

# Mats B Nilsson

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

5,143  
citations

70961

41  
h-index

114278

63  
g-index

126  
all docs

126  
docs citations

126  
times ranked

6244  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Contemporary carbon accumulation in a boreal oligotrophic minerogenic mire – a significant sink after accounting for all C-fluxes. <i>Global Change Biology</i> , 2008, 14, 2317-2332.                       | 4.2 | 299       |
| 2  | Differentiated availability of geochemical mercury pools controls methylmercury levels in estuarine sediment and biota. <i>Nature Communications</i> , 2014, 5, 4624.  | 5.8 | 148       |
| 3  | A nationwide forest attribute map of Sweden predicted using airborne laser scanning data and field data from the National Forest Inventory. <i>Remote Sensing of Environment</i> , 2017, 194, 447-454.       | 4.6 | 148       |
| 4  | Variability in exchange of CO <sub>2</sub> across 12 northern peatland and tundra sites. <i>Global Change Biology</i> , 2010, 16, 2436-2448.   | 4.2 | 144       |
| 5  | Potential aerobic methane oxidation in a Sphagnum-dominated peatland – Controlling factors and relation to methane emission. <i>Soil Biology and Biochemistry</i> , 1995, 27, 829-837.                       | 4.2 | 119       |
| 6  | Climatic modifiers of the response to nitrogen deposition in peat-forming <i>Sphagnum</i> mosses: a meta-analysis. <i>New Phytologist</i> , 2011, 191, 496-507.  | 3.5 | 117       |
| 7  | Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.   | 4.2 | 113       |
| 8  | Towards a trait-based ecology of wetland vegetation. <i>Journal of Ecology</i> , 2017, 105, 1623-1635.   | 1.9 | 109       |
| 9  | Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. <i>Nature Climate Change</i> , 2020, 10, 555-560.  | 8.1 | 106       |
| 10 | Diurnal variation in methane emission in relation to the water table, soil temperature, climate and vegetation cover in a Swedish acid mire. <i>Biogeochemistry</i> , 1995, 28, 93-114.                      | 1.7 | 101       |
| 11 | A 12-year record reveals pre-growing season temperature and water table level threshold effects on the net carbon dioxide exchange in a boreal fen. <i>Environmental Research Letters</i> , 2014, 9, 055006. | 2.2 | 100       |
| 12 | Growth, production and interspecific competition in <i>Sphagnum</i> : effects of temperature, nitrogen and sulphur treatments on a boreal mire. <i>New Phytologist</i> , 2004, 163, 349-359.                 | 3.5 | 99        |
| 13 | Energy exchange and water budget partitioning in a boreal minerogenic mire. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1-13.  | 1.3 | 94        |
| 14 | Linking variability in soil solution dissolved organic carbon to climate, soil type, and vegetation type. <i>Global Biogeochemical Cycles</i> , 2014, 28, 497-509.   | 1.9 | 91        |
| 15 | Seasonal variation in rates of methane production from peat of various botanical origins: effects of temperature and substrate quality. <i>FEMS Microbiology Ecology</i> , 2000, 33, 181-189.                | 1.3 | 88        |
| 16 | Terrestrial discharges mediate trophic shifts and enhance methylmercury accumulation in estuarine biota. <i>Science Advances</i> , 2017, 3, e1601239.  | 4.7 | 88        |
| 17 | Statistical upscaling of ecosystem CO <sub>2</sub> fluxes across the terrestrial tundra and boreal domain: Regional patterns and uncertainties. <i>Global Change Biology</i> , 2021, 27, 4040-4059.          | 4.2 | 83        |
| 18 | Microbial carbon mineralisation in an acid surface peat: effects of environmental factors in laboratory incubations. <i>Soil Biology and Biochemistry</i> , 1999, 31, 1867-1877.                             | 4.2 | 82        |

