A database and synthesis of northern peatland soil prop nitrogen accumulation

Holocene

24, 1028-1042

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Citation Report

#	Article	IF	Citations
1	Continental fens in western Canada as effective carbon sinks during the Holocene. Holocene, 2014, 24, 1090-1104.	0.9	22
2	Development, carbon accumulation, and radiative forcing of a subarctic fen over the Holocene. Holocene, 2014, 24, 1156-1166.	0.9	26
4	Holocene peatland carbon dynamics in the circum-Arctic region: An introduction. Holocene, 2014, 24, 1021-1027.	0.9	25
5	Carbon accumulation in peat deposits from northern Sweden to northern Germany during the last millennium. Holocene, 2014, 24, 1117-1125.	0.9	6
6	Climatic and autogenic control on Holocene carbon sequestration in ombrotrophic peatlands of maritime Quebec, eastern Canada. Holocene, 2014, 24, 1054-1062.	0.9	23
7	DYPTOP: a cost-efficient TOPMODEL implementation to simulate sub-grid spatio-temporal dynamics of global wetlands and peatlands. Geoscientific Model Development, 2014, 7, 3089-3110.	1.3	69
8	Quantifying Holocene variability in carbon uptake and release since peat initiation in the Hudson Bay Lowlands, Canada. Holocene, 2014, 24, 1063-1074.	0.9	24
9	Holocene peatland initiation, lateral expansion, and carbon dynamics in the Zoige Basin of the eastern Tibetan Plateau. Holocene, 2014, 24, 1137-1145.	0.9	28
10	Holocene carbon dynamics of boreal and subarctic peatlands from QuÃ©bec, Canada. Holocene, 2014, 24, 1043-1053.	0.9	41
11	Impacts of climate and vegetation change on carbon accumulation in a south-central Alaskan peatland assessed with novel organic geochemical techniques. Holocene, 2014, 24, 1146-1155.	0.9	44
12	Hydrological dynamics and fire history of the last 1300 years in western Siberia reconstructed from a high-resolution, ombrotrophic peat archive. Quaternary Research, 2015, 84, 312-325.	1.0	41
13	Dependence of ombrotrophic peat nitrogen on phosphorus and climate. Biogeochemistry, 2015, 125, 11-20.	1.7	16
14	Soil carbon stocks in wetlands of New Zealand and impact of land conversion since European settlement. Wetlands Ecology and Management, 2015, 23, 947-961.	0.7	25
15	Establishment of bryophytes from indigenous sources after disturbance from oil sands mining. Bryologist, 2015, 118, 123.	0.1	17
16	Effects of experimental nitrogen deposition on peatland carbon pools and fluxes: a modelling analysis. Biogeosciences, 2015, 12, 79-101.	1.3	11
17	Detecting long-term metabolic shifts using isotopomers: CO ₂ -driven suppression of photorespiration in C ₃ plants over the 20th century. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15585-15590.	3.3	79
18	The stoichiometry of carbon and nutrients in peat formation. Global Biogeochemical Cycles, 2015, 29, 113-121.	1.9	70
19	Effect of inundation, oxygen and temperature on carbon mineralization in boreal ecosystems. Science of the Total Environment, 2015, 511, 381-392.	3.9	16

