

Nathalie Fenner

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

4,569
citations

236925

25
h-index

289244

40
g-index

41
all docs

41
docs citations

41
times ranked

4670
citing authors

#	ARTICLE	IF	CITATIONS
1	Export of organic carbon from peat soils. <i>Nature</i> , 2001, 412, 785-785.	27.8	837
2	Export of dissolved organic carbon from peatlands under elevated carbon dioxide levels. <i>Nature</i> , 2004, 430, 195-198.	27.8	543
3	Drought-induced carbon loss in peatlands. <i>Nature Geoscience</i> , 2011, 4, 895-900.	12.9	481
4	Atmospheric nitrogen deposition promotes carbon loss from peat bogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19386-19389.	7.1	367
5	A regulatory role for phenol oxidase during decomposition in peatlands. <i>Soil Biology and Biochemistry</i> , 2004, 36, 1663-1667.	8.8	356
6	Terrestrial export of organic carbon. <i>Nature</i> , 2002, 415, 862-862.	27.8	212
7	Observations of a seasonally shifting thermal optimum in peatland carbon-cycling processes; implications for the global carbon cycle and soil enzyme methodologies. <i>Soil Biology and Biochemistry</i> , 2005, 37, 1814-1821.	8.8	154
8	Additional carbon sequestration benefits of grassland diversity restoration. <i>Journal of Applied Ecology</i> , 2011, 48, 600-608.	4.0	145
9	Comparative analysis of soil microbial communities and their responses to the short-term drought in bog, fen, and riparian wetlands. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2874-2880.	8.8	133
10	Interactions between Elevated CO ₂ and Warming Could Amplify DOC Exports from Peatland Catchments. <i>Environmental Science & Technology</i> , 2007, 41, 3146-3152.	10.0	130
11	Hydrological effects on the diversity of phenolic degrading bacteria in a peatland: implications for carbon cycling. <i>Soil Biology and Biochemistry</i> , 2005, 37, 1277-1287.	8.8	127
12	Summer drought effects upon soil and litter extracellular phenol oxidase activity and soluble carbon release in an upland <i>Calluna</i> heathland. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1519-1532.	8.8	116
13	Summer drought decreases soil fungal diversity and associated phenol oxidase activity in upland <i>Calluna</i> heathland soil. <i>FEMS Microbiology Ecology</i> , 2008, 66, 426-436.	2.7	98
14	Elevated CO ₂ Effects on Peatland Plant Community Carbon Dynamics and DOC Production. <i>Ecosystems</i> , 2007, 10, 635-647.	3.4	81
15	UV-visible absorbance spectroscopy as a proxy for peatland dissolved organic carbon (DOC) quantity and quality: considerations on wavelength and absorbance degradation. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 1445.	3.5	74
16	Peatland carbon afflux partitioning reveals that <i>Sphagnum</i> photosynthate contributes to the DOC pool. <i>Plant and Soil</i> , 2004, 259, 345-354.	3.7	64
17	Woody litter protects peat carbon stocks during drought. <i>Nature Climate Change</i> , 2020, 10, 363-369.	18.8	64
18	Infilled Ditches are Hotspots of Landscape Methane Flux Following Peatland Re-wetting. <i>Ecosystems</i> , 2014, 17, 1227-1241.	3.4	57

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19	The interactive effects of elevated carbon dioxide and water table draw-down on carbon cycling in a Welsh ombrotrophic bog. <i>Ecological Engineering</i> , 2009, 35, 978-986.	3.6	49
20	Shifts of soil enzyme activities in wetlands exposed to elevated CO ₂ . <i>Science of the Total Environment</i> , 2005, 337, 207-212.	8.0	48
21	Peatland geoengineering: an alternative approach to terrestrial carbon sequestration. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 4404-4421.	3.4	47
22	Decomposition "hotspots" in a rewetted peatland: implications for water quality and carbon cycling. <i>Hydrobiologia</i> , 2011, 674, 51-66.	2.0	46
23	Long-term drainage for forestry inhibits extracellular phenol oxidase activity in Finnish boreal mire peat. <i>European Journal of Soil Science</i> , 2010, 61, 950-957.	3.9	44
24	Functional and structural responses of bacterial and methanogen communities to 3-year warming incubation in different depths of peat mire. <i>Applied Soil Ecology</i> , 2012, 57, 23-30.	4.3	38
25	Molecular weight spectra of dissolved organic carbon in a rewetted Welsh peatland and possible implications for water quality. <i>Soil Use and Management</i> , 2001, 17, 106-112.	4.9	32
26	Evaluation of algal bloom mitigation and nutrient removal in floating constructed wetlands with different macrophyte species. <i>Ecological Engineering</i> , 2017, 108, 581-588.	3.6	29
27	Impeded drainage stimulates extracellular phenol oxidase activity in riparian peat cores. <i>Soil Use and Management</i> , 2008, 24, 357-365.	4.9	27
28	The effect of peatland drainage and rewetting (ditch blocking) on extracellular enzyme activities and water chemistry. <i>Soil Use and Management</i> , 2015, 31, 67-76.	4.9	24
29	Using chemical, microbial and fluorescence techniques to understand contaminant sources and pathways to wetlands in a conservation site. <i>Science of the Total Environment</i> , 2015, 511, 703-710.	8.0	21
30	Subtle shifts in microbial communities occur alongside the release of carbon induced by drought and rewetting in contrasting peatland ecosystems. <i>Scientific Reports</i> , 2017, 7, 11314.	3.3	20
31	Natural revegetation of bog pools after peatland restoration involving ditch blocking "The influence of pool depth and implications for carbon cycling. <i>Ecological Engineering</i> , 2013, 57, 297-301.	3.6	18
32	Quantifying dissolved organic carbon concentrations in upland catchments using phenolic proxy measurements. <i>Journal of Hydrology</i> , 2013, 477, 251-260.	5.4	15
33	Evidence for sensitivity of dune wetlands to groundwater nutrients. <i>Science of the Total Environment</i> , 2014, 490, 106-113.	8.0	15
34	Carbon preservation in humic lakes; a hierarchical regulatory pathway. <i>Global Change Biology</i> , 2013, 19, 775-784.	9.5	13
35	Small changes in water levels and groundwater nutrients alter nitrogen and carbon processing in dune slack soils. <i>Soil Biology and Biochemistry</i> , 2016, 99, 28-35.	8.8	11
36	A novel approach to studying the effects of temperature on soil biogeochemistry using a thermal gradient bar. <i>Soil Use and Management</i> , 2006, 22, 267-273.	4.9	9

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37	Hydrological Controls on Dissolved Organic Carbon Production and Release from UK Peatlands. Geophysical Monograph Series, 0, , 237-249.	0.1	8
38	Influence of Water Table Depth on Pore Water Chemistry and Trihalomethane Formation Potential in Peatlands. Water Environment Research, 2016, 88, 107-117.	2.7	5
39	Effects of Climate Change on Peatland Reservoirs: A DOC Perspective. Global Biogeochemical Cycles, 2021, 35, e2021GB006992.	4.9	5
40	An iron-reduction-mediated cascade mechanism increases the risk of carbon loss from mineral-rich peatlands. Applied Soil Ecology, 2022, 172, 104361.	4.3	5
41	Substantial uptake of atmospheric and groundwater nitrogen by dune slacks under different water table regimes. Journal of Coastal Conservation, 2018, 22, 615-622.	1.6	1