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|----|--|-----|-----------|
| 19 | Detecting long-term metabolic shifts using isotopomers: CO <sub>2</sub> -driven suppression of photorespiration in C <sub>3</sub> plants over the 20th century. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15585-15590. | 3.3 | 79        |
| 20 | FLUXNET-CH <sub>4</sub> : a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. <i>Earth System Science Data</i> , 2021, 13, 3607-3689.  | 3.7 | 79        |
| 21 | Standardisation of chamber technique for CO <sub>2</sub> , N <sub>2</sub> O and CH <sub>4</sub> fluxes measurements from terrestrial ecosystems. <i>International Agrophysics</i> , 2018, 32, 569-587.   | 0.7 | 76        |
| 22 | Environmental controls on the CO <sub>2</sub> exchange in north European mires. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 59, 812.  | 0.8 | 75        |
| 23 | Methane emission from Swedish mires: National and regional budgets and dependence on mire vegetation. <i>Journal of Geophysical Research</i> , 2001, 106, 20847-20860.   | 3.3 | 73        |
| 24 | Estimating northern peatland CO <sub>2</sub> exchange from MODIS time series data. <i>Remote Sensing of Environment</i> , 2010, 114, 1178-1189.  | 4.6 | 69        |
| 25 | Monthly gridded data product of northern wetland methane emissions based on upscaling eddy covariance observations. <i>Earth System Science Data</i> , 2019, 11, 1263-1289.  | 3.7 | 69        |
| 26 | Variations in net ecosystem exchange of carbon dioxide in a boreal mire: Modeling mechanisms linked to water table position. <i>Journal of Geophysical Research</i> , 2007, 112, .   | 3.3 | 68        |
| 27 | Standardisation of eddy-covariance flux measurements of methane and nitrous oxide. <i>International Agrophysics</i> , 2018, 32, 517-549.   | 0.7 | 66        |
| 28 | The Full Annual Carbon Balance of Boreal Forests Is Highly Sensitive to Precipitation. <i>Environmental Science and Technology Letters</i> , 2014, 1, 315-319.   | 3.9 | 65        |
| 29 | Abundance and composition of plant biomass as potential controls for mire net ecosystem CO <sub>2</sub> exchange. <i>Botany</i> , 2012, 90, 63-74.   | 0.5 | 64        |
| 30 | Identifying dominant environmental predictors of freshwater wetland methane fluxes across diurnal to seasonal time scales. <i>Global Change Biology</i> , 2021, 27, 3582-3604.   | 4.2 | 59        |
| 31 | Rain events decrease boreal peatland net CO <sub>2</sub> uptake through reduced light availability. <i>Global Change Biology</i> , 2015, 21, 2309-2320.  | 4.2 | 57        |
| 32 | Methane and Carbon Dioxide Concentrations in Bogs and Fens—with Special Reference to the Effects of the Botanical Composition of the Peat. <i>Journal of Ecology</i> , 1993, 81, 615.  | 1.9 | 56        |
| 33 | Towards long-term standardised carbon and greenhouse gas observations for monitoring Europe's terrestrial ecosystems: a review. <i>International Agrophysics</i> , 2018, 32, 439-455.  | 0.7 | 55        |
| 34 | The Sphagnome Project: enabling ecological and evolutionary insights through a genus-level sequencing project. <i>New Phytologist</i> , 2018, 217, 16-25.  | 3.5 | 54        |
| 35 | Production and oxidation of methane in a boreal mire after a decade of increased temperature and nitrogen and sulfur deposition. <i>Global Change Biology</i> , 2010, 16, 2130-2144.   | 4.2 | 53        |
| 36 | Twelve-year interannual and seasonal variability of stream carbon export from a boreal peatland catchment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1851-1866.  | 1.3 | 53        |

