

Line Nybakken

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

2,305
citations

218677

26
h-index

233421

45
g-index

77
all docs

77
docs citations

77
times ranked

2377
citing authors

#	ARTICLE	IF	CITATIONS
1	UV-induced screening pigments in lichens. <i>New Phytologist</i> , 2003, 158, 91-100.	7.3	213
2	UV screening in higher plants induced by low temperature in the absence of UV-B radiation. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 190-195.	2.9	132
3	The lichens <i>Xanthoria elegans</i> and <i>Cetraria islandica</i> maintain a high protection against UV-B radiation in Arctic habitats. <i>Oecologia</i> , 2004, 140, 211-216.	2.0	100
4	Assessing the response of plant flavonoids to UV radiation: an overview of appropriate techniques. <i>Phytochemistry Reviews</i> , 2015, 14, 273-297.	6.5	98
5	Growth of epiphytic old forest lichens across climatic and successional gradients. <i>Canadian Journal of Forest Research</i> , 2007, 37, 1832-1845.	1.7	91
6	Combined enhancements of temperature and UVB influence growth and phenolics in clones of the sexually dimorphic <i>Salix myrsinifolia</i> . <i>Physiologia Plantarum</i> , 2012, 145, 551-564.	5.2	87
7	Sex-related differences in growth and carbon allocation to defence in <i>Populus tremula</i> as explained by current plant defence theories. <i>Tree Physiology</i> , 2014, 34, 471-487.	3.1	84
8	UV triggers the synthesis of the widely distributed secondary lichen compound usnic acid. <i>Mycological Progress</i> , 2006, 5, 221-229.	1.4	73
9	Epidermal UV-screening of arctic and alpine plants along a latitudinal gradient in Europe. <i>Polar Biology</i> , 2004, 27, 391-398.	1.2	70
10	Fungal biomass associated with the phyllosphere of bryophytes and vascular plants. <i>Mycological Research</i> , 2009, 113, 1254-1260.	2.5	62
11	Possible functional roles of cortical depsides and medullary depsidones in the foliose lichen <i>Hypogymnia physodes</i> . <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2009, 204, 40-48.	1.2	62
12	UV-B induces usnic acid in reindeer lichens. <i>Lichenologist</i> , 2006, 38, 477-485.	0.8	56
13	Epidermal UV-screening in vascular plants from Svalbard (Norwegian Arctic). <i>Polar Biology</i> , 2004, 27, 383-390.	1.2	55
14	Aspect-dependent high-irradiance damage in two transplanted foliose forest lichens, <i>Lobaria pulmonaria</i> and <i>Parmelia sulcata</i> . <i>Canadian Journal of Forest Research</i> , 2001, 31, 1639-1649.	1.7	45
15	Long-term UV-B and temperature enhancements suggest that females of <i>Salix myrsinifolia</i> plants are more tolerant to UV-B than males. <i>Environmental and Experimental Botany</i> , 2015, 109, 296-305.	4.2	45
16	Forest Successional Stage Affects the Cortical Secondary Chemistry of Three Old Forest Lichens. <i>Journal of Chemical Ecology</i> , 2007, 33, 1607-1618.	1.8	43
17	Size-dependent growth of two old-growth associated macrolichen species. <i>New Phytologist</i> , 2009, 181, 683-692.	7.3	42
18	Combination treatment of elevated UVB radiation, CO ₂ and temperature has little effect on silver birch (<i>Betula pendula</i>) growth and phytochemistry. <i>Physiologia Plantarum</i> , 2013, 149, 499-514.	5.2	41

