 2005, 19, 4121-4146.	2.6	273
13	RESPONSES OF TUNDRA PLANTS TO EXPERIMENTAL WARMING:META-ANALYSIS OF THE INTERNATIONAL TUNDRA EXPERIMENT. Ecological Monographs, 1999, 69, 491-511.	5.4	270
14	Substantial proportion of global streamflow less than three monthsÂold. Nature Geoscience, 2016, 9, 126-129.	12.9	252
15	The pronounced seasonality of global groundwater recharge. Water Resources Research, 2014, 50, 8845-8867.	4.2	246
16	Comparative Responses of Phenology and Reproductive Development to Simulated Environmental Change in Sub-Arctic and High Arctic Plants. Oikos, 1993, 67, 490.	2.7	234
17	Long-term experimental manipulation of winter snow regime and summer temperature in arctic and alpine tundra. Hydrological Processes, 1999, 13, 2315-2330.	2.6	232
18	Large loss of CO2 in winter observed across the northern permafrost region. Nature Climate Change, 2019, 9, 852-857.	18.8	225

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19	Isotopic (?18O) characteristics of weekly precipitation collected across the USA: an initial analysis with application to water source studies. Hydrological Processes, 2000, 14, 1449-1464.	2.6	195
20	CO2 exchange in three Canadian High Arctic ecosystems: response to long-term experimental warming. Global Change Biology, 2004, 10, 1981-1995.	9.5	192
21	Title is missing!. Climatic Change, 2000, 44, 139-150.	3.6	180
22	Growth Responses of Four Sub-Arctic Dwarf Shrubs to Simulated Environmental Change. Journal of Ecology, 1994, 82, 307.	4.0	178
23	Landscape Heterogeneity of Shrub Expansion in Arctic Alaska. Ecosystems, 2012, 15, 711-724.	3.4	178
24	Environmental constraints on the growth, photosynthesis and reproductive development of Dryas octopetala at a high Arctic polar semi-desert, Svalbard. Oecologia, 1995, 102, 478-489.	2.0	176
25	Differential water resource use by herbaceous and woody plant life-forms in a shortgrass steppe community. Oecologia, 1998, 117, 504-512.	2.0	176
26	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
27	Wintertime CO2efflux from Arctic soils: Implications for annual carbon budgets. Global Biogeochemical Cycles, 1999, 13, 775-779.	4.9	168
28	Grazing Impacts on Soil Carbon and Microbial Communities in a Mixedâ€Grass Ecosystem. Soil Science Society of America Journal, 2008, 72, 939-948.	2.2	160
29	Winter and early spring CO2efflux from tundra communities of northern Alaska. Journal of Geophysical Research, 1998, 103, 29023-29027.	3.3	158
30	Responses of Plant Litter Decomposition and Nitrogen Mineralisation to Simulated Environmental Change in a High Arctic Polar Semi-Desert and a Subarctic Dwarf Shrub Heath. Oikos, 1995, 74, 503.	2.7	128
31	On the temperature correlation of Î´18O in modern precipitation. Earth and Planetary Science Letters, 2005, 231, 87-96.	4.4	126
32	Temperature and Microtopography Interact to Control Carbon Cycling in a High Arctic Fen. Ecosystems, 2008, 11, 61-76.	3.4	123
33	Overview of the MOSAiC expedition: Atmosphere. Elementa, 2022, 10, .	3.2	121
34	Quantifying the isotopic â€˜continental effectâ€™. Earth and Planetary Science Letters, 2014, 406, 123-133.	4.4	106
35	The temperature responses of soil respiration in deserts: a seven desert synthesis. Biogeochemistry, 2011, 103, 71-90.	3.5	101
36	Leaf mineral nutrition of Arctic plants in response to warming and deeper snow in northern Alaska. Oikos, 2005, 109, 167-177.	2.7	99

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37	Decomposition of old organic matter as a result of deeper active layers in a snow depth manipulation experiment. Oecologia, 2010, 163, 785-792.	2.0	98