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|----|--|-----|-----------|
| 37 | Effect of climatic variability from 1980 to 1997 on simulated methane emission from a boreal mixed mire in northern Sweden. <i>Global Biogeochemical Cycles</i> , 2001, 15, 977-991.   | 1.9 | 51        |
| 38 | COSORE: A community database for continuous soil respiration and other soil-atmosphere greenhouse gas flux data. <i>Global Change Biology</i> , 2020, 26, 7268-7283.   | 4.2 | 50        |
| 39 | Bringing Color into the Picture: Using Digital Repeat Photography to Investigate Phenology Controls of the Carbon Dioxide Exchange in a Boreal Mire. <i>Ecosystems</i> , 2015, 18, 115-131.  | 1.6 | 49        |
| 40 | Stable Carbon Isotopes Reveal Soil-Stream DIC Linkages in Contrasting Headwater Catchments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 149-167.   | 1.3 | 47        |
| 41 | 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.  | 3.5 | 46        |
| 42 | Northern landscapes in transition: Evidence, approach and ways forward using the Krycklan Catchment Study. <i>Hydrological Processes</i> , 2021, 35, e14170.   | 1.1 | 45        |
| 43 | Mercury evasion from a boreal peatland shortens the timeline for recovery from legacy pollution. <i>Scientific Reports</i> , 2017, 7, 16022.   | 1.6 | 44        |
| 44 | ORCHIDEE-PEAT (revision 4596), a model for northern peatland CO <sub>2</sub> and CH <sub>4</sub> , water, and energy fluxes on daily to annual scales. <i>Geoscientific Model Development</i> , 2018, 11, 497-519.                       | 1.3 | 43        |
| 45 | Effects of Nutrient Loading and Mercury Chemical Speciation on the Formation and Degradation of Methylmercury in Estuarine Sediment. <i>Environmental Science &amp; Technology</i> , 2016, 50, 6983-6990.                                | 4.6 | 42        |
| 46 | The effect of temperature and substrate quality on the carbon use efficiency of saprotrophic decomposition. <i>Plant and Soil</i> , 2017, 414, 113-125.  | 1.8 | 41        |
| 47 | PEAT-CLSM: A Specific Treatment of Peatland Hydrology in the NASA Catchment Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2130-2162.  | 1.3 | 40        |
| 48 | Aquatic export of young dissolved and gaseous carbon from a pristine boreal fen: Implications for peat carbon stock stability. <i>Global Change Biology</i> , 2017, 23, 5523-5536.   | 4.2 | 38        |
| 49 | Partitioning of the net CO <sub>2</sub> exchange using an automated chamber system reveals plant phenology as key control of production and respiration fluxes in a boreal peatland. <i>Global Change Biology</i> , 2018, 24, 3436-3451. | 4.2 | 38        |
| 50 | Shifts in mercury methylation across a peatland chronosequence: From sulfate reduction to methanogenesis and syntrophy. <i>Journal of Hazardous Materials</i> , 2020, 387, 121967.   | 6.5 | 38        |
| 51 | Apparent winter CO <sub>2</sub> uptake by a boreal forest due to decoupling. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 23-34.  | 1.9 | 36        |
| 52 | Effects of drought and meteorological forcing on carbon and water fluxes in Nordic forests during the dry summer of 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190516.           | 1.8 | 35        |
| 53 | Altered energy partitioning across terrestrial ecosystems in the European drought year 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190524.  | 1.8 | 35        |
| 54 | Peatland vegetation composition and phenology drive the seasonal trajectory of maximum gross primary production. <i>Scientific Reports</i> , 2018, 8, 8012.  | 1.6 | 34        |

