

Michelle Cailin Mack

List of Publications by Year in Descending Order

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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.

80
papers

6,081
citations

37
h-index

77
g-index

82
ext. papers

7,391
ext. citations

7.1
avg, IF

5.8
L-index

#	Paper	IF	Citations
80	Increasing fire and the decline of fire adapted black spruce in the boreal forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	18
79	Impacts of pre-fire conifer density and wildfire severity on ecosystem structure and function at the forest-tundra ecotone. <i>PLoS ONE</i> , 2021 , 16, e0258558	3.7	2
78	Arctic tundra shrubification: a review of mechanisms and impacts on ecosystem carbon balance. <i>Environmental Research Letters</i> , 2021 , 16, 053001	6.2	25
77	Carbon loss from boreal forest wildfires offset by increased dominance of deciduous trees. <i>Science</i> , 2021 , 372, 280-283	33.3	33
76	Understory plant diversity and composition across a postfire tree density gradient in a Siberian Arctic boreal forest. <i>Canadian Journal of Forest Research</i> , 2021 , 51, 720-731	1.9	2
75	Historic declines in growth portend trembling aspen death during a contemporary leaf miner outbreak in Alaska. <i>Ecosphere</i> , 2021 , 12, e03569	3.1	1
74	Host Identity as a Driver of Moss-Associated N ₂ Fixation Rates in Alaska. <i>Ecosystems</i> , 2021 , 24, 530-547	3.9	11
73	Does fire always accelerate shrub expansion in Arctic tundra? Examining a novel grass-dominated successional trajectory on the Seward Peninsula. <i>Arctic, Antarctic, and Alpine Research</i> , 2021 , 53, 93-109	1.8	1
72	The relationship of C and N stable isotopes to high-latitude moss-associated N fixation. <i>Oecologia</i> , 2021 , 197, 283-295	2.9	0
71	Direct and longer-term carbon emissions from arctic-boreal fires: A short review of recent advances. <i>Current Opinion in Environmental Science and Health</i> , 2021 , 23, 100277	8.1	9
70	Wildfire combustion and carbon stocks in the southern Canadian boreal forest: Implications for a warming world. <i>Global Change Biology</i> , 2020 , 26, 6062-6079	11.4	20
69	Limited overall impacts of ectomycorrhizal inoculation on recruitment of boreal trees into Arctic tundra following wildfire belie species-specific responses. <i>PLoS ONE</i> , 2020 , 15, e0235932	3.7	1
68	Frequent burning causes large losses of carbon from deep soil layers in a temperate savanna. <i>Journal of Ecology</i> , 2020 , 108, 1426-1441	6	14
67	Patterns of Ecosystem Structure and Wildfire Carbon Combustion Across Six Ecoregions of the North American Boreal Forest. <i>Frontiers in Forests and Global Change</i> , 2020 , 3,	3.7	8
66	Mycobiont contribution to tundra plant acquisition of permafrost-derived nitrogen. <i>New Phytologist</i> , 2020 , 226, 126-141	9.8	17
65	Broadleaf Litter Controls Feather Moss Growth in Black Spruce and Birch Forests of Interior Alaska. <i>Ecosystems</i> , 2020 , 23, 18-33	3.9	5
64	Experimental assessment of tree canopy and leaf litter controls on the microbiome and nitrogen fixation rates of two boreal mosses. <i>New Phytologist</i> , 2020 , 227, 1335-1349	9.8	17

63	Impacts of climate and insect herbivory on productivity and physiology of trembling aspen (<i>Populus tremuloides</i>) in Alaskan boreal forests. <i>Environmental Research Letters</i> , 2019 , 14, 085010	6.2	13
62	Increasing wildfires threaten historic carbon sink of boreal forest soils. <i>Nature</i> , 2019 , 572, 520-523	50.4	152
61	Tree density influences ecohydrological drivers of plant-water relations in a larch boreal forest in Siberia. <i>Ecohydrology</i> , 2019 , 12, e2132	2.5	4
60	Importance of tree- and species-level interactions with wildfire, climate, and soils in interior Alaska: Implications for forest change under a warming climate. <i>Ecological Modelling</i> , 2019 , 409, 108765	3	20
59	Cross-scale controls on carbon emissions from boreal forest megafires. <i>Global Change Biology</i> , 2018 , 24, 4251-4265	11.4	34
58	Impacts of increased soil burn severity on larch forest regeneration on permafrost soils of far northeastern Siberia. <i>Forest Ecology and Management</i> , 2018 , 417, 144-153	3.9	22
57	Nutrient limitation of plant productivity in scrubby flatwoods: does fire shift nitrogen versus phosphorus limitation?. <i>Plant Ecology</i> , 2018 , 219, 1063-1079	1.7	8
56	Adding Depth to Our Understanding of Nitrogen Dynamics in Permafrost Soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 2497-2512	3.7	40
55	Novel bacterial lineages associated with boreal moss species. <i>Environmental Microbiology</i> , 2018 , 20, 2625-2638	5.46	46
54	Spatial and temporal variation in moss-associated dinitrogen fixation in coniferous- and deciduous-dominated Alaskan boreal forests. <i>Plant Ecology</i> , 2018 , 219, 837-851	1.7	10
53	Ecological Response to Permafrost Thaw and Consequences for Local and Global Ecosystem Services. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2018 , 49, 279-301	13.5	68
52	Soil organic layer combustion in boreal black spruce and jack pine stands of the Northwest Territories, Canada. <i>International Journal of Wildland Fire</i> , 2018 , 27, 125	3.2	30
51	Gap regeneration within mature deciduous forests of Interior Alaska: Implications for future forest change. <i>Forest Ecology and Management</i> , 2017 , 396, 35-43	3.9	8
50	Patterns of bryophyte succession in a 160-year chronosequence in deciduous and coniferous forests of boreal Alaska. <i>Canadian Journal of Forest Research</i> , 2017 , 47, 1021-1032	1.9	18
49	Predicting Ecosystem Resilience to Fire from Tree Ring Analysis in Black Spruce Forests. <i>Ecosystems</i> , 2017 , 20, 1137-1150	3.9	13
48	Losing Legacies, Ecological Release, and Transient Responses: Key Challenges for the Future of Northern Ecosystem Science. <i>Ecosystems</i> , 2017 , 20, 23-30	3.9	16
47	A Canopy Shift in Interior Alaskan Boreal Forests: Consequences for Above- and Belowground Carbon and Nitrogen Pools during Post-fire Succession. <i>Ecosystems</i> , 2016 , 19, 98-114	3.9	37
46	Nitrogen availability increases in a tundra ecosystem during five years of experimental permafrost thaw. <i>Global Change Biology</i> , 2016 , 22, 1927-41	11.4	108

