

Marie-Charlotte Nilsson

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.

120
papers

7,883
citations

45
h-index

87
g-index

126
ext. papers

8,839
ext. citations

5.9
avg, IF

5.95
L-index

#	Paper	IF	Citations
120	Long-term fate of nitrogen fixation in <i>Pleurozium schreberi</i> Brid (Mit.) moss carpets in boreal forests. <i>Applied Soil Ecology</i> , 2022 , 169, 104215	5	3
119	Biochar increases tree biomass in a managed boreal forest, but does not alter N ₂ O, CH ₄ , and CO ₂ emissions. <i>GCB Bioenergy</i> , 2021 , 13, 1329-1342	5.6	3
118	Boreal forest soil carbon fluxes one year after a wildfire: Effects of burn severity and management. <i>Global Change Biology</i> , 2021 , 27, 4181-4195	11.4	3
117	Soil biotic and abiotic effects on seedling growth exhibit context-dependent interactions: evidence from a multi-country experiment on <i>Pinus contorta</i> invasion. <i>New Phytologist</i> , 2021 , 232, 303-317	9.8	3
116	Crown-fire severity is more important than ground-fire severity in determining soil fungal community development in the boreal forest. <i>Journal of Ecology</i> , 2021 , 109, 504-518	6	11
115	Precipitation regime controls bryosphere carbon cycling similarly across contrasting ecosystems. <i>Oikos</i> , 2021 , 130, 512-524	4	1
114	Sphagnum and feather moss-associated N ₂ fixation along a 724-year chronosequence in eastern boreal Canada. <i>Plant Ecology</i> , 2021 , 222, 1007-1022	1.7	0
113	Empirical and Earth system model estimates of boreal nitrogen fixation often differ: A pathway toward reconciliation. <i>Global Change Biology</i> , 2021 , 27, 5711-5725	11.4	2
112	Mosses modify effects of warmer and wetter conditions on tree seedlings at the alpine treeline. <i>Global Change Biology</i> , 2020 , 26, 5754-5766	11.4	4
111	Impact of plant functional group and species removals on soil and plant nitrogen and phosphorus across a retrogressive chronosequence. <i>Journal of Ecology</i> , 2020 , 108, 561-573	6	3
110	Quantification of tree fine roots by real-time PCR. <i>Plant and Soil</i> , 2019 , 440, 593-600	4.2	3
109	Effects of plant functional group removal on structure and function of soil communities across contrasting ecosystems. <i>Ecology Letters</i> , 2019 , 22, 1095-1103	10	32
108	Comparison of plant-soil feedback experimental approaches for testing soil biotic interactions among ecosystems. <i>New Phytologist</i> , 2019 , 221, 577-587	9.8	32
107	Disentangling Effects of Time Since Fire, Overstory Composition and Organic Layer Thickness on Nutrient Availability in Canadian Boreal Forest. <i>Ecosystems</i> , 2019 , 22, 33-48	3.9	7
106	The ratio of Gram-positive to Gram-negative bacterial PLFA markers as an indicator of carbon availability in organic soils. <i>Soil Biology and Biochemistry</i> , 2019 , 128, 111-114	7.5	122
105	Consistent effects of biodiversity loss on multifunctionality across contrasting ecosystems. <i>Nature Ecology and Evolution</i> , 2018 , 2, 269-278	12.3	62
104	The role of bryophytes for tree seedling responses to winter climate change: Implications for the stress gradient hypothesis. <i>Journal of Ecology</i> , 2018 , 106, 1142-1155	6	8