#	Article	IF	Citations
20	Drivers of Holocene peatland carbon accumulation across a climate gradient in northeastern North America. Quaternary Science Reviews, 2015, 121, 110-119.	1.4	58
21	A multi-proxy peat study of Holocene vegetation history, bog development, and carbon accumulation on northern Vancouver Island, Pacific coast of Canada. Holocene, 2015, 25, 1165-1178.	0.9	17
22	Significant nonsymbiotic nitrogen fixation in Patagonian ombrotrophic bogs. Global Change Biology, 2015, 21, 2357-2365.	4.2	32
23	Relative Magnitude and Controls of in Situ N₂ and N₂O Fluxes due to Denitrification in Natural and Seminatural Terrestrial Ecosystems Using ¹⁵N Tracers. Environmental Science & Technology, 2015, 49, 14110-14119.	4.6	32
24	Estimation of foliar chlorophyll and nitrogen content in an ombrotrophic bog from hyperspectral data: Scaling from leaf to image. Remote Sensing of Environment, 2015, 169, 270-279.	4.6	84
25	Accumulation of organic carbon over the past 200Âyears in alpine peatlands, northeast China. Environmental Earth Sciences, 2015, 73, 7489-7503.	1.3	19
26	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
27	Quantifying soil carbon accumulation in Alaskan terrestrial ecosystems during the last 15â€¯000 years. Biogeosciences, 2016, 13, 6305-6319.	1.3	5
28	Decadal and long-term boreal soil carbon and nitrogen sequestration rates across a variety of ecosystems. Biogeosciences, 2016, 13, 4315-4327.	1.3	7
29	Climate and peat type in relation to spatial variation of the peatland carbon mass in the Hudson Bay Lowlands, Canada. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1104-1117.	1.3	21
30	A 9600â€year record of water table depth, vegetation and fire inferred from a raised peat bog, Prince Edward Island, Canadian Maritimes. Journal of Quaternary Science, 2016, 31, 512-525.	1.1	7
31	Mitigating wildfire carbon loss in managed northern peatlands through restoration. Scientific Reports, 2016, 6, 28498.	1.6	59
32	Tree encroachment may lead to functionally-significant changes in peatland testate amoeba communities. Soil Biology and Biochemistry, 2016, 98, 18-21.	4.2	28
33	Evaluation of peat and sawdust as permeable reactive barrier materials for stimulating in situ biodegradation of trichloroethene. Journal of Hazardous Materials, 2016, 313, 37-48.	6.5	13
34	Effects of long-term fertilization on peat stoichiometry and associated microbial enzyme activity in an ombrotrophic bog. Biogeochemistry, 2016, 129, 149-164.	1.7	42
35	Quantifying peat carbon accumulation in Alaska using a processâ€based biogeochemistry model. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2172-2185.	1.3	8
36	Relationships between Vegetation Succession, Pore Water Chemistry and CH4 and CO2 Production in a Transitional Mire of Western Siberia (Tyumen Oblast). Wetlands, 2016, 36, 863-874.	0.7	10
37	Effects of permafrost aggradation on peat properties as determined from a panâ€Arctic synthesis of plant macrofossils. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 78-94.	1.3	92

#	Article	IF	Citations
38	Emissions of methane from northern peatlands: a review of management impacts and implications for future management options. Ecology and Evolution, 2016, 6, 7080-7102.	0.8	120
39	Calculating carbon changes in peat soils drained for forestry with four different profile-based methods. Forest Ecology and Management, 2016, 381, 29-36.	1.4	19
40	Net nitrogen mineralization in boreal fens: a potential performance indicator for peatland reclamation. Botany, 2016, 94, 1027-1040.	0.5	13
41	Subfossil peatland trees as proxies for Holocene palaeohydrology and palaeoclimate. Earth-Science Reviews, 2016, 163, 118-140.	4.0	45
42	Circumpolar distribution and carbon storage of thermokarst landscapes. Nature Communications, 2016, 7, 13043.	5.8	343
43	Sandhill Fen, an initial trial for wetland species assembly on in-pit substrates: lessons after three years. Botany, 2016, 94, 1015-1025.	0.5	40
44	Icelandic Inland Wetlands: Characteristics and Extent of Draining. Wetlands, 2016, 36, 759-769.	0.7	17
45	Effect of mineral horizons on spatial distribution of soil properties and N cycling in a mountain peatland. Geoderma, 2016, 273, 73-82.	2.3	9
46	Reconstruction of Holocene carbon dynamics in a large boreal peatland complex, southern Finland. Quaternary Science Reviews, 2016, 142, 1-15.	1.4	32
47	Comparative carbon cycle dynamics of the present and last interglacial. Quaternary Science Reviews, 2016, 137, 15-32.	1.4	26
48	Comparisons of soil nitrogen mass balances for an ombrotrophic bog and a minerotrophic fen in northern Minnesota. Science of the Total Environment, 2016, 550, 880-892.	3.9	30
49	Recent and Holocene climate change controls on vegetation and carbon accumulation in Alaskan coastal muskegs. Quaternary Science Reviews, 2016, 131, 168-178.	1.4	15
50	Stoichiometric response of shrubs and mosses to long-term nutrient (N, P and K) addition in an ombrotrophic peatland. Plant and Soil, 2016, 400, 403-416.	1.8	29
51	A comparison of radiocarbon ages derived from bulk peat and selected plant macrofossils in basal peat cores from circum-arctic peatlands. Quaternary Geochronology, 2016, 31, 53-61.	0.6	29
52	A multi-proxy record of Holocene environmental change, peatland development and carbon accumulation from Staroselsky Moch peatland, Russia. Holocene, 2016, 26, 314-326.	0.9	29
53	Methane emissions dynamics from a constructed fen and reference sites in the Athabasca Oil Sands Region, Alberta. Science of the Total Environment, 2017, 583, 369-381.	3.9	24
54	Hydrological conditions and carbon accumulation rates reconstructed from a mountain raised bog in the Carpathians: A multi-proxy approach. Catena, 2017, 152, 57-68.	2.2	27
55	Holocene peatland and ice-core data constraints on the timing and magnitude of CO ₂ emissions from past land use. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1492-1497.	3.3	34