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|----|--|-----|-----------|
| 55 | Effect of the 2018 European drought on methane and carbon dioxide exchange of northern mire ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190517.                             | 1.8 | 34        |
| 56 | Substantial hysteresis in emergent temperature sensitivity of global wetland CH <sub>4</sub> emissions. <i>Nature Communications</i> , 2021, 12, 2266.   | 5.8 | 34        |
| 57 | Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH <sub>4</sub> wetlands. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108528.                  | 1.9 | 33        |
| 58 | Simulation of six years of carbon fluxes for a sedge-dominated oligotrophic minerogenic peatland in Northern Sweden using the McGill Wetland Model (MWM). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 795-807. | 1.3 | 31        |
| 59 | The biophysical climate mitigation potential of boreal peatlands during the growing season. <i>Environmental Research Letters</i> , 2020, 15, 104004.  | 2.2 | 31        |
| 60 | The carbon balance of a managed boreal landscape measured from a tall tower in northern Sweden. <i>Agricultural and Forest Meteorology</i> , 2019, 274, 29-41.   | 1.9 | 29        |
| 61 | Functional diversity and trait composition of vascular plant and <i>Sphagnum</i> moss communities during peatland succession across land uplift regions. <i>Journal of Ecology</i> , 2021, 109, 1774-1789.                               | 1.9 | 29        |
| 62 | Soil frost enhances stream dissolved organic carbon concentrations during episodic spring snow melt from boreal mires. <i>Global Change Biology</i> , 2012, 18, 1895-1903.   | 4.2 | 28        |
| 63 | The Net Landscape Carbon Balance—Integrating terrestrial and aquatic carbon fluxes in a managed boreal forest landscape in Sweden. <i>Global Change Biology</i> , 2020, 26, 2353-2367.   | 4.2 | 28        |
| 64 | Tropical and Boreal Forest—Atmosphere Interactions: A Review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 74, 24.   | 0.8 | 27        |
| 65 | The Influence of Sulphate Deposition on the Seasonal Variation of Peat Pore Water Methyl Hg in a Boreal Mire. <i>PLoS ONE</i> , 2012, 7, e45547.   | 1.1 | 26        |
| 66 | Including hydrological self-regulating processes in peatland models: Effects on peatmoss drought projections. <i>Science of the Total Environment</i> , 2017, 580, 1389-1400.  | 3.9 | 26        |
| 67 | Phylogenetic or environmental control on the elemental and organo-chemical composition of <i>Sphagnum</i> mosses?. <i>Plant and Soil</i> , 2017, 417, 69-85.   | 1.8 | 26        |
| 68 | Refining the role of phenology in regulating gross ecosystem productivity across European peatlands. <i>Global Change Biology</i> , 2020, 26, 876-887.   | 4.2 | 25        |
| 69 | Effects of decadal deposition of nitrogen and sulfur, and increased temperature, on methane emissions from a boreal peatland. <i>Journal of Geophysical Research</i> , 2010, 115, .  | 3.3 | 24        |
| 70 | A dual-inlet, single detector relaxed eddy accumulation system for long-term measurement of mercury flux. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 509-524.  | 1.2 | 24        |
| 71 | Gross primary production controls the subsequent winter CO <sub>2</sub> exchange in a boreal peatland. <i>Global Change Biology</i> , 2016, 22, 4028-4037.   | 4.2 | 23        |
| 72 | The ABCflux database: Arctic boreal CO <sub>2</sub> flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. <i>Earth System Science Data</i> , 2022, 14, 179-208.                    | 3.7 | 22        |

