Nathalie Fenner

List of Publications by Year
in descending order

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	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
2	Effects of Climate Change on Peatland Reservoirs: A DOC Perspective. Global Biogeochemical Cycles, 2021, 35, e2021GB006992.	4.9	5
3	Woody litter protects peat carbon stocks during drought. Nature Climate Change, 2020, 10, 363-369.	18.8	64
4	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
5	Evaluation of algal bloom mitigation and nutrient removal in floating constructed wetlands with different macrophyte species. Ecological Engineering, 2017, 108, 581-588.	3.6	29
6	Subtle shifts in microbial communities occur alongside the release of carbon induced by drought and rewetting in contrasting peatland ecosystems. Scientific Reports, 2017, 7, 11314.	3.3	20
7	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
8	Small changes in water levels and groundwater nutrients alter nitrogen and carbon processing in dune slack soils. Soil Biology and Biochemistry, 2016, 99, 28-35.	8.8	11
9	The effect of peatland drainage and rewetting (ditch blocking) on extracellular enzyme activities and water chemistry. Soil Use and Management, 2015, 31, 67-76.	4.9	24
10	Using chemical, microbial and fluorescence techniques to understand contaminant sources and pathways to wetlands in a conservation site. Science of the Total Environment, 2015, 511, 703-710.	8.0	21
11	Infilled Ditches are Hotspots of Landscape Methane Flux Following Peatland Re-wetting. Ecosystems, 2014, 17, 1227-1241.	3.4	57
12	UV-visible absorbance spectroscopy as a proxy for peatland dissolved organic carbon (DOC) quantity and quality: considerations on wavelength and absorbance degradation. Environmental Sciences: Processes and Impacts, 2014, 16, 1445.	3.5	74
13	Evidence for sensitivity of dune wetlands to groundwater nutrients. Science of the Total Environment, 2014, 490, 106-113.	8.0	15
14	Natural revegetation of bog pools after peatland restoration involving ditch blockingâ€"The influence of pool depth and implications for carbon cycling. Ecological Engineering, 2013, 57, 297-301.	3.6	18
15	Quantifying dissolved organic carbon concentrations in upland catchments using phenolic proxy measurements. Journal of Hydrology, 2013, 477, 251-260.	5.4	15
16	Carbon preservation in humic lakes; a hierarchical regulatory pathway. Global Change Biology, 2013, 19, 775-784.	9.5	13
17	Peatland geoengineering: an alternative approach to terrestrial carbon sequestration. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4404-4421.	3.4	47
18	Functional and structural responses of bacterial and methanogen communities to 3-year warming incubation in different depths of peat mire. Applied Soil Ecology, 2012, 57, 23-30.	4.3	38

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19	Additional carbon sequestration benefits of grassland diversity restoration. Journal of Applied Ecology, 2011, 48, 600-608.	4.0	145
20	Decomposition â€˜hotspotsâ€™ in a rewetted peatland: implications for water quality and carbon cycling. Hydrobiologia, 2011, 674, 51-66.	2.0	46
21	Drought-induced carbon loss in peatlands. Nature Geoscience, 2011, 4, 895-900.	12.9	481
22	Longâ€term drainage for forestry inhibits extracellular phenol oxidase activity in Finnish boreal mire peat. European Journal of Soil Science, 2010, 61, 950-957.	3.9	44
23	The interactive effects of elevated carbon dioxide and water table draw-down on carbon cycling in a Welsh ombrotrophic bog. Ecological Engineering, 2009, 35, 978-986.	3.6	49
24	Summer drought decreases soil fungal diversity and associated phenol oxidase activity in upland Calluna heathland soil. FEMS Microbiology Ecology, 2008, 66, 426-436.	2.7	98
25	Impeded drainage stimulates extracellular phenol oxidase activity in riparian peat cores. Soil Use and Management, 2008, 24, 357-365.	4.9	27
26	Summer drought effects upon soil and litter extracellular phenol oxidase activity and soluble carbon release in an upland Calluna heathland. Soil Biology and Biochemistry, 2008, 40, 1519-1532.	8.8	116
27	Comparative analysis of soil microbial communities and their responses to the short-term drought in bog, fen, and riparian wetlands. Soil Biology and Biochemistry, 2008, 40, 2874-2880.	8.8	133
28	Interactions between Elevated CO2and Warming Could Amplify DOC Exports from Peatland Catchments. Environmental Science & Technology, 2007, 41, 3146-3152.	10.0	130
29	Elevated CO2 Effects on Peatland Plant Community Carbon Dynamics and DOC Production. Ecosystems, 2007, 10, 635-647.	3.4	81
30	A novel approach to studying the effects of temperature on soil biogeochemistry using a thermal gradient bar. Soil Use and Management, 2006, 22, 267-273.	4.9	9
31	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
32	Hydrological effects on the diversity of phenolic degrading bacteria in a peatland: implications for carbon cycling. Soil Biology and Biochemistry, 2005, 37, 1277-1287.	8.8	127
33	Observations of a seasonally shifting thermal optimum in peatland carbon-cycling processes; implications for the global carbon cycle and soil enzyme methodologies. Soil Biology and Biochemistry, 2005, 37, 1814-1821.	8.8	154
34	Shifts of soil enzyme activities in wetlands exposed to elevated CO2. Science of the Total Environment, 2005, 337, 207-212.	8.0	48
35	Export of dissolved organic carbon from peatlands under elevated carbon dioxide levels. Nature, 2004, 430, 195-198.	27.8	543
36	A regulatory role for phenol oxidase during decomposition in peatlands. Soil Biology and Biochemistry, 2004, 36, 1663-1667.	8.8	356

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37	Peatland carbon afflux partitioning reveals that Sphagnum photosynthate contributes to the DOC pool. Plant and Soil, 2004, 259, 345-354.	3.7	64
38	Terrestrial export of organic carbon. Nature, 2002, 415, 862-862.	27.8	212
39	Export of organic carbon from peat soils. Nature, 2001, 412, 785-785.	27.8	837
40	Molecular weight spectra of dissolved organic carbon in a rewetted Welsh peatland and possible implications for water quality. Soil Use and Management, 2001, 17, 106-112.	4.9	32
41	Hydrological Controls on Dissolved Organic Carbon Production and Release from UK Peatlands. Geophysical Monograph Series, 0, , 237-249.	0.1	8