38	Interactions among shrub cover and the soil microclimate may determine future Arctic carbon budgets. Ecology Letters, 2012, 15, 1415-1422.	6.4	93
39	The influence of air mass source on the seasonal isotopic composition of precipitation, eastern USA. Journal of Geochemical Exploration, 2009, 102, 103-112.	3.2	88
40	Climate and species affect fine root production with long-term fertilization in acidic tussock tundra near Toolik Lake, Alaska. Oecologia, 2007, 153, 643-652.	2.0	87
41	Large herbivores limit <scp><scp>CO</scp></scp>₂ uptake and suppress carbon cycle responses to warming in <scp>W</scp>est <scp>G</scp>reenland. Global Change Biology, 2012, 18, 469-479.	9.5	83
42	Summer temperature increase has distinct effects on the ectomycorrhizal fungal communities of moist tussock and dry tundra in Arctic Alaska. Global Change Biology, 2015, 21, 959-972.	9.5	83
43	Atmospheric circulation is reflected in precipitation isotope gradients over the conterminous United States. Journal of Geophysical Research, 2010, 115, .	3.3	82
44	Warming shortens flowering seasons of tundra plant communities. Nature Ecology and Evolution, 2019, 3, 45-52.	7.8	79
45	Warming chambers stimulate early season growth of an arctic sedge: results of a minirhizotron field study. Oecologia, 2005, 142, 616-626.	2.0	78
46	High Arctic wetting reduces permafrost carbon feedbacks to climate warming. Nature Climate Change, 2014, 4, 51-55.	18.8	76
47	Leaf carbon isotope discrimination and vegetative responses of Dryas octopetala to temperature and water manipulations in a High Arctic polar semi-desert, Svalbard. Oecologia, 1993, 95, 463-469.	2.0	68
48	Ecological significance of litter redistribution by wind and snow in arctic landscapes. Ecography, 2000, 23, 623-631.	4.5	67
49	Early Spring Nitrogen Uptake by Snow-Covered Plants: A Comparison of Arctic and Alpine Plant Function under the Snowpack. Arctic, Antarctic, and Alpine Research, 2000, 32, 404.	1.1	66
50	Tibetan Alpine Tundra Responses to Simulated Changes in Climate: Aboveground Biomass and Community Responses. Arctic and Alpine Research, 1996, 28, 203.	1.3	65
51	Carbon Dioxide Fluxes in Moist and Dry Arctic Tundra during the Snow-free Season: Responses to Increases in Summer Temperature and Winter Snow Accumulation. Arctic and Alpine Research, 1998, 30, 373-380.	1.3	64
52	MODELING THE EFFECT OF PHOTOSYNTHETIC VEGETATION PROPERTIES ON THE NDVIâ€“LAI RELATIONSHIP. Ecology, 2006, 87, 2765-2772.	3.2	64
53	Variation in leaf physiology of Salix arctica within and across ecosystems in the High Arctic: test of a dual isotope (Î”13C and Î”18O) conceptual model. Oecologia, 2007, 151, 372-386.	2.0	63
54	Monthly precipitation isoscapes (<i>Î´</i>¹⁸O) of the United States: Connections with surface temperatures, moisture source conditions, and air mass trajectories. Journal of Geophysical Research, 2010, 115, .	3.3	63

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55	Soil Organic Carbon Composition in a Northern Mixedâ€Grass Prairie. Soil Science Society of America Journal, 2005, 69, 1746-1756.	2.2	60
56	Hydrogen isotope fractionation in leaf waxes in the Alaskan Arctic tundra. Geochimica Et Cosmochimica Acta, 2017, 213, 216-236.	3.9	60
57	Diet of female polar bears in the southern Beaufort Sea of Alaska: evidence for an emerging alternative foraging strategy in response to environmental change. Polar Biology, 2015, 38, 1035-1047.	1.2	58
58	Coupled long-term summer warming and deeper snow alters species composition and stimulates gross primary productivity in tussock tundra. Oecologia, 2016, 181, 287-297.	2.0	58
59	Carbon Dioxide Fluxes in Moist and Dry Arctic Tundra during the Snow-Free Season: Responses to Increases in Summer Temperature and Winter Snow Accumulation. Arctic and Alpine Research, 1998, 30, 373.	1.3	58