45	Going where no grains have gone before: From early to mid-succession. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 223, 223-238	5.7	80
44	Changing disturbance regimes, ecological memory, and forest resilience. <i>Frontiers in Ecology and the Environment</i> , 2016 , 14, 369-378	5.5	635
43	Stable carbon isotope analysis reveals widespread drought stress in boreal black spruce forests. <i>Global Change Biology</i> , 2015 , 21, 3102-13	11.4	81
42	Spatially explicit estimation of aboveground boreal forest biomass in the Yukon River Basin, Alaska. <i>International Journal of Remote Sensing</i> , 2015 , 36, 939-953	3.1	6
41	Differences in Ecosystem Carbon Distribution and Nutrient Cycling Linked to Forest Tree Species Composition in a Mid-Successional Boreal Forest. <i>Ecosystems</i> , 2015 , 18, 1472-1488	3.9	26
40	Biomass allometry for alder, dwarf birch, and willow in boreal forest and tundra ecosystems of far northeastern Siberia and north-central Alaska. <i>Forest Ecology and Management</i> , 2015 , 337, 110-118	3.9	40
39	Convergence of soil nitrogen isotopes across global climate gradients. <i>Scientific Reports</i> , 2015 , 5, 8280	4.9	90
38	Do foliar, litter, and root nitrogen and phosphorus concentrations reflect nutrient limitation in a lowland tropical wet forest?. <i>PLoS ONE</i> , 2015 , 10, e0123796	3.7	20
37	Functional attributes of savanna soils: contrasting effects of tree canopies and herbivores on bulk density, nutrients and moisture dynamics. <i>Journal of Ecology</i> , 2014 , 102, 1171-1182	6	23
36	Effects of arctic shrub expansion on biophysical vs. biogeochemical drivers of litter decomposition. <i>Ecology</i> , 2014 , 95, 1861-75	4.6	66
35	Pyrogeography, historical ecology, and the human dimensions of fire regimes. <i>Journal of Biogeography</i> , 2014 , 41, 833-836	4.1	33
34	Long-term experimental warming and nutrient additions increase productivity in tall deciduous shrub tundra. <i>Ecosphere</i> , 2014 , 5, art72	3.1	52
33	Leaf litter inputs decrease phosphate sorption in a strongly weathered tropical soil over two time scales. <i>Biogeochemistry</i> , 2013 , 113, 507-524	3.8	22
32	The response of Arctic vegetation and soils following an unusually severe tundra fire. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013 , 368, 20120490	5.8	89
31	Tree canopies explain fire effects on soil nitrogen, phosphorus and carbon in a savanna ecosystem. <i>Journal of Vegetation Science</i> , 2012 , 23, 352-360	3.1	20
30	Nitrogen Isotope Patterns in Alaskan Black Spruce Reflect Organic Nitrogen Sources and the Activity of Ectomycorrhizal Fungi. <i>Ecosystems</i> , 2012 , 15, 819-831	3.9	31
29	Carbon Accumulation Patterns During Post-Fire Succession in Cajander Larch (<i>Larix cajanderi</i>) Forests of Siberia. <i>Ecosystems</i> , 2012 , 15, 1065-1082	3.9	46
28	Short-term effects of elevated precipitation and nitrogen on soil fertility and plant growth in a Neotropical savanna. <i>Ecosphere</i> , 2012 , 3, art31	3.1	12

