

# Torgny Nsholm

## List of Publications by Citations

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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.

63 papers	4,605 citations	29 h-index	67 g-index
68 ext. papers	5,177 ext. citations	7 avg, IF	5.54 L-index

#	Paper	IF	Citations
63	Boreal forest plants take up organic nitrogen. <i>Nature</i> , <b>1998</b> , 392, 914-916	50.4	798
62	Uptake of organic nitrogen by plants. <i>New Phytologist</i> , <b>2009</b> , 182, 31-48	9.8	747
61	The unexpected versatility of plants: organic nitrogen use and availability in terrestrial ecosystems. <i>Oecologia</i> , <b>2001</b> , 128, 305-316	2.9	348
60	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. <i>New Phytologist</i> , <b>2010</b> , 187, 485-493	9.8	274
59	Soil nitrogen form and plant nitrogen uptake along a boreal forest productivity gradient. <i>Oecologia</i> , <b>2001</b> , 129, 125-132	2.9	216
58	Are ectomycorrhizal fungi alleviating or aggravating nitrogen limitation of tree growth in boreal forests?. <i>New Phytologist</i> , <b>2013</b> , 198, 214-221	9.8	158
57	Comprehensive screening of Arabidopsis mutants suggests the lysine histidine transporter 1 to be involved in plant uptake of amino acids. <i>Plant Physiology</i> , <b>2007</b> , 143, 1853-60	6.6	128
56	Forests trapped in nitrogen limitation--an ecological market perspective on ectomycorrhizal symbiosis. <i>New Phytologist</i> , <b>2014</b> , 203, 657-666	9.8	124
55	Parasitic fungus mediates change in nitrogen-exposed boreal forest vegetation. <i>Journal of Ecology</i> , <b>2002</b> , 90, 61-67	6	120
54	Chitin and ergosterol combined to measure total and living fungal biomass in ectomycorrhizas. <i>New Phytologist</i> , <b>1998</b> , 138, 143-149	9.8	119
53	The below-ground perspective of forest plants: soil provides mainly organic nitrogen for plants and mycorrhizal fungi. <i>New Phytologist</i> , <b>2012</b> , 195, 329-334	9.8	118
52	UPTAKE OF ORGANIC NITROGEN IN THE FIELD BY FOUR AGRICULTURALLY IMPORTANT PLANT SPECIES. <i>Ecology</i> , <b>2000</b> , 81, 1155-1161	4.6	115
51	Plant acquisition of organic nitrogen in boreal forests. <i>Physiologia Plantarum</i> , <b>2001</b> , 111, 419-426	4.6	114
50	Root uptake of cationic amino acids by Arabidopsis depends on functional expression of amino acid permease 5. <i>New Phytologist</i> , <b>2008</b> , 180, 620-630	9.8	108
49	Uptake of glycine by field grown wheat. <i>New Phytologist</i> , <b>2001</b> , 150, 59-63	9.8	85
48	Determination of chitin in fungi and mycorrhizal roots by an improved HPLC analysis of glucosamine. <i>Plant and Soil</i> , <b>1996</b> , 178, 29-35	4.2	83
47	Transporters in Arabidopsis roots mediating uptake of amino acids at naturally occurring concentrations. <i>New Phytologist</i> , <b>2011</b> , 191, 459-467	9.8	82