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|----|--|-----|-----------|
| 73 | Simulation of CO <sub>2</sub> and Attribution Analysis at Six European Peatland Sites Using the ECOSSE Model. Water, Air, and Soil Pollution, 2014, 225, 1.  | 1.1 | 21        |
| 74 | Bimodal diel pattern in peatland ecosystem respiration rebuts uniform temperature response. Nature Communications, 2020, 11, 4255.   | 5.8 | 21        |
| 75 | Impact of Canopy Decoupling and Subcanopy Advection on the Annual Carbon Balance of a Boreal Scots Pine Forest as Derived From Eddy Covariance. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 303-325.   | 1.3 | 20        |
| 76 | Headwater Mires Constitute a Major Source of Nitrogen (N) to Surface Waters in the Boreal Landscape. Ecosystems, 2018, 21, 31-44.  | 1.6 | 20        |
| 77 | The effects of temperature and nitrogen and sulfur additions on carbon accumulation in a nutrient-poor boreal mire: Decadal effects assessed using <sup>210</sup> Pb peat chronologies. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 392-403. | 1.3 | 19        |
| 78 | Microbial mineralization of cellulose in frozen soils. Nature Communications, 2017, 8, 1154.   | 5.8 | 19        |
| 79 | Upscaling Northern Peatland CO <sub>2</sub> Fluxes Using Satellite Remote Sensing Data. Remote Sensing, 2021, 13, 818.   | 1.8 | 19        |
| 80 | Forest floor fluxes drive differences in the carbon balance of contrasting boreal forest stands. Agricultural and Forest Meteorology, 2021, 306, 108454.   | 1.9 | 18        |
| 81 | Simulating the Carbon Cycling of Northern Peatlands Using a Land Surface Scheme Coupled to a Wetland Carbon Model (CLASS3W-MWM). Atmosphere - Ocean, 2012, 50, 487-506.  | 0.6 | 17        |
| 82 | Parameter interactions and sensitivity analysis for modelling carbon heat and water fluxes in a natural peatland, using CoupModel v5. Geoscientific Model Development, 2016, 9, 4313-4338.   | 1.3 | 17        |
| 83 | Long-term enhanced winter soil frost alters growing season CO <sub>2</sub> fluxes through its impact on vegetation development in a boreal peatland. Global Change Biology, 2017, 23, 3139-3153.   | 4.2 | 17        |
| 84 | Divergent apparent temperature sensitivity of terrestrial ecosystem respiration. Journal of Plant Ecology, 2014, 7, 419-428.   | 1.2 | 16        |
| 85 | Satellite Determination of Peatland Water Table Temporal Dynamics by Localizing Representative Pixels of A SWIR-Based Moisture Index. Remote Sensing, 2020, 12, 2936.  | 1.8 | 16        |
| 86 | Formation and mobilization of methylmercury across natural and experimental sulfur deposition gradients. Environmental Pollution, 2020, 263, 114398.   | 3.7 | 16        |
| 87 | Holocene carbon and nitrogen accumulation rates in a boreal oligotrophic fen. Holocene, 2017, 27, 811-821.   | 0.9 | 15        |
| 88 | Enhanced winter soil frost reduces methane emission during the subsequent growing season in a boreal peatland. Global Change Biology, 2016, 22, 750-762.   | 4.2 | 14        |
| 89 | High-resolution peat volume change in a northern peatland: Spatial variability, main drivers, and impact on ecohydrology. Ecohydrology, 2019, 12, e2114.   | 1.1 | 14        |
| 90 | Microbial utilization of simple carbon substrates in boreal peat soils at low temperatures. Soil Biology and Biochemistry, 2019, 135, 438-448.   | 4.2 | 14        |

