

Isla H Myers-Smith

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

12,168
citations

44069

48
h-index

58581

82
g-index

100
all docs

100
docs citations

100
times ranked

14505
citing authors

#	ARTICLE	IF	CITATIONS
1	The tundra phenology database: more than two decades of tundra phenology responses to climate change. <i>Arctic Science</i> , 2022, 8, 1026-1039.	2.3	7
2	Global application of an unoccupied aerial vehicle photogrammetry protocol for predicting aboveground biomass in non-forest ecosystems. <i>Remote Sensing in Ecology and Conservation</i> , 2022, 8, 57-71.	4.3	13
3	Tundra vegetation change and impacts on permafrost. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 68-84.	29.7	87
4	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	9.5	113
5	Winters are changing: snow effects on Arctic and alpine tundra ecosystems. <i>Arctic Science</i> , 2022, 8, 572-608.	2.3	43
6	Range shifts in a foundation sedge potentially induce large Arctic ecosystem carbon losses and gains. <i>Environmental Research Letters</i> , 2022, 17, 045024.	5.2	5
7	Directional turnover towards larger-ranged plants over time and across habitats. <i>Ecology Letters</i> , 2022, 25, 466-482.	6.4	39
8	Flower Detection Using Object Analysis: New Ways to Quantify Plant Phenology in a Warming Tundra Biome. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 9287-9296.	4.9	2
9	Arctic tundra shrubification: a review of mechanisms and impacts on ecosystem carbon balance. <i>Environmental Research Letters</i> , 2021, 16, 053001.	5.2	121
10	Experimental warming differentially affects vegetative and reproductive phenology of tundra plants. <i>Nature Communications</i> , 2021, 12, 3442.	12.8	56
11	Accounting for year effects and sampling error in temporal analyses of invertebrate population and biodiversity change: a comment on Seibold et al. 2019. <i>Insect Conservation and Diversity</i> , 2021, 14, 149-154.	3.0	43
12	Shallow soils are warmer under trees and tall shrubs across Arctic and Boreal ecosystems. <i>Environmental Research Letters</i> , 2021, 16, 015001.	5.2	39
13	Status and trends in Arctic vegetation: Evidence from experimental warming and long-term monitoring. <i>Ambio</i> , 2020, 49, 678-692.	5.5	119
14	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
15	Summer warming explains widespread but not uniform greening in the Arctic tundra biome. <i>Nature Communications</i> , 2020, 11, 4621.	12.8	201
16	Rare and common vertebrates span a wide spectrum of population trends. <i>Nature Communications</i> , 2020, 11, 4394.	12.8	50
17	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.	7.1	43
18	Landscape-scale forest loss as a catalyst of population and biodiversity change. <i>Science</i> , 2020, 368, 1341-1347.	12.6	91

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19	Global plant trait relationships extend to the climatic extremes of the tundra biome. <i>Nature Communications</i> , 2020, 11, 1351.	12.8	52
20	Mapping human pressures on biodiversity across the planet uncovers anthropogenic threat complexes. <i>People and Nature</i> , 2020, 2, 380-394.	3.7	139
21	Woody plant encroachment intensifies under climate change across tundra and savanna biomes. <i>Global Ecology and Biogeography</i> , 2020, 29, 925-943.	5.8	105
22	SoilTemp: A global database of near-surface temperature. <i>Global Change Biology</i> , 2020, 26, 6616-6629.	9.5	122
23	Complexity revealed in the greening of the Arctic. <i>Nature Climate Change</i> , 2020, 10, 106-117.	18.8	447
24	Aboveground biomass corresponds strongly with drone-derived canopy height but weakly with greenness (NDVI) in a shrub tundra landscape. <i>Environmental Research Letters</i> , 2020, 15, 125004.	5.2	36
25	Drone data reveal heterogeneity in tundra greenness and phenology not captured by satellites. <i>Environmental Research Letters</i> , 2020, 15, 125002.	5.2	35
26	The geography of biodiversity change in marine and terrestrial assemblages. <i>Science</i> , 2019, 366, 339-345.	12.6	385
27	Rapid retreat of permafrost coastline observed with aerial drone photogrammetry. <i>Cryosphere</i> , 2019, 13, 1513-1528.	3.9	51
28	Species richness change across spatial scales. <i>Oikos</i> , 2019, 128, 1079-1091.	2.7	160
29	Eighteen years of ecological monitoring reveals multiple lines of evidence for tundra vegetation change. <i>Ecological Monographs</i> , 2019, 89, e01351.	5.4	113
30	Local snow melt and temperature—but not regional sea ice—explain variation in spring phenology in coastal Arctic tundra. <i>Global Change Biology</i> , 2019, 25, 2258-2274.	9.5	52
31	Seed predation increases from the Arctic to the Equator and from high to low elevations. <i>Science Advances</i> , 2019, 5, eaau4403.	10.3	61
32	Plant traits inform predictions of tundra responses to global change. <i>New Phytologist</i> , 2019, 221, 1742-1748.	7.3	70
33	Traditional plant functional groups explain variation in economic but not size-related traits across the tundra biome. <i>Global Ecology and Biogeography</i> , 2019, 28, 78-95.	5.8	49
34	Warming shortens flowering seasons of tundra plant communities. <i>Nature Ecology and Evolution</i> , 2019, 3, 45-52.	7.8	79
35	Vegetation monitoring using multispectral sensors—best practices and lessons learned from high latitudes. <i>Journal of Unmanned Vehicle Systems</i> , 2019, 7, 54-75.	1.2	99
36	Contrasting shrub species respond to early summer temperatures leading to correspondence of shrub growth patterns. <i>Environmental Research Letters</i> , 2018, 13, 034005.	5.2	29