46	Characteristics of amino acid uptake in barley. <i>Plant and Soil</i> , <b>2008</b> , 302, 221-231	4.2	70
45	Inter-annual variability of precipitation constrains the production response of boreal <i>Pinus sylvestris</i> to nitrogen fertilization. <i>Forest Ecology and Management</i> , <b>2015</b> , 348, 31-45	3.9	60
44	The carbon bonus of organic nitrogen enhances nitrogen use efficiency of plants. <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 25-35	8.4	52
43	Nitrogen fluxes at the root-soil interface show a mismatch of nitrogen fertilizer supply and sugarcane root uptake capacity. <i>Scientific Reports</i> , <b>2015</b> , 5, 15727	4.9	47
42	Amino acid transporter mutants of <i>Arabidopsis</i> provides evidence that a non-mycorrhizal plant acquires organic nitrogen from agricultural soil. <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 413-423	8.4	46
41	Direct estimation of mass flow and diffusion of nitrogen compounds in solution and soil. <i>New Phytologist</i> , <b>2014</b> , 201, 1056-1064	9.8	46
40	Allocation of carbon to fine root compounds and their residence times in a boreal forest depend on root size class and season. <i>New Phytologist</i> , <b>2012</b> , 194, 972-981	9.8	45
39	Removal of nitrogen during needle senescence in Scots pine ( <i>Pinus sylvestris</i> L.). <i>Oecologia</i> , <b>1994</b> , 99, 290-296	2.9	45
38	Nitrogen storage forms in nine boreal understorey plant species. <i>Oecologia</i> , <b>1997</b> , 110, 487-492	2.9	41
37	Quantifying the contribution of mass flow to nitrogen acquisition by an individual plant root. <i>New Phytologist</i> , <b>2018</b> , 218, 119-130	9.8	34
36	Increased Needle Nitrogen Contents Did Not Improve Shoot Photosynthetic Performance of Mature Nitrogen-Poor Scots Pine Trees. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1051	6.2	33
35	Use of <sup>15</sup> N labelling and <sup>15</sup> N natural abundance to quantify the role of mycorrhizas in N uptake by plants: importance of seed N and of changes in the <sup>15</sup> N labelling of available N. <i>New Phytologist</i> , <b>1994</b> , 127, 515-519	9.8	29
34	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. <i>Plant and Soil</i> , <b>2014</b> , 381, 45-60	4.2	27
33	Ecophysiological variation of transpiration of pine forests: synthesis of new and published results <b>2017</b> , 27, 118-133		27
32	A novel method to measure the effect of temperature on diffusion of plant-available nitrogen in soil. <i>Plant and Soil</i> , <b>2012</b> , 354, 251-257	4.2	25
31	Boreal forest biomass accumulation is not increased by two decades of soil warming. <i>Nature Climate Change</i> , <b>2019</b> , 9, 49-52	21.4	23
30	Terrestrial nitrogen cycling in Earth system models revisited. <i>New Phytologist</i> , <b>2016</b> , 210, 1165-8	9.8	22
29	Direct acquisition of organic N by white clover even in the presence of inorganic N. <i>Plant and Soil</i> , <b>2016</b> , 407, 91-107	4.2	20