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19	Impacts of elevated temperature and CO ₂ concentration on growth and phenolics in the sexually dimorphic <i>Populus tremula</i> (L.). <i>Environmental and Experimental Botany</i> , 2018, 146, 34-44.	4.2	38
20	Lichen Compounds Restrain Lichen Feeding by Bank Voles (<i>Myodes glareolus</i>). <i>Journal of Chemical Ecology</i> , 2010, 36, 298-304.	1.8	37
21	Fungal communities influence decomposition rates of plant litter from two dominant tree species. <i>Fungal Ecology</i> , 2018, 32, 1-8.	1.6	35
22	Editorial: Interactive effects of UV-B radiation in a complex environment. <i>Plant Physiology and Biochemistry</i> , 2019, 134, 1-8.	5.8	35
23	Gender differences in <i>Salix myrsinifolia</i> at the pre-reproductive stage are little affected by simulated climatic change. <i>Physiologia Plantarum</i> , 2013, 147, 465-476.	5.2	32
24	The influence of spectral composition on spring and autumn phenology in trees. <i>Tree Physiology</i> , 2019, 39, 925-950.	3.1	32
25	Effects of enhanced UV-B radiation and epidermal UV screening in arctic and alpine plants. , 2007, , 195-209.		30
26	Defensive compound concentration in boreal lichens in response to simulated nitrogen deposition. <i>Global Change Biology</i> , 2009, 15, 2247-2260.	9.5	30
27	UV-B and temperature enhancement affect spring and autumn phenology in <i>Populus tremula</i> . <i>Plant, Cell and Environment</i> , 2015, 38, 867-877.	5.7	30
28	Increased growth and phenolic compounds in bilberry (<i>Vaccinium myrtillus</i> L.) following forest clear-cutting. <i>Scandinavian Journal of Forest Research</i> , 2013, 28, 319-330.	1.4	29
29	Fertilization Changes Chemical Defense in Needles of Mature Norway Spruce (<i>Picea abies</i>). <i>Frontiers in Plant Science</i> , 2018, 9, 770.	3.6	28
30	Dark-leaved willow (<i>Salix myrsinifolia</i>) is resistant to three-factor (elevated CO ₂ , Tj ETQq0 0,0 rgBT /Qverlock 10	7.3	27
31	Experimental warming had little effect on carbon-based secondary compounds, carbon and nitrogen in selected alpine plants and lichens. <i>Environmental and Experimental Botany</i> , 2011, 72, 368-376.	4.2	24
32	Spruce and beech as local determinants of forest fungal community structure in litter, humus and mineral soil. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	24
33	Aspect-dependent high-irradiance damage in two transplanted foliose forest lichens, <i>Lobaria pulmonaria</i> and <i>Parmelia sulcata</i> . <i>Canadian Journal of Forest Research</i> , 2001, 31, 1639-1649.	1.7	24
34	Compositional Changes in Foliage Phenolics with Plant Age, a Natural Experiment in Boreal Forests. <i>Journal of Chemical Ecology</i> , 2017, 43, 920-928.	1.8	23
35	Responses of growth and leaf phenolics in European aspen (<i>Populus tremula</i>) to climate change during juvenile phase change. <i>Canadian Journal of Forest Research</i> , 2017, 47, 1350-1363.	1.7	23
36	Ultraviolet radiation accelerates photodegradation under controlled conditions but slows the decomposition of senescent leaves from forest stands in southern Finland. <i>Plant Physiology and Biochemistry</i> , 2020, 146, 42-54.	5.8	22

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37	Moose selecting for specific nutritional composition of birch places limits on food acceptability. <i>Ecology and Evolution</i> , 2018, 8, 1117-1130.	1.9	21
38	Effects of long-term UV-exposure and plant sex on the leaf phenoloxidase activities and phenolic concentrations of <i>Salix myrsinifolia</i> (Salisb.). <i>Plant Physiology and Biochemistry</i> , 2018, 126, 55-62.	5.8	20
39	Slow-growing <i>Salix repens</i> (Salicaceae) benefits from changing climate. <i>Environmental and Experimental Botany</i> , 2016, 128, 59-68.	4.2	19
40	Transient nutritional peak in browse foliage after forest clearing advocates cohort management of ungulates. <i>Basic and Applied Ecology</i> , 2016, 17, 252-261.	2.7	19
41	A Seven-Year Study of Phenolic Concentrations of the Dioecious <i>Salix myrsinifolia</i> . <i>Journal of Chemical Ecology</i> , 2018, 44, 416-430.	1.8	16
42	Simulated Environmental Change Has Contrasting Effects on Defensive Compound Concentration in Three Alpine Plant Species. <i>Arctic, Antarctic, and Alpine Research</i> , 2008, 40, 709-715.	1.1	15
43	Simulated nitrogen deposition influences gastropod grazing in lichens. <i>Ecoscience</i> , 2010, 17, 83-89.	1.4	15
44	Late-Holocene fire history as revealed by size, age and composition of the soil charcoal pool in neighbouring beech and spruce forest landscapes in SE Norway. <i>Holocene</i> , 2017, 27, 397-403.	1.7	15
45	Litter impair spruce seedling emergence in beech forests: a litter manipulation experiment. <i>Scandinavian Journal of Forest Research</i> , 2018, 33, 332-337.	1.4	15
46	Difference in secondary compounds and chlorophylls between fibrils and main stems in the lichen <i>Usnea longissima</i> suggests different functional roles. <i>Lichenologist</i> , 2007, 39, 491-494.	0.8	13
47	Restoration of secondary metabolism in birch seedlings relieved from PAL-inhibitor. <i>Trees - Structure and Function</i> , 2007, 21, 273-281.	1.9	13
48	The vegetative buds of <i>Salix myrsinifolia</i> are responsive to elevated UV-B and temperature. <i>Plant Physiology and Biochemistry</i> , 2015, 93, 66-73.	5.8	13
49	The dioecious <i>Populus tremula</i> displays interactive effects of temperature and ultraviolet-B along a natural gradient. <i>Environmental and Experimental Botany</i> , 2018, 146, 13-26.	4.2	13
50	Fungal community dynamics across a forest-alpine ecotone. <i>Molecular Ecology</i> , 2021, 30, 4926-4938.	3.9	13
51	Sex-related responses of European aspen (<i>Populus tremula</i> L.) to combined stress: TiO ₂ nanoparticles, elevated temperature and CO ₂ concentration. <i>Journal of Hazardous Materials</i> , 2018, 352, 130-138.	12.4	12
52	Effect of climate change on bud phenology of young aspen plants (<i>Populus tremula</i> L.). <i>Ecology and Evolution</i> , 2017, 7, 7998-8007.	1.9	11
53	Growth and defence of aspen (<i>Populus tremula</i>) after three seasons under elevated temperature and ultraviolet-B radiation. <i>Canadian Journal of Forest Research</i> , 2018, 48, 629-641.	1.7	11
54	Effects of soil pyrene contamination on growth and phenolics in Norway spruce (<i>Picea abies</i>) are modified by elevated temperature and CO ₂ . <i>Environmental Science and Pollution Research</i> , 2018, 25, 12788-12799.	5.3	10

