

Juul Limpens

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

3,732
citations

136950

32
h-index

133252

59
g-index

75
all docs

75
docs citations

75
times ranked

4106
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric nitrogen deposition promotes carbon loss from peat bogs. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19386-19389.	7.1	367
2	Nutritional constraints in ombrotrophic Sphagnum plants under increasing atmospheric nitrogen deposition in Europe. New Phytologist, 2004, 163, 609-616.	7.3	169
3	Nitrogen concentration and delta15N signature of ombrotrophic Sphagnum mosses at different N deposition levels in Europe. Global Change Biology, 2005, 11, 106-114.	9.5	164
4	N deposition affects N availability in interstitial water, growth of Sphagnum and invasion of vascular plants in bog vegetation. New Phytologist, 2003, 157, 339-347.	7.3	151
5	Permafrost collapse after shrub removal shifts tundra ecosystem to a methane source. Nature Climate Change, 2015, 5, 67-70.	18.8	147
6	Expansion of invasive species on ombrotrophic bogs: desiccation or high N deposition?. Journal of Applied Ecology, 2004, 41, 139-150.	4.0	145
7	Cell-wall polysaccharides play an important role in decay resistance of Sphagnum and actively depressed decomposition in vitro. Biogeochemistry, 2011, 103, 45-57.	3.5	133
8	Ecosystem responses to reduced and oxidised nitrogen inputs in European terrestrial habitats. Environmental Pollution, 2011, 159, 665-676.	7.5	132
9	How litter quality affects mass loss and N loss from decomposing Sphagnum. Oikos, 2003, 103, 537-547.	2.7	128
10	How Phosphorus Availability Affects the Impact of Nitrogen Deposition on Sphagnum and Vascular Plants in Bogs. Ecosystems, 2004, 7, 793-804.	3.4	128
11	Decreased summer water table depth affects peatland vegetation. Basic and Applied Ecology, 2009, 10, 330-339.	2.7	124
12	Growth reduction of Sphagnum magellanicum subjected to high nitrogen deposition: the role of amino acid nitrogen concentration. Oecologia, 2003, 135, 339-345.	2.0	118
13	Climatic modifiers of the response to nitrogen deposition in peat-forming Sphagnum mosses: a meta-analysis. New Phytologist, 2011, 191, 496-507.	7.3	117
14	Interactive effects of water table and precipitation on net CO ₂ assimilation of three co-occurring Sphagnum mosses differing in distribution above the water table. Global Change Biology, 2009, 15, 680-691.	9.5	104
15	Effects of water level and temperature on performance of four Sphagnum mosses. Plant Ecology, 2007, 190, 97-107.	1.6	95
16	Tundra vegetation change and impacts on permafrost. Nature Reviews Earth & Environment, 2022, 3, 68-84.	29.7	87
17	Persistent versus transient tree encroachment of temperate peat bogs: effects of climate warming and drought events. Global Change Biology, 2013, 19, 2240-2250.	9.5	70
18	The Nitrogen Cycle in Boreal Peatlands. , 2006, , 195-230.		69