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56	Paleoenvironment change and its impact on carbon and nitrogen accumulation in the <scp>Z</scp>oige wetland, northeastern <scp>Q</scp>inghaiâ€‹<scp>T</scp>ibetan <scp>P</scp>lateau over the past 14,000 years. Geochemistry, Geophysics, Geosystems, 2017, 18, 1775-1792.	1.0	22
57	Lateral expansion and carbon exchange of a boreal peatland in Finland resulting in 7000 years of positive radiative forcing. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 562-577.	1.3	31
58	Influence of Holocene permafrost aggradation and thaw on the paleoecology and carbon storage of a peatland complex in northwestern Canada. Holocene, 2017, 27, 1391-1405.	0.9	38
59	Phylogenetic or environmental control on the elemental and organo-chemical composition of Sphagnum mosses?. Plant and Soil, 2017, 417, 69-85.	1.8	26
60	Vegetation Succession, Carbon Accumulation and Hydrological Change in Subarctic Peatlands, Abisko, Northern Sweden. Permafrost and Periglacial Processes, 2017, 28, 589-604.	1.5	27
61	Predicting peatland carbon fluxes from nonâ€‹destructive plant traits. Functional Ecology, 2017, 31, 1824-1833.	1.7	28
62	Holocene carbon and nitrogen accumulation rates in a boreal oligotrophic fen. Holocene, 2017, 27, 811-821.	0.9	15
63	Holocene environmental change and development of the nutrient budget of histosols in North Iceland. Plant and Soil, 2017, 418, 437-457.	1.8	16
64	The positive net radiative greenhouse gas forcing of increasing methane emissions from a thawing boreal forestâ€‹wetland landscape. Global Change Biology, 2017, 23, 2413-2427.	4.2	63
65	Insights and issues with estimating northern peatland carbon stocks and fluxes since the Last Glacial Maximum. Earth-Science Reviews, 2017, 165, 59-80.	4.0	91
66	Distribution of lead and mercury in Ontario peatlands. Environmental Pollution, 2017, 231, 890-898.	3.7	12
67	Peatland Ecosystem Processes in the Maritime Antarctic During Warm Climates. Scientific Reports, 2017, 7, 12344.	1.6	17
68	Estimation and Uncertainty of Recent Carbon Accumulation and Vertical Accretion in Drained and Undrained Forested Peatlands of the Southeastern USA. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2563-2579.	1.3	22
69	Peatlands in a eutrophic world â€“ Assessing the state of a poor fen-bog transition in southern Ontario, Canada, after long term nutrient input and altered hydrological conditions. Soil Biology and Biochemistry, 2017, 114, 131-144.	4.2	11
70	Mineral nitrogen and phosphorus pools affected by water table lowering and warming in a boreal forested peatland. Ecohydrology, 2017, 10, e1893.	1.1	37
71	Deep peat warming increases surface methane and carbon dioxide emissions in a black spruceâ€‹dominated ombrotrophic bog. Global Change Biology, 2017, 23, 5398-5411.	4.2	52
72	Highly anomalous accumulation rates of C and N recorded by a relic, free-floating peatland in Central Italy. Scientific Reports, 2017, 7, 43040.	1.6	22
73	A probabilistic method of assessing carbon accumulation rate at Imnavait Creek Peatland, Arctic Long Term Ecological Research Station, Alaska. Journal of Quaternary Science, 2017, 32, 579-586.	1.1	5