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|-----|---|-----|-----------|
| 91  | Soil-meteorological measurements at ICOS monitoring stations in terrestrial ecosystems. <i>International Agrophysics</i> , 2018, 32, 619-631.   | 0.7 | 14        |
| 92  | Biogeochemical influences on net methylmercury formation proxies along a peatland chronosequence. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 308, 188-203.                          | 1.6 | 12        |
| 93  | The birth and death of lakes on young landscapes. <i>Geophysical Research Letters</i> , 2013, 40, 1340-1344.  | 1.5 | 11        |
| 94  | A Novel Approach for High-Frequency in-situ Quantification of Methane Oxidation in Peatlands. <i>Soil Systems</i> , 2019, 3, 4.   | 1.0 | 10        |
| 95  | Opposing spatial trends in methylmercury and total mercury along a peatland chronosequence trophic gradient. <i>Science of the Total Environment</i> , 2020, 718, 137306.               | 3.9 | 9         |
| 96  | Chronic Atmospheric Reactive Nitrogen Deposition Suppresses Biological Nitrogen Fixation in Peatlands. <i>Environmental Science &amp; Technology</i> , 2021, 55, 1310-1318.             | 4.6 | 9         |
| 97  | Detection of Archaeal Diether Lipid by Gas Chromatography from Humus and Peat. <i>Scandinavian Journal of Forest Research</i> , 1999, 14, 545-551.                                      | 0.5 | 7         |
| 98  | Critical Observations of Gaseous Elemental Mercury Air-Sea Exchange. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006742.   | 1.9 | 7         |
| 99  | Drainage Ditch Cleaning Has No Impact on the Carbon and Greenhouse Gas Balances in a Recent Forest Clear-Cut in Boreal Sweden. <i>Forests</i> , 2022, 13, 842.                          | 0.9 | 7         |
| 100 | Parameterization of mires in a numerical weather prediction model. <i>Water Resources Research</i> , 2014, 50, 8982-8996.   | 1.7 | 6         |
| 101 | Millennia-old organic carbon in a boreal paleosol: chemical properties and their link to mineralizable carbon fraction. <i>Journal of Soils and Sediments</i> , 2016, 16, 85-94.        | 1.5 | 6         |
| 102 | Boreal tree species affect soil organic matter composition and saprotrophic mineralization rates. <i>Plant and Soil</i> , 2019, 441, 173-190.   | 1.8 | 5         |
| 103 | $\text{CO}_2$ fertilization of <i>Sphagnum</i> peat mosses is modulated by water table level and other environmental factors. <i>Plant, Cell and Environment</i> , 2021, 44, 1756-1768. | 2.8 | 5         |
| 104 | Autumn destabilization of deep porewater $\text{CO}_2$ store in a northern peatland driven by turbulent diffusion. <i>Nature Communications</i> , 2021, 12, 6857.                       | 5.8 | 5         |
| 105 | Global $\text{CO}_2$ fertilization of <i>Sphagnum</i> peat mosses via suppression of photorespiration during the twentieth century. <i>Scientific Reports</i> , 2021, 11, 24517.        | 1.6 | 5         |
| 106 | Drone-Based Forest Variables Mapping of ICOS Tower Surroundings. , 2018, , .  |     | 4         |
| 107 | Lateral expansion of northern peatlands calls into question a 1,055 GtC estimate of carbon storage. <i>Nature Geoscience</i> , 2021, 14, 468-469.                                       | 5.4 | 4         |
| 108 | Geochemical and Dietary Drivers of Mercury Bioaccumulation in Estuarine Benthic Invertebrates. <i>Environmental Science &amp; Technology</i> , 2022, 56, 10141-10148.                   | 4.6 | 4         |

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| 109 | A novel belowground in-situ gas labeling approach: CH <sub>4</sub> oxidation in deep peat using passive diffusion chambers and <sup>13</sup> C excess. <i>Science of the Total Environment</i> , 2022, 806, 150457. | 3.9 | 3         |
| 110 | Overstory dynamics regulate the spatial variability in forest-floor CO <sub>2</sub> fluxes across a managed boreal forest landscape. <i>Agricultural and Forest Meteorology</i> , 2022, 318, 108916.                | 1.9 | 3         |
| 111 | Peatland Vegetation Patterns in a Long Term Global Change Experiment Find no Reflection in Belowground Extracellular Enzyme Activities. <i>Wetlands</i> , 2020, 40, 2321-2335.                                      | 0.7 | 2         |
| 112 | Reconciling the Carbon Balance of Northern Sweden Through Integration of Observations and Modelling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035185.                              | 1.2 | 2         |
| 113 | Resource contrast in patterned peatlands increases along a climatic gradient. <i>Ecology</i> , 2010, 91, 100618132138042.   | 1.5 | 1         |