60	Arctic and North Atlantic Oscillation phase changes are recorded in the isotopes (delta18O and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	9.5	57
61	Increased snow facilitates plant invasion in mixedgrass prairie. New Phytologist, 2008, 179, 440-448.	7.3	57
62	Complex carbon cycle responses to multiâ€level warming and supplemental summer rain in the high <scp>A</scp>rctic. Global Change Biology, 2013, 19, 1780-1792.	9.5	57
63	Late-glacial to late-Holocene shifts in global precipitation Î´¹⁸O. Climate of the Past, 2015, 11, 1375-1393.	3.4	57
64	Experimental warming differentially affects vegetative and reproductive phenology of tundra plants. Nature Communications, 2021, 12, 3442.	12.8	56
65	Amountâ€weighted annual isotopic (<i>Î´</i>¹⁸O) values are affected by the seasonality of precipitation: A sensitivity study. Geophysical Research Letters, 2007, 34, .	4.0	55
66	Declining growth of deciduous shrubs in the warming climate of continental western Greenland. Journal of Ecology, 2018, 106, 640-654.	4.0	53
67	ENSO effects on Î´¹⁸O, Î´²H and <i>dâ€excess</i> values in precipitation across the U.S. using a highâ€density, longâ€term network (USNIP). Rapid Communications in Mass Spectrometry, 2012, 26, 1893-1898.	1.5	52
68	Winter snow and spring temperature have differential effects on vegetation phenology and productivity across Arctic plant communities. Global Change Biology, 2021, 27, 1572-1586.	9.5	51
69	Longâ€term experimental warming alters community composition of ascomycetes in Alaskan moist and dry arctic tundra. Molecular Ecology, 2015, 24, 424-437.	3.9	50
70	Carbon and water relations of Salix monticola in response to winter browsing and changes in surface water hydrology: an isotopic study using Î´13 C and Î´18 O. Oecologia, 1999, 120, 375-385.	2.0	48
71	Choose Your Poisonâ€"Space-Use Strategy Influences Pollutant Exposure in Barents Sea Polar Bears. Environmental Science & Technology, 2018, 52, 3211-3221.	10.0	48
72	Evidence of Nonlinearity in the Response of Net Ecosystem CO₂Exchange to Increasing Levels of Winter Snow Depth in the High Arctic of Northwest Greenland. Arctic, Antarctic, and Alpine Research, 2011, 43, 95-106.	1.1	47

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73	Winter precipitation and snow accumulation drive the methane sink or source strength of Arctic tussock tundra. Global Change Biology, 2016, 22, 2818-2833.	9.5	47
74	Emission Changes Dwarf the Influence of Feeding Habits on Temporal Trends of Per- and Polyfluoroalkyl Substances in Two Arctic Top Predators. Environmental Science & Technology, 2017, 51, 11996-12006.	10.0	47
75	Carbon import among vegetative tillers within two bunchgrasses: assessment with carbon-11 labelling. Oecologia, 1985, 67, 209-212.	2.0	46
76	Nitrogen-15 partitioning within a three generation tiller sequence of the bunchgrass Schizachyrium scoparium: response to selective defoliation. Oecologia, 1987, 74, 330-334.	2.0	45
77	Moisture source temperatures and precipitation <i>Î´</i>¹⁸Oâ€temperature relationships across the United States. Water Resources Research, 2010, 46, .	4.2	45
78	Experimental manipulations of winter snow and summer rain influence ecosystem carbon cycling in a mixedâ€grass prairie, Wyoming, USA. Ecohydrology, 2010, 3, 284-293.	2.4	44
79	Sea ice-associated decline in body condition leads to increased concentrations of lipophilic pollutants in polar bears (Ursus maritimus) from Svalbard, Norway. Science of the Total Environment, 2017, 576, 409-419.	8.0	44
