Mona N Hgberg

List of Publications by Citations

41 papers	5,954 citations	29 h-index	41 g-index
41 ext. papers	6,480 ext. citations	8.5 avg, IF	5.41 L-index

#	Paper	IF	Citations
41	Large-scale forest girdling shows that current photosynthesis drives soil respiration. *Nature*, **2001**, 411, 789-92	50.4	1473
40	Boreal forest plants take up organic nitrogen. *Nature*, **1998**, 392, 914-916	50.4	798
39	Is microbial community composition in boreal forest soils determined by pH, C-to-N ratio, the trees, or all three?. *Oecologia*, **2007**, 150, 590-601	2.9	501
38	Extramatrical ectomycorrhizal mycelium contributes one-third of microbial biomass and produces, together with associated roots, half the dissolved organic carbon in a forest soil. *New Phytologist*, **2002**, 154, 791-795	9.8	397
37	High temporal resolution tracing of photosynthate carbon from the tree canopy to forest soil microorganisms. *New Phytologist*, **2008**, 177, 220-228	9.8	285
36	Quantification of effects of season and nitrogen supply on tree below-ground carbon transfer to ectomycorrhizal fungi and other soil organisms in a boreal pine forest. *New Phytologist*, **2010**, 187, 485-493	9.8	274
35	Tree root and soil heterotrophic respiration as revealed by girdling of boreal Scots pine forest: extending observations beyond the first year. *Plant, Cell and Environment*, **2003**, 26, 1287-1296	8.4	248
34	Contrasting effects of nitrogen availability on plant carbon supply to mycorrhizal fungi and saprotrophs - a hypothesis based on field observations in boreal forest. *New Phytologist*, **2003**, 160, 225-238	9.8	165
33	Are ectomycorrhizal fungi alleviating or aggravating nitrogen limitation of tree growth in boreal forests?. *New Phytologist*, **2013**, 198, 214-221	9.8	158
32	Nitrogen isotope fractionation during nitrogen uptake by ectomycorrhizal and non-mycorrhizal Pinus sylvestris. *New Phytologist*, **1999**, 142, 569-576	9.8	126
31	Forests trapped in nitrogen limitation--an ecological market perspective on ectomycorrhizal symbiosis. *New Phytologist*, **2014**, 203, 657-666	9.8	124
30	Nitrogen acquisition from inorganic and organic sources by boreal forest plants in the field. *Oecologia*, **2003**, 137, 252-7	2.9	117
29	Species level patterns in C and N abundance of ectomycorrhizal and saprotrophic fungal sporocarps. *New Phytologist*, **2003**, 159, 757-774	9.8	113
28	Natural N abundance in fruit bodies of ectomycorrhizal fungi from boreal forests. *New Phytologist*, **1997**, 136, 713-720	9.8	108
27	Tamm Review: On the nature of the nitrogen limitation to plant growth in Fennoscandian boreal forests. *Forest Ecology and Management*, **2017**, 403, 161-185	3.9	103
26	Recovery of ectomycorrhiza after 'nitrogen saturation' of a conifer forest. *New Phytologist*, **2011**, 189, 515-25	9.8	102
25	Gross nitrogen mineralisation and fungi-to-bacteria ratios are negatively correlated in boreal forests. *Biology and Fertility of Soils*, **2007**, 44, 363-366	6.1	100