#	Article	IF	Citations
74	Growing season carbon gas exchange from peatlands used as a source of vegetation donor material for restoration. Wetlands Ecology and Management, 2017, 25, 501-515.	0.7	10
75	Hydrological changes in the Rzecin peatland (Puszcza Notecka, Poland) induced by anthropogenic factors: Implications for mire development and carbon sequestration. Holocene, 2017, 27, 651-664.	0.9	19
76	Holocene fenâ€“bog transitions, current status in Finland and future perspectives. Holocene, 2017, 27, 752-764.	0.9	42
77	Peatland plant communities under global change: negative feedback loops counteract shifts in species composition. Ecology, 2017, 98, 150-161.	1.5	26
78	Rapid carbon loss and slow recovery following permafrost thaw in boreal peatlands. Global Change Biology, 2017, 23, 1109-1127.	4.2	70
79	Permafrost Thaw and Liberation of Inorganic Nitrogen in Eastern Siberia. Permafrost and Periglacial Processes, 2017, 28, 605-618.	1.5	43
80	The initiation and development of small peatâ€forming ecosystems adjacent to lakes in the north central Canadian low arctic during the Holocene. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1672-1688.	1.3	2
81	Modelling Holocene peatland dynamics with an individual-based dynamic vegetation model. Biogeosciences, 2017, 14, 2571-2596.	1.3	20
82	Modelling past, present and future peatland carbon accumulation across the pan-Arctic region. Biogeosciences, 2017, 14, 4023-4044.	1.3	36
83	Growing season CH₄ and N₂O fluxes from a subarctic landscape in northern Finland; from chamber to landscape scale. Biogeosciences, 2017, 14, 799-815.	1.3	22
84	Temporal and Spatial Variation in Peatland Carbon Cycling and Implications for Interpreting Responses of an Ecosystemâ€Scale Warming Experiment. Soil Science Society of America Journal, 2017, 81, 1668-1688.	1.2	34
85	The impact of a black spruce (Picea mariana) plantation on carbon exchange in a cutover peatland in Western Canada. Canadian Journal of Forest Research, 2018, 48, 388-398.	0.8	3
86	Distribution of nitrous oxide emissions from managed organic soils under different land uses estimated by the peat C/N ratio to improve national GHG inventories. Science of the Total Environment, 2018, 631-632, 23-26.	3.9	23
87	Quantifying peat hydrodynamic properties and their influence on water table depths in peatlands of southern Quebec (Canada). Ecohydrology, 2018, 11, e1976.	1.1	9
88	A geospatial model to quantify mean thickness of peat in cranberry bogs. Geoderma, 2018, 319, 122-131.	2.3	13
89	Biotic and Abiotic Drivers of Peatland Growth and Microtopography: A Model Demonstration. Ecosystems, 2018, 21, 1196-1214.	1.6	15
90	Short and Longâ€Term Controls on Active Layer and Permafrost Carbon Turnover Across the Arctic. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 372-390.	1.3	21
91	The Role of Peatlands and Their Carbon Storage Function in the Context of Climate Change. GeoPlanet: Earth and Planetary Sciences, 2018, , 169-187.	0.2	37