80	The Missing Angle: Ecosystem Consequences of Phenological Mismatch. Trends in Ecology and Evolution, 2019, 34, 885-888.	8.7	44
81	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
82	Contrasting assignment of migratory organisms to geographic origins using longâ€term versus yearâ€specific precipitation isotope maps. Methods in Ecology and Evolution, 2014, 5, 891-900.	5.2	41
83	Arctic cyclone water vapor isotopes support past sea ice retreat recorded in Greenland ice. Scientific Reports, 2015, 5, 10295.	3.3	41
84	Pacificâ€“North American Teleconnection Controls on Precipitation Isotopes (Î´18O) across the Contiguous United States and Adjacent Regions: A GCM-Based Analysis. Journal of Climate, 2014, 27, 1046-1061.	3.2	40
85	Phenotypic variation in seedlings of a ?keystone? tree species (Quercus douglasii): the interactive effects of acorn source and competitive environment. Oecologia, 1993, 96, 537-547.	2.0	39
86	Differential ecophysiological response of deciduous shrubs and a graminoid to long-term experimental snow reductions and additions in moist acidic tundra, Northern Alaska. Oecologia, 2014, 174, 339-350.	2.0	39
87	Arctic sea-ice loss fuels extreme European snowfall. Nature Geoscience, 2021, 14, 283-288.	12.9	39
88	Early and Late Winter CO₂ Efflux from Arctic Tundra in the Kuparuk River Watershed, Alaska, U.S.A.. Arctic, Antarctic, and Alpine Research, 1999, 31, 187-190.	1.1	38
89	Early and Late Winter CO 2 Efflux from Arctic Tundra in the Kuparuk River Watershed, Alaska, U.S.A.. Arctic, Antarctic, and Alpine Research, 1999, 31, 187.	1.1	37
90	The Influence of Simulated Browsing on Tissue Water Relations, Growth and Survival of Quercus douglasii (Hook and Arn.) Seedlings Under Slow and Rapid Rates of Soil Drought. Functional Ecology, 1990, 4, 807.	3.6	36

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91	Capture and allocation of nitrogen byQuercus douglasii seedlings in competition with annual and perennial grasses. Oecologia, 1991, 87, 459-466.	2.0	36
92	Oxygen isotope content of CO2in nocturnal ecosystem respiration: 2. Short-term dynamics of foliar and soil component fluxes in an old-growth ponderosa pine forest. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	36
93	Longâ€term increase in snow depth leads to compositional changes in arctic ectomycorrhizal fungal communities. Global Change Biology, 2016, 22, 3080-3096.	9.5	36
94	Improved <scp>highâ€resolution</scp> global and regionalized isoscapes of <scp><i>Î´</i>¹⁸O</scp>, <scp><i>Î´</i>²H</scp> and <scp><i>d</i>â€excess</scp> in precipitation. Hydrological Processes, 2021, 35, e14254.	2.6	36
95	Holocene atmospheric circulation in the central North Pacific: A new terrestrial diatom and Î´18O dataset from the Aleutian Islands. Quaternary Science Reviews, 2018, 194, 27-38.	3.0	35
96	Leaf isotopic (?13C and ?15N) and nitrogen contents of Carex plants along the Eurasian Coastal Arctic: results from the Northeast Passage expedition. Polar Biology, 2003, 27, 29-37.	1.2	34
97	Radiocarbon Content of CO₂ Respired from High Arctic Tundra in Northwest Greenland. Arctic, Antarctic, and Alpine Research, 2010, 42, 342-350.	1.1	34
98	Compositional and functional shifts in arctic fungal communities in response to experimentally increased snow depth. Soil Biology and Biochemistry, 2016, 100, 201-209.	8.8	34
99	Alpine Grassland CO₂Exchange and Nitrogen Cycling: Grazing History Effects, Medicine Bow Range, Wyoming, U.S.A. Arctic, Antarctic, and Alpine Research, 2004, 36, 11-20.	1.1	33
100	Permafrost thaw affects boreal deciduous plant transpiration through increased soil water, deeper thaw, and warmer soils. Ecohydrology, 2014, 7, 982-997.	2.4	31