24	Termination of belowground C allocation by trees alters soil fungal and bacterial communities in a boreal forest. *FEMS Microbiology Ecology*, **2009**, 70, 151-62	4.3	99
23	Production of dissolved organic carbon and low-molecular weight organic acids in soil solution driven by recent tree photosynthate. *Biogeochemistry*, **2007**, 84, 1-12	3.8	66
22	Contrasting patterns of soil N-cycling in model ecosystems of Fennoscandian boreal forests. *Oecologia*, **2006**, 147, 96-107	2.9	64
21	Discrepancies between ergosterol and the phospholipid fatty acid 18:2Δ9,9 as biomarkers for fungi in boreal forest soils. *Soil Biology and Biochemistry*, **2006**, 38, 3431-3435	7.5	55
20	Allocation of carbon to fine root compounds and their residence times in a boreal forest depend on root size class and season. *New Phytologist*, **2012**, 194, 972-981	9.8	45
19	Can gas chromatography combustion isotope ratio mass spectrometry be used to quantify organic compound abundance?. *Rapid Communications in Mass Spectrometry*, **2011**, 25, 2433-8	2.2	45
18	Measurements of abundances of 15N and 13C as tools in retrospective studies of N balances and water stress in forests: A discussion of preliminary results. *Plant and Soil*, **1995**, 168-169, 125-133	4.2	44
17	Fungal but not bacterial soil communities recover after termination of decadal nitrogen additions to boreal forest. *Soil Biology and Biochemistry*, **2014**, 72, 35-43	7.5	41
16	Relations among soil microbial community composition, nitrogen turnover, and tree growth in N-loaded and previously N-loaded boreal spruce forest. *Forest Ecology and Management*, **2013**, 302, 319-328	3.9	36
15	Shifts in soil microbial community structure, nitrogen cycling and the concomitant declining N availability in ageing primary boreal forest ecosystems. *Soil Biology and Biochemistry*, **2015**, 91, 200-211	7.5	33
14	Microbial community response to growing season and plant nutrient optimisation in a boreal Norway spruce forest. *Soil Biology and Biochemistry*, **2018**, 125, 197-209	7.5	32
13	The lateral spread of tree root systems in boreal forests: Estimates based on 15N uptake and distribution of sporocarps of ectomycorrhizal fungi. *Forest Ecology and Management*, **2008**, 255, 75-81	3.9	32
12	Variations in 15N abundance in a forest fertilization trial: Critical loads of N, N saturation, contamination and effects of revitalization fertilization. *Plant and Soil*, **1992**, 142, 211-219	4.2	28
11	The return of an experimentally N-saturated boreal forest to an N-limited state: observations on the soil microbial community structure, biotic N retention capacity and gross N mineralisation. *Plant and Soil*, **2014**, 381, 45-60	4.2	27
10	Soil microbial community indices as predictors of soil solution chemistry and N leaching in Picea abies (L.) Karst. forests in S. Sweden. *Plant and Soil*, **2013**, 372, 507-522	4.2	25
9	Is the high 15N natural abundance of trees in N-loaded forests caused by an internal ecosystem N isotope redistribution or a change in the ecosystem N isotope mass balance?. *Biogeochemistry*, **2014**, 117, 351-358	3.8	23
8	Soil bacteria and archaea change rapidly in the first century of Fennoscandian boreal forest development. *Soil Biology and Biochemistry*, **2017**, 114, 160-167	7.5	17
7	Factors Determining the 13C Abundance of Soil-Respired CO2 in Boreal Forests **2005**, 47-68		16

6	Does ectomycorrhiza have a universal key role in the formation of soil organic matter in boreal forests?. *Soil Biology and Biochemistry*, **2020**, 140, 107635	7.5	14
5	Carbon isotopes as proof for plant uptake of organic nitrogen: Relevance of inorganic carbon uptake: Reply to Rasmussen and Kuzyakov. *Soil Biology and Biochemistry*, **2009**, 41, 1588-1589	7.5	12
4	Large differences in plant nitrogen supply in German and Swedish forests Implications for management. *Forest Ecology and Management*, **2021**, 482, 118899	3.9	5
3	Fractional contributions by autotrophic and heterotrophic respiration to soil-surface CO2 efflux in Boreal forests **2004**, 251-267		3
2	Carbon-nitrogen relations of ectomycorrhizal mycelium across a natural nitrogen supply gradient in boreal forest. *New Phytologist*, **2021**, 232, 1839-1848	9.8	0
1	Does successful forest regeneration require the nursing of seedlings by nurse trees through mycorrhizal interconnections?. *Forest Ecology and Management*, **2022**, 516, 120252	3.9	0