#	Article	IF	Citations
92	Biochemical determinants of litter quality in 15 species of Sphagnum. Plant and Soil, 2018, 425, 161-176.	1.8	46
93	Partitioning of the net <scp>CO</scp>₂ exchange using an automated chamber system reveals plant phenology as key control of production and respiration fluxes in a boreal peatland. Global Change Biology, 2018, 24, 3436-3451.	4.2	38
94	The underappreciated potential of peatlands in global climate change mitigation strategies. Nature Communications, 2018, 9, 1071.	5.8	418
95	Headwater Mires Constitute a Major Source of Nitrogen (N) to Surface Waters in the Boreal Landscape. Ecosystems, 2018, 21, 31-44.	1.6	20
96	Drainage and fertilization effects on nutrient availability in an ombrotrophic peatland. Science of the Total Environment, 2018, 621, 1255-1263.	3.9	19
97	Holocene development and permafrost history in subâ€arctic peatlands in Tavvavuoma, northern Sweden. Boreas, 2018, 47, 454-468.	1.2	12
98	Pyrogenic Carbon Contributes Substantially to Carbon Storage in Intact and Degraded Northern Peatlands. Land Degradation and Development, 2018, 29, 2082-2091.	1.8	35
99	Impact of Salinity, Hydrology and Vegetation on Long-Term Carbon Accumulation in a Saline Boreal Peatland and its Implication for Peatland Reclamation in the Athabasca Oil Sands Region. Wetlands, 2018, 38, 373-382.	0.7	13
100	From past to future: impact of climate change on range shifts and genetic diversity patterns of circumboreal plants. Regional Environmental Change, 2018, 18, 409-424.	1.4	20
101	Impact of winter roads on boreal peatland carbon exchange. Global Change Biology, 2018, 24, e201-e212.	4.2	37
102	Natural climate solutions for the United States. Science Advances, 2018, 4, eaat1869.	4.7	333
103	Airborne Hyperspectral Evaluation of Maximum Gross Photosynthesis, Gravimetric Water Content, and CO2 Uptake Efficiency of the Mer Bleue Ombrotrophic Peatland. Remote Sensing, 2018, 10, 565.	1.8	23
104	Nutrient supply rates in a boreal extremeâ€rich fen using ion exchange membranes. Ecohydrology, 2018, 11, e1995.	1.1	4
106	The impact of climate changes during the last 6000â€¯years on a small peatland in North-Eastern Poland: A multi-proxy study. Review of Palaeobotany and Palynology, 2018, 259, 81-92.	0.8	8
107	Inconsistent Response of Arctic Permafrost Peatland Carbon Accumulation to Warm Climate Phases. Global Biogeochemical Cycles, 2018, 32, 1605-1620.	1.9	26
108	The Stoichiometry of Carbon, Hydrogen, and Oxygen in Peat. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 3101-3110.	1.3	13
109	Short-term effects of fen peatland restoration through the moss layer transfer technique on the soil CO2 and CH4 efflux. Ecological Engineering, 2018, 125, 149-158.	1.6	15
110	Environmental and taxonomic controls of carbon and oxygen stable isotope composition in <i>Sphagnum</i> across broad climatic and geographic ranges. Biogeosciences, 2018, 15, 5189-5202.	1.3	25

#	Article	IF	Citations
111	Holocene development of subarctic permafrost peatlands in Finnmark, northern Norway. Holocene, 2018, 28, 1855-1869.	0.9	17
112	Mapping Peatlands in Boreal and Tropical Ecoregions. , 2018, , 24-44.		10
113	Latitudinal limits to the predicted increase of the peatland carbon sink with warming. Nature Climate Change, 2018, 8, 907-913.	8.1	188
114	Thermodynamic Control of the Carbon Budget of a Peatland. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1863-1878.	1.3	14
115	Peatland vegetation composition and phenology drive the seasonal trajectory of maximum gross primary production. Scientific Reports, 2018, 8, 8012.	1.6	34
116	Plant community composition along a peatland margin follows alternate successional pathways after hydrologic disturbance. Acta Oecologica, 2018, 91, 65-72.	0.5	16
117	Peat decomposability in managed organic soils in relation to land use, organic matter composition and temperature. Biogeosciences, 2018, 15, 703-719.	1.3	45
118	Wildfire as a major driver of recent permafrost thaw in boreal peatlands. Nature Communications, 2018, 9, 3041.	5.8	168
119	Estimating Peatland Water Table Depth and Net Ecosystem Exchange: A Comparison between Satellite and Airborne Imagery. Remote Sensing, 2018, 10, 687.	1.8	33
120	Potential carbon loss associated with post-settlement wetland conversion in southern Ontario, Canada. Carbon Balance and Management, 2018, 13, 6.	1.4	23
121	Mineral dust as a driver of carbon accumulation in northern latitudes. Scientific Reports, 2018, 8, 6876.	1.6	26
122	Carbon dioxide and methane exchange at a post-extraction, unrestored peatland. Ecological Engineering, 2018, 122, 241-251.	1.6	27
123	Local Spatial Heterogeneity of Holocene Carbon Accumulation throughout the Peat Profile of an Ombrotrophic Northern Minnesota Bog. Radiocarbon, 2018, 60, 941-962.	0.8	15
124	Nitrogen Retention by Sphagnum fuscum in Laboratory Mesocosms: Responses to Experimentally Added NH4+-N and NO3â˜'-N. Wetlands, 2019, 39, 79-85.	0.7	3
125	Development of a subarctic peatland linked to slope dynamics at Lac WiyÃ¢shÃ¢kimÃ® (Nunavik, Canada). Holocene, 2019, 29, 1459-1467.	0.9	3
126	Modelling northern peatland area and carbon dynamics since the Holocene with the ORCHIDEE-PEAT land surface model (SVN r5488). Geoscientific Model Development, 2019, 12, 2961-2982.	1.3	18
127	Peatland formation, succession and carbon accumulation at a mid-elevation poor fen in Pacific Canada. Holocene, 2019, 29, 1694-1707.	0.9	9
128	Contrasting Temperature Sensitivity of CO₂ Exchange in Peatlands of the Hudson Bay Lowlands, Canada. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2126-2143.	1.3	17