103	Decomposition rates of surface and buried forest-floor material. <i>Canadian Journal of Forest Research</i> , 2017 , 47, 1140-1144	1.9	10
102	Bryophyte traits explain climate-warming effects on tree seedling establishment. <i>Journal of Ecology</i> , 2017 , 105, 496-506	6	18
101	Symplasmic and apoplasmic transport inside feather moss stems of <i>Pleurozium schreberi</i> and <i>Hylocomium splendens</i> . <i>Annals of Botany</i> , 2017 , 120, 805-817	4.1	12
100	Differences in endophyte communities of introduced trees depend on the phylogenetic relatedness of the receiving forest. <i>Journal of Ecology</i> , 2016 , 104, 1219-1232	6	32
99	Seedling responses to changes in canopy and soil properties during stand development following clear-cutting. <i>Forest Ecology and Management</i> , 2016 , 378, 31-43	3.9	4
98	Soil fertility and charcoal as determinants of growth and allocation of secondary plant metabolites in seedlings of European beech and Norway spruce. <i>Environmental and Experimental Botany</i> , 2016 , 131, 39-46	5.9	5
97	The impact of charcoal and soil mixtures on decomposition and soil microbial communities in boreal forest. <i>Applied Soil Ecology</i> , 2016 , 99, 40-50	5	16
96	Seasonal variation in nifH abundance and expression of cyanobacterial communities associated with boreal feather mosses. <i>ISME Journal</i> , 2016 , 10, 2198-208	11.9	45
95	Contrasting Responses of Soil Microbial and Nematode Communities to Warming and Plant Functional Group Removal Across a Post-fire Boreal Forest Successional Gradient. <i>Ecosystems</i> , 2016 , 19, 339-355	3.9	38
94	The effect of biochar management on soil and plant community properties in a boreal forest. <i>GCB Bioenergy</i> , 2016 , 8, 777-789	5.6	33
93	Shifts in Aboveground Biomass Allocation Patterns of Dominant Shrub Species across a Strong Environmental Gradient. <i>PLoS ONE</i> , 2016 , 11, e0157136	3.7	6
92	Trophic cascades in the bryosphere: the impact of global change factors on top-down control of cyanobacterial N ₂ -fixation. <i>Ecology Letters</i> , 2016 , 19, 967-76	10	23
91	Understory plant functional groups and litter species identity are stronger drivers of litter decomposition than warming along a boreal forest post-fire successional gradient. <i>Soil Biology and Biochemistry</i> , 2016 , 98, 159-170	7.5	40
90	Nitrogen fixation rates associated with the feather mosses <i>Pleurozium schreberi</i> and <i>Hylocomium splendens</i> during forest stand development following clear-cutting. <i>Forest Ecology and Management</i> , 2015 , 347, 130-139	3.9	20
89	Direct and Indirect Drivers of Moss Community Structure, Function, and Associated Microfauna Across a Successional Gradient. <i>Ecosystems</i> , 2015 , 18, 154-169	3.9	29
88	Influence of species identity and charring conditions on fire-derived charcoal traits. <i>Canadian Journal of Forest Research</i> , 2015 , 45, 1669-1675	1.9	5
87	Impact of understory mosses and dwarf shrubs on soil micro-arthropods in a boreal forest chronosequence. <i>Plant and Soil</i> , 2014 , 379, 121-133	4.2	30
86	Stimulation of boreal tree seedling growth by wood-derived charcoal: effects of charcoal properties, seedling species and soil fertility. <i>Functional Ecology</i> , 2014 , 28, 766-775	5.6	44

85	Interactions with soil biota shift from negative to positive when a tree species is moved outside its native range. <i>New Phytologist</i> , 2014 , 202, 415-421	9.8	81
84	The Impact of Moss Species and Biomass on the Growth of <i>Pinus sylvestris</i> Tree Seedlings at Different Precipitation Frequencies. <i>Forests</i> , 2014 , 5, 1931-1951	2.8	21
83	The interactive effects of surface-burn severity and canopy cover on conifer and broadleaf tree seedling ecophysiology. <i>Canadian Journal of Forest Research</i> , 2014 , 44, 1032-1041	1.9	4
82	Changes in local-scale intraspecific trait variability of dominant species across contrasting island ecosystems. <i>Ecosphere</i> , 2014 , 5, art26	3.1	14
81	Changes in stable nitrogen and carbon isotope ratios of plants and soil across a boreal forest fire chronosequence. <i>Plant and Soil</i> , 2013 , 367, 111-119	4.2	20
80	Decoupled responses of tree and shrub leaf and litter trait values to ecosystem retrogression across an island area gradient. <i>Plant and Soil</i> , 2013 , 367, 183-197	4.2	29
79	The effects of the moss layer on the decomposition of intercepted vascular plant litter across a post-fire boreal forest chronosequence. <i>Plant and Soil</i> , 2013 , 367, 199-214	4.2	17
78	Boreal feather mosses secrete chemical signals to gain nitrogen. <i>New Phytologist</i> , 2013 , 200, 54-60	9.8	62
77	Changes in stable nitrogen and carbon isotope ratios of plants and soil across a boreal forest fire chronosequence. <i>Plant and Soil</i> , 2013 , 364, 315-323	4.2	18
76	Decoupled long-term effects of nutrient enrichment on aboveground and belowground properties in subalpine tundra. <i>Ecology</i> , 2013 , 94, 904-919	4.6	50
75	The role of biotic interactions in shaping distributions and realised assemblages of species: implications for species distribution modelling. <i>Biological Reviews</i> , 2013 , 88, 15-30	13.5	931
74	Synergistic, additive and antagonistic impacts of drought and herbivory on <i>Pinus sylvestris</i> : leaf, tissue and whole-plant responses and recovery. <i>Tree Physiology</i> , 2013 , 33, 451-63	4.2	53
73	Bryophyte-cyanobacteria associations as regulators of the northern latitude carbon balance in response to global change. <i>Global Change Biology</i> , 2013 , 19, 2022-35	11.4	116
72	Nitrogen niches revealed through species and functional group removal in a boreal shrub community. <i>Ecology</i> , 2012 , 93, 1695-706	4.6	25
71	Response of photosynthetic carbon gain to ecosystem retrogression of vascular plants and mosses in the boreal forest. <i>Oecologia</i> , 2012 , 169, 661-72	2.9	15
70	Drivers of inter-year variability of plant production and decomposers across contrasting island ecosystems. <i>Ecology</i> , 2012 , 93, 521-31	4.6	13
69	The effect of altered macroclimate on N-fixation by boreal feather mosses. <i>Biology Letters</i> , 2012 , 8, 805-86	3.6	43
68	Long-term aboveground and belowground consequences of red wood ant exclusion in boreal forest. <i>Ecology</i> , 2011 , 92, 645-56	4.6	49