101	Arctic plant ecophysiology and water source utilization in response to altered snow: isotopic (Î´18O) Tj ETQq1 1 0.784314 rgBT /Over	2.0	31
102	CO₂Flux in Arctic and Alpine Dry Tundra: Comparative Field Responses Under Ambient and Experimentally Warmed Conditions. Arctic, Antarctic, and Alpine Research, 1999, 31, 272-277.	1.1	30
103	Arctic Vortex changes alter the sources and isotopic values of precipitation in northeastern US. Scientific Reports, 2016, 6, 22647.	3.3	30
104	Pacific North American circulation pattern links external forcing and North American hydroclimatic change over the past millennium. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3340-3345.	7.1	30
105	Aircraft validation of Aura Tropospheric Emission Spectrometer retrievals of HDO / H₂O. Atmospheric Measurement Techniques, 2014, 7, 3127-3138.	3.1	29
106	<scp>N</scp>orth <scp>A</scp>merican precipitation isotope (Î´¹⁸O) zones revealed in time series modeling across <scp>C</scp>anada and northern <scp>U</scp>nited <scp>S</scp>tates. Water Resources Research, 2015, 51, 1284-1299.	4.2	29
107	Global sinusoidal seasonality in precipitation isotopes. Hydrology and Earth System Sciences, 2019, 23, 3423-3436.	4.9	29
108	A risk assessment review of mercury exposure in Arctic marine and terrestrial mammals. Science of the Total Environment, 2022, 829, 154445.	8.0	29

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109	Oxygen isotope content of CO_2in nocturnal ecosystem respiration: 1. Observations in forests along a precipitation transect in Oregon, USA. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	28
110	Estimation of Carbon Sequestration by Combining Remote Sensing and Net Ecosystem Exchange Data for Northern Mixed-Grass Prairie and Sagebrushâ€“Steppe Ecosystems. Environmental Management, 2004, 33, S432-S441.	2.7	28
111	Synoptic and Mesoscale Mechanisms Drive Winter Precipitation Î´¹⁸O/Î´²H in Southâ€Central Alaska. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4252-4266.	3.3	27
112	A Note on Summer CO_2 Flux, Soil Organic Matter, and Microbial Biomass from Different High Arctic Ecosystem Types in Northwestern Greenland. Arctic, Antarctic, and Alpine Research, 2000, 32, 104-106.	1.1	26
113	Seasonal foraging strategies of Alaskan gray wolves (<i>Canis</i> <i>lupus</i>) in an ecosystem subsidized by Pacific salmon (<i>Oncorhynchus</i> spp.). Canadian Journal of Zoology, 2017, 95, 555-563.	1.0	26
114	Geographical Area and Life History Traits Influence Diet in an Arctic Marine Predator. PLoS ONE, 2016, 11, e0155980.	2.5	26
115	CO_2 Flux in Arctic and Alpine Dry Tundra: Comparative Field Responses under Ambient and Experimentally Warmed Conditions. Arctic, Antarctic, and Alpine Research, 1999, 31, 272.	1.1	26
116	Responses of bracken to increased temperature and nitrogen availability. Global Change Biology, 1996, 2, 59-66.	9.5	24
117	Twentieth century erosion in Arctic Alaska foothills: The influence of shrubs, runoff, and permafrost. Journal of Geophysical Research, 2011, 116, .	3.3	24
118	Rates and radiocarbon content of summer ecosystem respiration in response to longâ€term deeper snow in the High Arctic of NW Greenland. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1180-1194.	3.0	24
119	Epicuticular waxes of two arctic species: Compositional differences in relation to winter snow cover. Phytochemistry, 1995, 38, 45-52.	2.9	23
120	Interactions among vegetation, climate, and herbivory control greenhouse gas fluxes in a subarctic coastal wetland. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2960-2975.	3.0	23
121	Stable isotopes of water show deep seasonal recharge in northern bogs and fens. Hydrological Processes, 2014, 28, 4938-4952.	2.6	22