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55	Elevated air humidity increases UV mediated leaf and DNA damage in pea (<i>Pisum sativum</i>) due to reduced flavonoid content and antioxidant power. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 387-399.	2.9	10
56	High daytime temperature delays autumnal bud formation in <i>Populus tremula</i> under field conditions. <i>Tree Physiology</i> , 2016, 37, 71-81.	3.1	9
57	Vertical distribution of soil carbon in boreal forest under European beech and Norway spruce. <i>European Journal of Forest Research</i> , 2019, 138, 353-361.	2.5	9
58	Contrasting responses of plant and lichen carbon-based secondary compounds across an elevational gradient. <i>Functional Ecology</i> , 2021, 35, 330-341.	3.6	9
59	Climatic effects on bud break and frost tolerance in the northernmost populations of Beech (<i>Fagus</i>)	1.9	8
60	Interannual variation in UV-B and temperature effects on bud phenology and growth in <i>Populus tremula</i> . <i>Plant Physiology and Biochemistry</i> , 2019, 134, 31-39.	5.8	7
61	Sex-related differences of two ecologically divergent <i>Salix</i> species in the responses of enzyme activities to atmospheric CO ₂ enrichment. <i>Biologia Plantarum</i> , 2013, 57, 732-738.	1.9	6
62	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.	4.2	6
63	Elevated temperature and CO ₂ affect responses of European aspen (<i>Populus tremula</i>) to soil pyrene contamination. <i>Science of the Total Environment</i> , 2018, 634, 150-157.	8.0	6
64	No evidence of a protective or cumulative negative effect of UV-B on growth inhibition induced by gamma radiation in Scots pine (<i>Pinus sylvestris</i>) seedlings. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1945-1962.	2.9	6
65	Establishment of spruce plantations in native birch forests reduces soil fungal diversity. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	2.7	6
66	Legacies of invertebrate exclusion and tree secondary metabolites control fungal communities in dead wood. <i>Molecular Ecology</i> , 2022, 31, 3241-3253.	3.9	6
67	Fertilization of Norway spruce forest with wood ash and nitrogen affected both tree growth and composition of chemical defence. <i>Forestry</i> , 2020, 93, 589-600.	2.3	5
68	Accumulation of phenolics and growth of dioecious <i>Populus tremula</i> (L.) seedlings over three growing seasons under elevated temperature and UVB radiation. <i>Plant Physiology and Biochemistry</i> , 2021, 165, 114-122.	5.8	5
69	Boreal woody species resistance affected by climate change.. , 2015, , 54-73.		5
70	Responses in growth and phenolics accumulation to lateral bud removal in male and female saplings of <i>Populus tremula</i> (L.) under simulated climate change. <i>Science of the Total Environment</i> , 2020, 704, 135462.	8.0	3
71	Environment rather than provenance explains levels of foliar phenolics in European beech (<i>Fagus</i>)	1.9	3
72	Constitutive and inducible chemical defences in nursery-grown and naturally regenerated Norway spruce (<i>Picea abies</i>) plants. <i>Forest Ecology and Management</i> , 2021, 491, 119180.	3.2	3

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73	Secondary metabolites and nutrients explain fungal community composition in aspen wood. <i>Fungal Ecology</i> , 2021, , 101115.	1.6	3
74	Contrasting impact of whole-tree-harvesting on chemical quality of plant foliage in coastal versus inland forest. <i>Scandinavian Journal of Forest Research</i> , 2016, 31, 541-545.	1.4	2