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37	Comment on "Precipitation drives global variation in natural selection". <i>Science</i> , 2018, 359, .	12.6	5
38	Climate warming as a driver of tundra shrubline advance. <i>Journal of Ecology</i> , 2018, 106, 547-560.	4.0	138
39	Location, location, location: considerations when using lightweight drones in challenging environments. <i>Remote Sensing in Ecology and Conservation</i> , 2018, 4, 7-19.	4.3	141
40	Plant-plant interactions could limit recruitment and range expansion of tall shrubs into alpine and Arctic tundra. <i>Polar Biology</i> , 2018, 41, 2211-2219.	1.2	11
41	Global trait-environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018, 2, 1906-1917.	7.8	397
42	Tundra Trait Team: A database of plant traits spanning the tundra biome. <i>Global Ecology and Biogeography</i> , 2018, 27, 1402-1411.	5.8	57
43	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018, 562, 57-62.	27.8	451
44	Reviews and syntheses: Changing ecosystem influences on soil thermal regimes in northern high-latitude permafrost regions. <i>Biogeosciences</i> , 2018, 15, 5287-5313.	3.3	143
45	BioTIME: A database of biodiversity time series for the Anthropocene. <i>Global Ecology and Biogeography</i> , 2018, 27, 760-786.	5.8	289
46	A warmer and greener cold world: summer warming increases shrub growth in the alpine and high Arctic tundra. <i>Erdkunde</i> , 2018, 72, 63-85.	0.8	23
47	Effect of Terrain Characteristics on Soil Organic Carbon and Total Nitrogen Stocks in Soils of Herschel Island, Western Canadian Arctic. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 92-107.	3.4	46
48	Plant Biodiversity Change Across Scales During the Anthropocene. <i>Annual Review of Plant Biology</i> , 2017, 68, 563-586.	18.7	179
49	Different parts, different stories: climate sensitivity of growth is stronger in root collars vs. stems in tundra shrubs. <i>Global Change Biology</i> , 2017, 23, 3281-3291.	9.5	38
50	Greater temperature sensitivity of plant phenology at colder sites: implications for convergence across northern latitudes. <i>Global Change Biology</i> , 2017, 23, 2660-2671.	9.5	171
51	Trait covariance: the functional warp of plant diversity?. <i>New Phytologist</i> , 2017, 216, 976-980.	7.3	22
52	Background invertebrate herbivory on dwarf birch (<i>Betula glandulosa-nana</i> complex) increases with temperature and precipitation across the tundra biome. <i>Polar Biology</i> , 2017, 40, 2265-2278.	1.2	47
53	Estimates of local biodiversity change over time stand up to scrutiny. <i>Ecology</i> , 2017, 98, 583-590.	3.2	106
54	Shrub growth and expansion in the Arctic tundra: an assessment of controlling factors using an evidence-based approach. <i>Environmental Research Letters</i> , 2017, 12, 085007.	5.2	101

