

Marie-Charlotte Nilsson

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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	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
119	Understory 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
118	Fire-derived charcoal causes loss of forest humus. <i>Science</i> , 2008 , 320, 629	33.3	431
117	Quantifying nitrogen-fixation in feather moss carpets of boreal forests. <i>Nature</i> , 2002 , 419, 917-20	50.4	381
116	Key Ecological Function of Charcoal from Wildfire in the Boreal Forest. <i>Oikos</i> , 1996 , 77, 10	4	287
115	The charcoal effect in Boreal forests: mechanisms and ecological consequences. <i>Oecologia</i> , 1998 , 115, 419-426	2.9	228
114	An ecosystem-level perspective of allelopathy. <i>Biological Reviews</i> , 1998 , 73, 305-319	13.5	221
113	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
112	Context dependent effects of ectomycorrhizal species richness on tree seedling productivity. <i>Oikos</i> , 2001 , 93, 353-364	4	195
111	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
110	Nitrogen mineralization and phenol accumulation along a fire chronosequence in northern Sweden. <i>Oecologia</i> , 2002 , 133, 206-214	2.9	182
109	Determinants of litter mixing effects in a Swedish boreal forest. <i>Soil Biology and Biochemistry</i> , 2003 , 35, 827-835	7.5	155
108	NITROGEN FIXATION INCREASES WITH SUCCESSIONAL AGE IN BOREAL FORESTS. <i>Ecology</i> , 2004 , 85, 3327-3334	4.6	144
107	Ecosystem feedbacks and nitrogen fixation in boreal forests. <i>Science</i> , 2008 , 320, 1181	33.3	136
106	Continuity of ectomycorrhizal fungi in self-regenerating boreal <i>Pinus sylvestris</i> forests studied by comparing mycobiont diversity on seedlings and mature trees. <i>New Phytologist</i> , 1999 , 142, 151-162	9.8	129
105	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
104	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

103	Allelopathic effects by <i>Empetrum hermaphroditum</i> on seed germination of two boreal tree species. <i>Canadian Journal of Forest Research</i> , 1992 , 22, 1310-1319	1.9	100
102	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
101	Regeneration Pulses and Climate-Vegetation Interactions in Nonpyrogenic Boreal Scots Pine Stands. <i>Journal of Ecology</i> , 1995 , 83, 469	6	94
100	Nordic <i>Empetrum</i> Dominated Ecosystems: Function and Susceptibility to Environmental Changes. <i>Ambio</i> , 2000 , 29, 90-97	6.5	90
99	Interference Mechanisms in Conifer-Ericaceae-Feathermoss Communities. <i>Oikos</i> , 1997 , 78, 209	4	87
98	Inhibition of Scots pine seedling establishment by <i>Empetrum hermaphroditum</i> . <i>Journal of Chemical Ecology</i> , 1992 , 18, 1857-70	2.7	87
97	The Forest Regeneration Puzzle. <i>BioScience</i> , 1998 , 48, 523-530	5.7	84
96	Effects of Plant Litter Species Composition and Diversity on the Boreal Forest Plant-Soil System. <i>Oikos</i> , 1999 , 86, 16	4	83
95	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
94	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
93	Ecosystem input of nitrogen through biological fixation in feather mosses during ecosystem retrogression. <i>Functional Ecology</i> , 2007 , 21, 1027-1033	5.6	80
92	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
91	Ecosystem controls on nitrogen fixation in boreal feather moss communities. <i>Oecologia</i> , 2007 , 152, 121-130	3.9	79
90	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
89	Physiological and molecular diversity of feather moss associative N ₂ -fixing cyanobacteria. <i>Journal of Experimental Botany</i> , 2005 , 56, 3121-7	7	65
88	Characterisation of the differential interference effects of two boreal dwarf shrub species. <i>Oecologia</i> , 2000 , 123, 122-128	2.9	63
87	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
86	Consistent effects of biodiversity loss on multifunctionality across contrasting ecosystems. <i>Nature Ecology and Evolution</i> , 2018 , 2, 269-278	12.3	62