67	Composition and diversity of nifH genes of nitrogen-fixing cyanobacteria associated with boreal forest feather mosses. <i>New Phytologist</i> , 2011 , 192, 507-17	9.8	60
66	Resource heterogeneity does not explain the diversity-productivity relationship across a boreal island fertility gradient. <i>Ecography</i> , 2011 , 34, 887-896	6.5	34
65	Response of feather moss associated N ₂ fixation and litter decomposition to variations in simulated rainfall intensity and frequency. <i>Oikos</i> , 2011 , 120, 570-581	4	48
64	Vascular plant removal effects on biological N fixation vary across a boreal forest island gradient. <i>Ecology</i> , 2010 , 91, 1704-14	4.6	38
63	Variation in protein complexation capacity among and within six plant species across a boreal forest chronosequence. <i>Plant Ecology</i> , 2010 , 211, 253-266	1.7	13
62	The sensitivity of nitrogen fixation by a feathermoss-cyanobacteria association to litter and moisture variability in young and old boreal forests. <i>Canadian Journal of Forest Research</i> , 2009 , 39, 2542-2549	1.9	51
61	Context dependent effects of plant species and functional group loss on vegetation invasibility across an island area gradient. <i>Journal of Ecology</i> , 2008 , 96, 1174-1186	6	39
60	Belowground and aboveground consequences of interactions between live plant species mixtures and dead organic substrate mixtures. <i>Oikos</i> , 2008 , 117, 439-449	4	30
59	Ecosystem feedbacks and nitrogen fixation in boreal forests. <i>Science</i> , 2008 , 320, 1181	33.3	136
58	Fire-derived charcoal causes loss of forest humus. <i>Science</i> , 2008 , 320, 629	33.3	431
57	Ecosystem input of nitrogen through biological fixation in feather mosses during ecosystem retrogression. <i>Functional Ecology</i> , 2007 , 21, 1027-1033	5.6	80
56	An ecosystem-level perspective of allelopathy. <i>Biological Reviews</i> , 2007 , 73, 305-319	13.5	21
55	Ecosystem controls on nitrogen fixation in boreal feather moss communities. <i>Oecologia</i> , 2007 , 152, 121-130	30	79
54	Changes in the ratio of twig to foliage in litterfall with species composition, and consequences for decomposition across a long term chronosequence. <i>Oikos</i> , 2006 , 115, 453-462	4	22
53	Aboveground and belowground responses to quality and heterogeneity of organic inputs to the boreal forest. <i>Oecologia</i> , 2006 , 150, 108-18	2.9	19
52	Effects of long-term alleviation of nutrient limitation on shoot growth and foliar phenolics of <i>Empetrum hermaphroditum</i> . <i>Oikos</i> , 2005 , 111, 445-458	4	13
51	Behaviour and recovery of the secondary metabolite batatasin-III from boreal forest humus: influence of temperature, humus type and microbial community. <i>Biochemical Systematics and Ecology</i> , 2005 , 33, 385-407	1.4	13
50	Adsorption of allelopathic compounds by wood-derived charcoal: the role of wood porosity. <i>Plant and Soil</i> , 2005 , 272, 291-300	4.2	81