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55	Transitions in Arctic ecosystems: Ecological implications of a changing hydrological regime. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 650-674.	3.0	167
56	Vegetation composition and shrub extent on the Yukon coast, Canada, are strongly linked to ice-wedge polygon degradation. <i>Polar Research</i> , 2016, 35, 27489.	1.6	33
57	Temperature-induced recruitment pulses of Arctic dwarf shrub communities. <i>Journal of Ecology</i> , 2015, 103, 489-501.	4.0	90
58	Experiment, monitoring, and gradient methods used to infer climate change effects on plant communities yield consistent patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 448-452.	7.1	200
59	Climate sensitivity of shrub growth across the tundra biome. <i>Nature Climate Change</i> , 2015, 5, 887-891.	18.8	447
60	Methods for measuring arctic and alpine shrub growth: A review. <i>Earth-Science Reviews</i> , 2015, 140, 1-13.	9.1	112
61	A synthesis of methane emissions from 71 northern, temperate, and subtropical wetlands. <i>Global Change Biology</i> , 2014, 20, 2183-2197.	9.5	389
62	Assessing the relative importance of neutral stochasticity in ecological communities. <i>Oikos</i> , 2014, 123, 1420-1430.	2.7	310
63	Global meta-analysis reveals no net change in local-scale plant biodiversity over time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19456-19459.	7.1	464
64	Historical ecology: Using unconventional data sources to test for effects of global environmental change. <i>American Journal of Botany</i> , 2013, 100, 1294-1305.	1.7	143
65	Recent dynamics of arctic and sub-arctic vegetation. <i>Environmental Research Letters</i> , 2013, 8, 015040.	5.2	62
66	Shrub canopies influence soil temperatures but not nutrient dynamics: An experimental test of tundra snow-shrub interactions. <i>Ecology and Evolution</i> , 2013, 3, 3683-3700.	1.9	142
67	An Early-Career Scientist's Guide to Delving Into Data Synthesis. <i>Bulletin of the Ecological Society of America</i> , 2013, 94, 265-272.	0.2	0
68	Uniform female-biased sex ratios in alpine willows. <i>American Journal of Botany</i> , 2012, 99, 1243-1248.	1.7	24
69	Resilience: Easy to use but hard to define. <i>Ideas in Ecology and Evolution</i> , 2012, 5, .	0.1	20
70	Plot-scale evidence of tundra vegetation change and links to recent summer warming. <i>Nature Climate Change</i> , 2012, 2, 453-457.	18.8	745
71	Global assessment of experimental climate warming on tundra vegetation: heterogeneity over space and time. <i>Ecology Letters</i> , 2012, 15, 164-175.	6.4	764
72	Shrub expansion in tundra ecosystems: dynamics, impacts and research priorities. <i>Environmental Research Letters</i> , 2011, 6, 045509.	5.2	1,021

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73	Expansion of Canopy-Forming Willows Over the Twentieth Century on Herschel Island, Yukon Territory, Canada. <i>Ambio</i> , 2011, 40, 610-623.	5.5	91
74	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.	5.5	98
75	Reply to comment on Kane <i>et al</i> . 2008. Precipitation control over inorganic nitrogen import-export budgets across watersheds: a synthesis of long-term ecological research. <i>Ecohydrology</i> 1: 105-117. <i>Ecohydrology</i> , 2010, 3, 370-372.	2.4	0
76	Shrub Line Advance in Alpine Tundra of the Kluane Region: Mechanisms of Expansion and Ecosystem Impacts. <i>Arctic</i> , 2009, 60, .	0.4	5
77	Precipitation control over inorganic nitrogen import-export budgets across watersheds: a synthesis of long-term ecological research. <i>Ecohydrology</i> , 2008, 1, 105-117.	2.4	26
78	Changing climate sensitivity of black spruce (<i>Picea mariana</i> Mill.) in a peatland-forest landscape in Interior Alaska. <i>Dendrochronologia</i> , 2008, 25, 167-175.	2.2	55
79	Wetland succession in a permafrost collapse: interactions between fire and thermokarst. <i>Biogeosciences</i> , 2008, 5, 1273-1286.	3.3	70
80	Influence of disturbance on carbon exchange in a permafrost collapse and adjacent burned forest. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	29
81	Tips for Effective Communication in Ecology. <i>Bulletin of the Ecological Society of America</i> , 2007, 88, 206-215.	0.2	0
82	Cumulative impacts on Alaskan arctic tundra of a quarter century of road dust. <i>Ecoscience</i> , 2006, 13, 503-510.	1.4	33
83	HOW DO BROWN-HEADED COWBIRDS (<i>MOLOTHRUS ATER</i>) CAUSE NEST FAILURES IN SONG SPARROWS (<i>MELOSPIZA MELODIA</i>)? A REMOVAL EXPERIMENT. <i>Auk</i> , 2003, 120, 772.	1.4	22