122	Delayed herbivory by migratory geese increases summerâ€long CO₂ uptake in coastal western Alaska. Global Change Biology, 2019, 25, 277-289.	9.5	22
123	Reindeer turning maritime: Iceâ€locked tundra triggers changes in dietary niche utilization. Ecosphere, 2019, 10, e02672.	2.2	21
124	Terrestrial and marine trophic pathways support young-of-year growth in a nearshore Arctic fish. Polar Biology, 2013, 36, 137-146.	1.2	20
125	Stable isotopic evidence of El NiÃ±o-like atmospheric circulation in the Pliocene western United States. Climate of the Past, 2013, 9, 903-912.	3.4	20
126	The amount and timing of precipitation control the magnitude, seasonality and sources (¹⁴C) of ecosystem respiration in a polar semi-desert, northwestern Greenland. Biogeosciences, 2014, 11, 4289-4304.	3.3	20

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127	Soil bacterial community and functional shifts in response to altered snowpack in moist acidic tundra of northern Alaska. Soil, 2016, 2, 459-474.	4.9	20
128	Energy and water additions give rise to simple responses in plant canopy and soil microclimates of a high arctic ecosystem. Journal of Geophysical Research, 2008, 113, .	3.3	19
129	Phenological mismatch between season advancement and migration timing alters Arctic plant traits. Journal of Ecology, 2019, 107, 2503-2518.	4.0	19
130	Winter precipitation isotope slopes of the contiguous USA and their relationship to the Pacific/North American (PNA) pattern. Climate Dynamics, 2013, 41, 403-420.	3.8	18
131	Isotopic signature of extreme precipitation events in the western U.S. and associated phases of Arctic and tropical climate modes. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8913-8924.	3.3	18
132	Reassessing the role of temperature in precipitation oxygen isotopes across the eastern and central <scp>U</scp>nited <scp>S</scp>tates through weekly precipitationâ€day data. Water Resources Research, 2017, 53, 7644-7661.	4.2	18
133	Two Decades of Mercury Concentrations in Barents Sea Polar Bears (<i>Ursus maritimus</i>) in Relation to Dietary Carbon, Sulfur, and Nitrogen. Environmental Science & Technology, 2020, 54, 7388-7397.	10.0	18
134	Automatic flower detection and phenology monitoring using timeâ€lapse cameras and deep learning. Remote Sensing in Ecology and Conservation, 2022, 8, 765-777.	4.3	18
135	The age of surface-exposed ice along the northern margin of the Greenland Ice Sheet. Journal of Glaciology, 2020, 66, 667-684.	2.2	17
136	Long-term analysis of Hubbard Brook stable oxygen isotope ratios of streamwater and precipitation sulfate. Biogeochemistry, 2012, 111, 443-454.	3.5	16
137	Spaceâ€time tradeoffs in the development of precipitationâ€based isoscape models for determining migratory origin. Journal of Avian Biology, 2015, 46, 658-667.	1.2	16
138	Influence of sea ice on ocean water vapor isotopes and Greenland ice core records. Geophysical Research Letters, 2016, 43, 12,475.	4.0	16
139	NDVI Changes Show Warming Increases the Length of the Green Season at Tundra Communities in Northern Alaska: A Fine-Scale Analysis. Frontiers in Plant Science, 2020, 11, 1174.	3.6	16
140	Seasonal Patterns of Riverine Carbon Sources and Export in NW Greenland. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 840-856.	3.0	15
141	Winter Ecosystem Respiration and Sources of CO₂ From the High Arctic Tundra of Svalbard: Response to a Deeper Snow Experiment. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2627-2642.	3.0	14
142	Migratory goose arrival time plays a larger role in influencing forage quality than advancing springs in an Arctic coastal wetland. PLoS ONE, 2019, 14, e0213037.	2.5	14