49	Physiological and molecular diversity of feather moss associative N2-fixing cyanobacteria. <i>Journal of Experimental Botany</i> , 2005 , 56, 3121-7	7	65
48	Understorey vegetation as a forest ecosystem driver: evidence from the northern Swedish boreal forest. <i>Frontiers in Ecology and the Environment</i> , 2005 , 3, 421-428	5.5	519
47	Understorey vegetation as a forest ecosystem driver: evidence from the northern Swedish boreal forest 2005 , 3, 421		5
46	Potential toxic effect on aquatic fauna by the dwarf shrub <i>Empetrum hermaphroditum</i> . <i>Journal of Chemical Ecology</i> , 2004 , 30, 215-27	2.7	7
45	Environmental manipulation treatment effects on the reactivity of water-soluble phenolics in a subalpine tundra ecosystem. <i>Plant and Soil</i> , 2004 , 259, 355-365	4.2	15
44	Effects of shading and humus fertility on growth, competition, and ectomycorrhizal colonization of boreal forest tree seedlings. <i>Canadian Journal of Forest Research</i> , 2004 , 34, 2573-2586	1.9	30
43	NITROGEN FIXATION INCREASES WITH SUCCESSIONAL AGE IN BOREAL FORESTS. <i>Ecology</i> , 2004 , 85, 3327-3334	4.6	144
42	Island Population Structure of Norway Spruce (<i>Picea abies</i>) in Northern Sweden. <i>International Journal of Plant Sciences</i> , 2003 , 164, 711-717	2.6	9
41	Determinants of litter mixing effects in a Swedish boreal forest. <i>Soil Biology and Biochemistry</i> , 2003 , 35, 827-835	7.5	155
40	Nitrogen mineralization and phenol accumulation along a fire chronosequence in northern Sweden. <i>Oecologia</i> , 2002 , 133, 206-214	2.9	182
39	Effects of alleviation of ecological stresses on an alpine tundra community over an eight-year period. <i>Oikos</i> , 2002 , 97, 3-17	4	80
38	Quantifying nitrogen-fixation in feather moss carpets of boreal forests. <i>Nature</i> , 2002 , 419, 917-20	50.4	381
37	Establishment and genetic structure of <i>Empetrum hermaphroditum</i> populations in northern Sweden. <i>Journal of Vegetation Science</i> , 2002 , 13, 627-634	3.1	17
36	Mechanisms of interaction between <i>Kalmia angustifolia</i> cover and <i>Picea mariana</i> seedlings. <i>Canadian Journal of Forest Research</i> , 2002 , 32, 2022-2031	1.9	27
35	Establishment and genetic structure of <i>Empetrum hermaphroditum</i> populations in northern Sweden. <i>Journal of Vegetation Science</i> , 2002 , 13, 627	3.1	4
34	The inhibition of ammonium uptake in excised birch (<i>Betula pendula</i>) roots by batatasin-III. <i>Physiologia Plantarum</i> , 2001 , 113, 368-376	4.6	10
33	Context dependent effects of ectomycorrhizal species richness on tree seedling productivity. <i>Oikos</i> , 2001 , 93, 353-364	4	195
32	Control of heather (<i>Calluna vulgaris</i> (L.) Hull) by steam treatment: Effects on establishment and early growth of Scots pine. <i>New Forests</i> , 2001 , 21, 187-198	2.6	10