27	Implications of increased deciduous cover on stand structure and aboveground carbon pools of Alaskan boreal forests. <i>Ecosphere</i> , 2012 , 3, art45	3.1	49
26	Scoping Completed for an Experiment to Assess Vulnerability of Arctic and Boreal Ecosystems. <i>Eos</i> , 2011 , 92, 150-151	1.5	10
25	Carbon loss from an unprecedented Arctic tundra wildfire. <i>Nature</i> , 2011 , 475, 489-92	50.4	293
24	The impacts and implications of an intensifying fire regime on Alaskan boreal forest composition and albedo. <i>Global Change Biology</i> , 2011 , 17, 2853-2866	11.4	125
23	Influence of Precipitation on Soil and Foliar Nutrients Across Nine Costa Rican Forests. <i>Biotropica</i> , 2011 , 43, 433-441	2.3	23
22	The Effects of Snow, Soil Microenvironment, and Soil Organic Matter Quality on N Availability in Three Alaskan Arctic Plant Communities. <i>Ecosystems</i> , 2011 , 14, 804-817	3.9	64
21	Changes in fire regime break the legacy lock on successional trajectories in Alaskan boreal forest. <i>Global Change Biology</i> , 2010 , 16, 1281-1295	11.4	377
20	A dynamic organic soil biogeochemical model for simulating the effects of wildfire on soil environmental conditions and carbon dynamics of black spruce forests. <i>Journal of Geophysical Research</i> , 2010 , 115,		53
19	Quantifying fire severity, carbon, and nitrogen emissions in Alaskan boreal forest 2010 , 20, 1633-47		117
18	Fire, climate change, and forest resilience in interior Alaska This article is one of a selection of papers from The Dynamics of Change in Alaskan Boreal Forests: Resilience and Vulnerability in Response to Climate Warming.. <i>Canadian Journal of Forest Research</i> , 2010 , 40, 1302-1312	1.9	242
17	Short-term effects of fire on soil and plant nutrients in palmetto flatwoods. <i>Plant and Soil</i> , 2010 , 334, 433-447	4.2	42
16	Postfire seed rain of black spruce, a semiserotinous conifer, in forests of interior Alaska. <i>Canadian Journal of Forest Research</i> , 2009 , 39, 1575-1588	1.9	30
15	The influence of tree species on canopy soil nutrient status in a tropical lowland wet forest in Costa Rica. <i>Plant and Soil</i> , 2009 , 318, 47-61	4.2	44
14	Global patterns of foliar nitrogen isotopes and their relationships with climate, mycorrhizal fungi, foliar nutrient concentrations, and nitrogen availability. <i>New Phytologist</i> , 2009 , 183, 980-992	9.8	606
13	Ants mediate nitrogen relations of an epiphytic fern. <i>New Phytologist</i> , 2008 , 180, 5-8	9.8	18
12	Carbon allocation in boreal black spruce forests across regions varying in soil temperature and precipitation. <i>Global Change Biology</i> , 2008 , 14, 1503-1516	11.4	57
11	Nutrient Addition Prompts Rapid Destabilization of Organic Matter in an Arctic Tundra Ecosystem. <i>Ecosystems</i> , 2008 , 11, 16-25	3.9	58
10	Recovery of Aboveground Plant Biomass and Productivity After Fire in Mesic and Dry Black Spruce Forests of Interior Alaska. <i>Ecosystems</i> , 2008 , 11, 209-225	3.9	102

9	Mycorrhizal responses to nitrogen fertilization in boreal ecosystems: potential consequences for soil carbon storage. <i>Global Change Biology</i> , 2007 , 13, 78-88	11.4	71
8	Ecological and evolutionary consequences of desiccation tolerance in tropical fern gametophytes. <i>New Phytologist</i> , 2007 , 176, 708-717	9.8	130
7	Plant Species Composition and Productivity following Permafrost Thaw and Thermokarst in Alaskan Tundra. <i>Ecosystems</i> , 2007 , 10, 280-292	3.9	183
6	Nutrient Limitation in a Fire-derived, Nitrogen-rich Hawaiian Grassland ¹ . <i>Biotropica</i> , 2006 , 38, 458-467	2.3	23
5	Postfire Soil N Cycling in Northern Conifer Forests Affected by Severe, Stand-Replacing Wildfires. <i>Ecosystems</i> , 2005 , 8, 163-181	3.9	139
4	Spatial Heterogeneity and Soil Nitrogen Dynamics in a Burned Black Spruce Forest Stand: Distinct Controls at Different Scales. <i>Biogeochemistry</i> , 2005 , 76, 517-537	3.8	42
3	RELATIONSHIPS AMONG FIRES, FUNGI, AND SOIL DYNAMICS IN ALASKAN BOREAL FORESTS 2004 , 14, 1826-1838		153
2	Ecosystem carbon storage in arctic tundra reduced by long-term nutrient fertilization. <i>Nature</i> , 2004 , 431, 440-3	50.4	758
1	Isotopic composition of carbon dioxide from a boreal forest fire: Inferring carbon loss from measurements and modeling. <i>Global Biogeochemical Cycles</i> , 2003 , 17, 1-1-1-9	5.9	69