143	Blue-Oak Regeneration and Seedling Water Relations in Four Sites within a California Oak Savanna. International Journal of Plant Sciences, 1994, 155, 744-749.	1.3	14
144	Thawing seasonal ground ice: An important water source for boreal forest plants in Interior Alaska. Ecohydrology, 2017, 10, e1796.	2.4	13

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145	Relationships between daytime carbon dioxide uptake and absorbed photosynthetically active radiation for three different mountain/plains ecosystems. Journal of Geophysical Research, 2002, 107, ACH 19-1.	3.3	12
146	Hydroclimatic Controls on the Isotopic (Î´18 O, Î´2 H, d-excess) Traits of Pan-Arctic Summer Rainfall Events. Frontiers in Earth Science, 2021, 9, .	1.8	12
147	DOC export is exceeded by C fixation in May Creek: A late-successional watershed of the Copper River Basin, Alaska. PLoS ONE, 2019, 14, e0225271.	2.5	11
148	Introduction to special section on Biocomplexity of Arctic Tundra Ecosystems. Journal of Geophysical Research, 2008, 113, .	3.3	10
149	Short-Term Impacts of the Air Temperature on Greening and Senescence in Alaskan Arctic Plant Tundra Habitats. Remote Sensing, 2017, 9, 1338.	4.0	10
150	Arctic Snow Isotope Hydrology: A Comparative Snow-Water Vapor Study. Atmosphere, 2021, 12, 150.	2.3	10
151	Subarctic catchment water storage and carbon cycling â€“ Leading the way for future studies using integrated datasets at Pallas, Finland. Hydrological Processes, 2021, 35, e14350.	2.6	10
152	Baffin Bay sea ice extent and synoptic moisture transport drive water vapor isotope (<i>Î´</i>¹⁸O,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (8 variability in coastal northwest Greenland. Atmospheric Chemistry and Physics, 2020, 20, 13929-13955.	4.9	10
153	Microbial activity discovered in previously ice-entombed Arctic ecosystems. Eos, 2002, 83, 281.	0.1	9
154	Modeling the seasonality of belowground respiration along an elevation gradient in the western Chugach Mountains, Alaska. Biogeochemistry, 2010, 101, 61-75.	3.5	9
155	CO₂ exchange along a hydrologic gradient in the Kenai Lowlands, AK: feedback implications of wetland drying and vegetation succession. Ecohydrology, 2013, 6, 38-50.	2.4	9
156	Limited variation in proportional contributions of auto- and heterotrophic soil respiration, despite large differences in vegetation structure and function in the Low Arctic. Biogeochemistry, 2016, 127, 339-351.	3.5	9
157	Closing the Winter Gapâ€"Yearâ€Round Measurements of Soil CO₂ Emission Sources in Arctic Tundra. Geophysical Research Letters, 2022, 49, .	4.0	9
158	Stormflows Drive Stream Carbon Concentration, Speciation, and Dissolved Organic Matter Composition in Coastal Temperate Rainforest Watersheds. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005804.	3.0	8
159	Soil water retention after natural and simulated rainfall on a temperate grassland. Theoretical and Applied Climatology, 1991, 44, 229-237.	2.8	7
160	Correspondence between mercury and stable isotopes in high Arctic marine and terrestrial avian species from northwest Greenland. Polar Biology, 2018, 41, 1475-1491.	1.2	7
161	Cloud cover and delayed herbivory relative to timing of spring onset interact to dampen climate change impacts on net ecosystem exchange in a coastal Alaskan wetland. Environmental Research Letters, 2019, 14, 084030.	5.2	7
162	Isotopic Discrimination of Aquifer Recharge Sources, Subsystem Connectivity and Flow Patterns in the South Fork Palouse River Basin, Idaho and Washington, USA. Hydrology, 2019, 6, 15.	3.0	7

#	Article	IF	Citations
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