31	A Link in the Study of Chemical Interference Exerted by Empetrum hermaphroditum: Quantification of Batatasin-III in Soil Solution. <i>Journal of Chemical Ecology</i> , 2000 , 26, 1311-1323	2.7	14
30	Characterisation of the differential interference effects of two boreal dwarf shrub species. <i>Oecologia</i> , 2000 , 123, 122-128	2.9	63
29	Nordic Empetrum Dominated Ecosystems: Function and Susceptibility to Environmental Changes. <i>Ambio</i> , 2000 , 29, 90-97	6.5	90
28	Nutritional Effects of Seed Fall during Mast Years in Boreal Forest. <i>Oikos</i> , 1999 , 84, 17	4	23
27	Continuity of ectomycorrhizal fungi in self-regenerating boreal Pinus sylvestris forests studied by comparing mycobiont diversity on seedlings and mature trees. <i>New Phytologist</i> , 1999 , 142, 151-162	9.8	129
26	Ectomycorrhizal fungal communities in late-successional Swedish boreal forests, and their composition following wildfire. <i>Molecular Ecology</i> , 1999 , 8, 205-215	5.7	185
25	Phenolic metabolites of ecological significance in Empetrum hermaphroditum leaves and associated humus. <i>Plant and Soil</i> , 1999 , 210, 1-9	4.2	40
24	Effects of Plant Litter Species Composition and Diversity on the Boreal Forest Plant-Soil System. <i>Oikos</i> , 1999 , 86, 16	4	83
23	The charcoal effect in Boreal forests: mechanisms and ecological consequences. <i>Oecologia</i> , 1998 , 115, 419-426	2.9	228
22	A bibenzyl from Empetrum nigrum. <i>Phytochemistry</i> , 1998 , 48, 893-896	4	24
21	Control of bilberry vegetation by steam treatment [Effects on seeded Scots pine and associated mycorrhizal fungi. <i>Forest Ecology and Management</i> , 1998 , 108, 275-285	3.9	21
20	The Forest Regeneration Puzzle. <i>BioScience</i> , 1998 , 48, 523-530	5.7	84
19	Experiments on the effects of water availability and exclusion of fungal hyphae on nutrient uptake and establishment of Pinus sylvestris seedlings in carpets of the moss Pleurozium schreberi. <i>Ecoscience</i> , 1998 , 5, 77-85	1.1	18
18	Temporal Variability of Phenolics and Batatasin-III in Empetrum hermaphroditum Leaves over an Eight-Year Period: Interpretations of Ecological Function. <i>Oikos</i> , 1998 , 81, 6	4	50
17	An ecosystem-level perspective of allelopathy. <i>Biological Reviews</i> , 1998 , 73, 305-319	13.5	221
16	Interference Mechanisms in Conifer-Ericaceae-Feathermoss Communities. <i>Oikos</i> , 1997 , 78, 209	4	87
15	Site preparation by steam treatment: effects on forest vegetation control and establishment, nutrition, and growth of seeded Scots pine. <i>Canadian Journal of Forest Research</i> , 1997 , 27, 315-322	1.9	14
14	A Method to Quantify the Allelopathic Compound Batatasin-III in Extracts From Empetrum hermaphroditum Using Gas Chromatography: Applied on Extracts From Leaves of Different Ages. <i>Journal of Chemical Ecology</i> , 1997 , 23, 2345-2355	2.7	17

13	Microbe-plant competition, allelopathy and arctic plants. <i>Oecologia</i> , 1997 , 109, 291-293	2.9	33
12	Key Ecological Function of Charcoal from Wildfire in the Boreal Forest. <i>Oikos</i> , 1996 , 77, 10	4	287
11	Time-restricted seed regeneration of Scots pine in sites dominated by feather moss after clear-cutting. <i>Canadian Journal of Forest Research</i> , 1996 , 26, 945-953	1.9	18
10	Effects of bilberry (<i>Vaccinium myrtillus</i> L.) litter on seed germination and early seedling growth of four boreal tree species. <i>Journal of Chemical Ecology</i> , 1996 , 22, 973-86	2.7	68
9	Regeneration Pulses and Climate-Vegetation Interactions in Nonpyrogenic Boreal Scots Pine Stands. <i>Journal of Ecology</i> , 1995 , 83, 469	6	94
8	Seed regeneration of Scots pine in boreal forest stands dominated by lichen and feather moss. <i>Canadian Journal of Forest Research</i> , 1995 , 25, 713-723	1.9	63
7	Seasonal variation in phytotoxicity of bracken (<i>Pteridium aquilinum</i> L. Kuhn). <i>Journal of Chemical Ecology</i> , 1994 , 20, 3163-72	2.7	32
6	Separation of allelopathy and resource competition by the boreal dwarf shrub <i>Empetrum hermaphroditum</i> Hagerup. <i>Oecologia</i> , 1994 , 98, 1-7	2.9	206
5	Allelopathic effects by <i>Empetrum hermaphroditum</i> on development and nitrogen uptake by roots and mycorrhizae of <i>Pinus silvestris</i> . <i>Canadian Journal of Botany</i> , 1993 , 71, 620-628		96
4	Isolation and characterization of a germination inhibitor from leaves of <i>Empetrum hermaphroditum</i> hagerup. <i>Scandinavian Journal of Forest Research</i> , 1992 , 7, 497-502	1.7	45
3	Allelopathic effects by <i>Empetrumhermaphroditum</i> on seed germination of two boreal tree species. <i>Canadian Journal of Forest Research</i> , 1992 , 22, 1310-1319	1.9	100
2	Inhibition of Scots pine seedling establishment by <i>Empetrum hermaphroditum</i> . <i>Journal of Chemical Ecology</i> , 1992 , 18, 1857-70	2.7	87
1	Effects of Soil Abiotic and Biotic Factors on Tree Seedling Regeneration Following a Boreal Forest Wildfire. <i>Ecosystems</i> ,1	3.9	1