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19	Positive shrub-tree interactions facilitate woody encroachment in boreal peatlands. <i>Journal of Ecology</i> , 2015, 103, 58-66.	4.0	63
20	The effect of increased temperature and nitrogen deposition on decomposition in bogs. <i>Oikos</i> , 2008, 117, 1258-1268.	2.7	60
21	Can frequent precipitation moderate the impact of drought on peatmoss carbon uptake in northern peatlands?. <i>New Phytologist</i> , 2014, 203, 70-80.	7.3	57
22	Rain events decrease boreal peatland net CO_2 uptake through reduced light availability. <i>Global Change Biology</i> , 2015, 21, 2309-2320.	9.5	57
23	The Sphagnome Project: enabling ecological and evolutionary insights through a genus-level sequencing project. <i>New Phytologist</i> , 2018, 217, 16-25.	7.3	54
24	Expansion of <i>Sphagnum fallax</i> bogs: striking the balance between N and P availability. <i>Journal of Bryology</i> , 2003, 25, 83-90.	1.2	53
25	Dissolved organic nitrogen dominates in European bogs under increasing atmospheric N deposition. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	49
26	Above- and below-ground responses of four tundra plant functional types to deep soil heating and surface soil fertilization. <i>Journal of Ecology</i> , 2017, 105, 947-957.	4.0	49
27	Background invertebrate herbivory on dwarf birch (<i>Betula glandulosa-nana</i> complex) increases with temperature and precipitation across the tundra biome. <i>Polar Biology</i> , 2017, 40, 2265-2278.	1.2	47
28	Interspecific competition between <i>Sphagnum</i> mosses at different water tables. <i>Functional Ecology</i> , 2007, 21, 805-812.	3.6	46
29	Glasshouse vs field experiments: do they yield ecologically similar results for assessing N impacts on peat mosses?. <i>New Phytologist</i> , 2012, 195, 408-418.	7.3	46
30	Embryo dune development drivers: beach morphology, growing season precipitation, and storms. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1733-1744.	2.5	44
31	The interaction between epiphytic algae, a parasitic fungus and <i>Sphagnum</i> as affected by N and P. <i>Oikos</i> , 2003, 103, 59-68.	2.7	43
32	Exploring the contributions of vegetation and dune size to early dune development using unmanned aerial vehicle (UAV) imaging. <i>Biogeosciences</i> , 2017, 14, 5533-5549.	3.3	36
33	Peatland vegetation composition and phenology drive the seasonal trajectory of maximum gross primary production. <i>Scientific Reports</i> , 2018, 8, 8012.	3.3	34
34	UAV-imaging to model growth response of marram grass to sand burial: Implications for coastal dune development. <i>Aeolian Research</i> , 2018, 31, 50-61.	2.7	33
35	Environmental drivers of <i>Sphagnum</i> growth in peatlands across the Holarctic region. <i>Journal of Ecology</i> , 2021, 109, 417-431.	4.0	32
36	<i>Sphagnum</i> re-introduction in degraded peatlands: The effects of aggregation, species identity and water table. <i>Basic and Applied Ecology</i> , 2009, 10, 697-706.	2.7	30