85	Boreal feather mosses secrete chemical signals to gain nitrogen. <i>New Phytologist</i> , 2013 , 200, 54-60	9.8	62
84	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
83	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
82	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	10.9	51
81	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
80	Temporal Variability of Phenolics and Batatasin-III in <i>Empetrum hermaphroditum</i> Leaves over an Eight-Year Period: Interpretations of Ecological Function. <i>Oikos</i> , 1998 , 81, 6	4	50
79	Long-term aboveground and belowground consequences of red wood ant exclusion in boreal forest. <i>Ecology</i> , 2011 , 92, 645-56	4.6	49
78	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
77	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
76	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
75	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
74	The effect of altered macroclimate on N-fixation by boreal feather mosses. <i>Biology Letters</i> , 2012 , 8, 805-86	3.6	43
73	Phenolic metabolites of ecological significance in <i>Empetrum hermaphroditum</i> leaves and associated humus. <i>Plant and Soil</i> , 1999 , 210, 1-9	4.2	40
72	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
71	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
70	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
69	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
68	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

67	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
66	Microbe-plant competition, allelopathy and arctic plants. <i>Oecologia</i> , 1997 , 109, 291-293	2.9	33
65	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
64	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
63	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
62	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
61	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
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	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
58	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
57	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
56	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
55	Nitrogen niches revealed through species and functional group removal in a boreal shrub community. <i>Ecology</i> , 2012 , 93, 1695-706	4.6	25
54	A bibenzyl from <i>Empetrum nigrum</i> . <i>Phytochemistry</i> , 1998 , 48, 893-896	4	24
53	Nutritional Effects of Seed Fall during Mast Years in Boreal Forest. <i>Oikos</i> , 1999 , 84, 17	4	23
52	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
51	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
50	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

49	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
48	An ecosystem-level perspective of allelopathy. <i>Biological Reviews</i> , 2007 , 73, 305-319	13.5	21
47	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
46	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
45	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
44	Bryophyte traits explain climate-warming effects on tree seedling establishment. <i>Journal of Ecology</i> , 2017 , 105, 496-506	6	18
43	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
42	Experiments on the effects of water availability and exclusion of fungal hyphae on nutrient uptake and establishment of <i>Pinus sylvestris</i> seedlings in carpets of the moss <i>Pleurozium schreberi</i> . <i>Ecoscience</i> , 1998 , 5, 77-85	1.1	18
41	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
40	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
39	A Method to Quantify the Allelopathic Compound Batatasin-III in Extracts from <i>Empetrum hermaphroditum</i> Using Gas Chromatography: Applied on Extracts from Leaves of Different Ages. <i>Journal of Chemical Ecology</i> , 1997 , 23, 2345-2355	2.7	17
38	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
37	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
36	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
35	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
34	Changes in local-scale intraspecific trait variability of dominant species across contrasting island ecosystems. <i>Ecosphere</i> , 2014 , 5, art26	3.1	14
33	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
32	A Link in the Study of Chemical Interference Exerted by <i>Empetrum hermaphroditum</i> : Quantification of Batatasin-III in Soil Solution. <i>Journal of Chemical Ecology</i> , 2000 , 26, 1311-1323	2.7	14

31	Drivers of inter-year variability of plant production and decomposers across contrasting island ecosystems. <i>Ecology</i> , 2012 , 93, 521-31	4.6	13
30	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
29	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
28	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
27	Sytoplasmic 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
26	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
25	Decomposition rates of surface and buried forest-floor material. <i>Canadian Journal of Forest Research</i> , 2017 , 47, 1140-1144	1.9	10
24	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
23	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
22	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
21	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
20	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
19	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
18	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
17	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
16	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
15	Understory vegetation as a forest ecosystem driver: evidence from the northern Swedish boreal forest 2005 , 3, 421		5
14	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

13	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
12	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
11	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
10	Quantification of tree fine roots by real-time PCR. <i>Plant and Soil</i> , 2019 , 440, 593-600	4.2	3
9	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
8	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
7	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
6	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
5	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
4	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
3	Precipitation regime controls bryosphere carbon cycling similarly across contrasting ecosystems. <i>Oikos</i> , 2021 , 130, 512-524	4	1
2	Effects of Soil Abiotic and Biotic Factors on Tree Seedling Regeneration Following a Boreal Forest Wildfire. <i>Ecosystems</i> , 1	3.9	1
1	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