28	Evaluating hillslope and riparian contributions to dissolved nitrogen (N) export from a boreal forest catchment. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 324-339	3.7	18
27	Soil diffusive fluxes constitute the bottleneck to tree nitrogen nutrition in a Scots pine forest. <i>Plant and Soil</i> , <b>2016</b> , 399, 109-120	4.2	16
26	Dependence of amino acid composition upon nitrogen availability in birch ( <i>Betula pendula</i> ). <i>Physiologia Plantarum</i> , <b>1990</b> , 80, 507-514	4.6	13
25	Annual climate variation modifies nitrogen induced carbon accumulation of <i>Pinus sylvestris</i> forests. <i>Ecological Applications</i> , <b>2017</b> , 27, 1838-1851	4.9	12
24	Impact of Canopy Decoupling and Subcanopy Advection on the Annual Carbon Balance of a Boreal Scots Pine Forest as Derived From Eddy Covariance. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 303-325	3.7	11
23	How eco-evolutionary principles can guide tree breeding and tree biotechnology for enhanced productivity. <i>Tree Physiology</i> , <b>2014</b> , 34, 1149-66	4.2	9
22	Interplay between N-form and N-dose influences ecosystem effects of N addition to boreal forest. <i>Plant and Soil</i> , <b>2018</b> , 423, 385-395	4.2	9
21	Nitrogenase activity and root nodule metabolism in response to O <sub>2</sub> and short-term N <sub>2</sub> deprivation in dark-treated <i>Frankia-Alnus incana</i> plants. <i>Physiologia Plantarum</i> , <b>2003</b> , 119, 244-252	4.6	8
20	Applications of mineral nutrients to heavily N-fertilized Scots pine trees: Effects on arginine and mineral nutrient concentrations. <i>Plant and Soil</i> , <b>1996</b> , 184, 57-65	4.2	8
19	Exploring the nitrogen ingestion of aphids--a new method using electrical penetration graph and (15)N labelling. <i>PLoS ONE</i> , <b>2013</b> , 8, e83085	3.7	8
18	Direct uptake and rapid decrease of organic nitrogen by <i>Wollemia nobilis</i> . <i>Biology and Fertility of Soils</i> , <b>2013</b> , 49, 1247-1252	6.1	7
17	Informing climate models with rapid chamber measurements of forest carbon uptake. <i>Global Change Biology</i> , <b>2017</b> , 23, 2130-2139	11.4	7
16	Can adjustments in foliar nitrogen-use efficiency reduce drought stress impacts on boreal trees?. <i>Tree Physiology</i> , <b>2017</b> , 37, 415-417	4.2	7
15	Stem compression reversibly reduces phloem transport in <i>Pinus sylvestris</i> trees. <i>Tree Physiology</i> , <b>2015</b> , 35, 1075-85	4.2	7
14	Biohybrid plants with electronic roots polymerization of conjugated oligomers. <i>Materials Horizons</i> , <b>2021</b> , 8, 3295-3305	14.4	6
13	The mycorrhizal tragedy of the commons. <i>Ecology Letters</i> , <b>2021</b> , 24, 1215-1224	10	6
12	Temperature responses of photosynthetic capacity parameters were not affected by foliar nitrogen content in mature <i>Pinus sylvestris</i> . <i>Physiologia Plantarum</i> , <b>2018</b> , 162, 370-378	4.6	5
11	Limited vertical CO <sub>2</sub> transport in stems of mature boreal <i>Pinus sylvestris</i> trees. <i>Tree Physiology</i> , <b>2021</b> , 41, 63-75	4.2	4

10	Greater carbon allocation to mycorrhizal fungi reduces tree nitrogen uptake in a boreal forest. <i>Ecology</i> , <b>2016</b> ,	4.6	3
9	Improved in vivo measurement of alternative oxidase respiration in field-collected pine roots. <i>Physiologia Plantarum</i> , <b>2019</b> , 167, 34-47	4.6	1
8	Old roots contribute to nitrogen uptake by tree seedlings. <i>Tree Physiology</i> , <b>2014</b> , 34, 331-3	4.2	1
7	Effects of Early, Small-Scale Nitrogen Addition on Germination and Early Growth of Scots Pine ( <i>Pinus sylvestris</i> ) Seedlings and on the Recruitment of the Root-Associated Fungal Community. <i>Forests</i> , <b>2021</b> , 12, 1589	2.8	1
6	Tree water uptake enhances nitrogen acquisition in a fertilized boreal forest - but not under nitrogen-poor conditions. <i>New Phytologist</i> , <b>2021</b> , 232, 113-122	9.8	1
5	Organic nitrogen enhances nitrogen nutrition and early growth of <i>Pinus sylvestris</i> seedlings. <i>Tree Physiology</i> , <b>2021</b> ,	4.2	1
4	Fluorescence Lifetime Imaging as an In Situ and Label-Free Readout for the Chemical Composition of Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 17381-17392	8.3	1
3	To have or not to have: expression of amino acid transporters during pathogen infection.. <i>Plant Molecular Biology</i> , <b>2022</b> , 1	4.6	0
2	Nitrate fertilization may delay autumn leaf senescence, while amino acid treatments do not.. <i>Physiologia Plantarum</i> , <b>2022</b> , e13690	4.6	0
1	Isotopic Branchpoints: Linkages and Efficiencies in Carbon and Water Budgets. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2021</b> , 126, e2020JG006043	3.7	