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37	Forage plants of an Arctic nesting herbivore show larger warming response in breeding than wintering grounds, potentially disrupting migration phenology. <i>Ecology and Evolution</i> , 2017, 7, 2652-2660.	1.9	29
38	Including hydrological self-regulating processes in peatland models: Effects on peatmoss drought projections. <i>Science of the Total Environment</i> , 2017, 580, 1389-1400.	8.0	26
39	Phylogenetic or environmental control on the elemental and organo-chemical composition of Sphagnum mosses?. <i>Plant and Soil</i> , 2017, 417, 69-85.	3.7	26
40	Environmental and taxonomic controls of carbon and oxygen stable isotope composition in Sphagnum across broad climatic and geographic ranges. <i>Biogeosciences</i> , 2018, 15, 5189-5202.	3.3	25
41	Extremely wet summer events enhance permafrost thaw for multiple years in Siberian tundra. <i>Nature Communications</i> , 2022, 13, 1556.	12.8	24
42	How Does Tree Density Affect Water Loss of Peatlands? A Mesocosm Experiment. <i>PLoS ONE</i> , 2014, 9, e91748.	2.5	23
43	Swift recovery of Sphagnum nutrient concentrations after excess supply. <i>Oecologia</i> , 2008, 157, 153-61.	2.0	21
44	Spatio-temporal trends of nitrogen deposition and climate effects on Sphagnum productivity in European peatlands. <i>Environmental Pollution</i> , 2014, 187, 73-80.	7.5	20
45	Does salt stress constrain spatial distribution of dune building grasses <i>Ammophila arenaria</i> and <i>Elytrichia juncea</i> on the beach?. <i>Ecology and Evolution</i> , 2017, 7, 7290-7303.	1.9	20
46	Plant functional types and temperature control carbon input via roots in peatland soils. <i>Plant and Soil</i> , 2019, 438, 19-38.	3.7	20
47	Rapid Vegetation Succession and Coupled Permafrost Dynamics in Arctic Thaw Ponds in the Siberian Lowland Tundra. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005618.	3.0	20
48	Dead wood diversity promotes fungal diversity. <i>Oikos</i> , 2021, 130, 2202-2216.	2.7	20
49	Shrub decline and expansion of wetland vegetation revealed by very high resolution land cover change detection in the Siberian lowland tundra. <i>Science of the Total Environment</i> , 2021, 782, 146877.	8.0	19
50	Precipitation determines the persistence of hollow Sphagnum species on hummocks. <i>Wetlands</i> , 2007, 27, 979-986.	1.5	17
51	Do plant traits explain tree seedling survival in bogs?. <i>Functional Ecology</i> , 2014, 28, 283-290.	3.6	17
52	Depth-based differentiation in nitrogen uptake between graminoids and shrubs in an Arctic tundra plant community. <i>Journal of Vegetation Science</i> , 2018, 29, 34-41.	2.2	17
53	Vascular plants affect properties and decomposition of moss-dominated peat, particularly at elevated temperatures. <i>Biogeosciences</i> , 2020, 17, 4797-4813.	3.3	16
54	High-resolution peat volume change in a northern peatland: Spatial variability, main drivers, and impact on ecohydrology. <i>Ecohydrology</i> , 2019, 12, e2114.	2.4	14

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55	Shrubs and Degraded Permafrost Pave the Way for Tree Establishment in Subarctic Peatlands. <i>Ecosystems</i> , 2021, 24, 370-383.	3.4	13
56	A modification of the constant-head permeameter to measure saturated hydraulic conductivity of highly permeable media. <i>MethodsX</i> , 2017, 4, 134-142.	1.6	11
57	Post-thaw variability in litter decomposition best explained by microtopography at an ice-rich permafrost peatland. <i>Arctic, Antarctic, and Alpine Research</i> , 2018, 50, .	1.1	9
58	Exploring near-surface ground ice distribution in patterned-ground tundra: correlations with topography, soil and vegetation. <i>Plant and Soil</i> , 2019, 444, 251-265.	3.7	9
59	Can ash from smoldering fires increase peatland soil pH?. <i>International Journal of Wildland Fire</i> , 2022, 31, 607-620.	2.4	9
60	Mixing ratio and species affect the use of substrate-derived CO ₂ by <i>Sphagnum</i> . <i>Journal of Vegetation Science</i> , 2008, 19, 841-848.	2.2	5
61	Monitoring Impact of Salt-Marsh Vegetation Characteristics on Sedimentation: an Outlook for Nature-Based Flood Protection. <i>Wetlands</i> , 2021, 41, 1.	1.5	5
62	Global CO ₂ fertilization of <i>Sphagnum</i> peat mosses via suppression of photorespiration during the twentieth century. <i>Scientific Reports</i> , 2021, 11, 24517.	3.3	5
63	Above- to belowground carbon allocation in peatlands shifts with plant functional type and temperature [#] . <i>Journal of Plant Nutrition and Soil Science</i> , 2022, 185, 98-109.	1.9	4
64	Determinants of tree seedling establishment in alpine tundra. <i>Journal of Vegetation Science</i> , 2021, 32, e12948.	2.2	2
65	Green beach vegetation dynamics explained by embryo dune development. <i>Basic and Applied Ecology</i> , 2021, 56, 45-57.	2.7	2
66	Peatlands and the Carbon Cycle. <i>Bulletin of the Ecological Society of America</i> , 2008, 89, 79-80.	0.2	0