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129	10,000 years of climate control over carbon accumulation in an Iberian bog (southwestern Europe). Geoscience Frontiers, 2019, 10, 1521-1533.	4.3	15
130	PEATâ€CLSM: A Specific Treatment of Peatland Hydrology in the NASA Catchment Land Surface Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 2130-2162.	1.3	40
131	Peatlands as prolific carbon sinks. Nature Geoscience, 2019, 12, 880-881.	5.4	19
132	Intact and managed peatland soils as a source and sink of GHGs from 1850 to 2100. Nature Climate Change, 2019, 9, 945-947.	8.1	137
133	2000 years of variability in hydroclimate and carbon accumulation in western Siberia and the relationship with large-scale atmospheric circulation: A multi-proxy peat record. Quaternary Science Reviews, 2019, 226, 105948.	1.4	25
134	Always on the tipping point â€“ A search for signals of past societies and related peatland ecosystem critical transitions during the last 6500 years in N Poland. Quaternary Science Reviews, 2019, 225, 105954.	1.4	32
135	Rapid expansion of northern peatlands and doubled estimate of carbon storage. Nature Geoscience, 2019, 12, 917-921.	5.4	161
136	Longâ€Term Measurements of Methane Ebullition From Thaw Ponds. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2208-2221.	1.3	27
137	Validation of Airborne Hyperspectral Imagery from Laboratory Panel Characterization to Image Quality Assessment: Implications for an Arctic Peatland Surrogate Simulation Site. Canadian Journal of Remote Sensing, 2019, 45, 476-508.	1.1	20
138	Strong legacy effect of peat composition on physicochemical properties of reclamation coversoil. Canadian Journal of Soil Science, 2019, 99, 244-253.	0.5	3
139	Comparative vegetation survey with focus on cryptogamic covers in the high Arctic along two differing catenas. Polar Biology, 2019, 42, 2131-2145.	0.5	11
140	Structural and functional differentiation of the microbial community in the surface and subsurface peat of two minerotrophic fens in China. Plant and Soil, 2019, 437, 21-40.	1.8	22
141	A multi-proxy reconstruction of moisture dynamics in a peatland ecosystem: A case study from ÄŒepkeliai, Lithuania. Ecological Indicators, 2019, 106, 105484.	2.6	6
142	Contemporary, modern and ancient carbon fluxes in the Zoige peatlands on the Qinghai-Tibetan Plateau. Geoderma, 2019, 352, 138-149.	2.3	11
143	Sustainable management of cultivated peatlands in Switzerland: Insights, challenges, and opportunities. Land Use Policy, 2019, 87, 104019.	2.5	22
144	Holocene Ecohydrological Variability on the East Coast of Kamchatka. Frontiers in Earth Science, 2019, 7, .	0.8	1
145	Temperature influence on peatland carbon accumulation over the last century in Northeast China. Climate Dynamics, 2019, 53, 2161-2173.	1.7	9
146	Digital mapping of peatlands â€“ A critical review. Earth-Science Reviews, 2019, 196, 102870.	4.0	102

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147	Highâ€resolution peat volume change in a northern peatland: Spatial variability, main drivers, and impact on ecohydrology. Ecohydrology, 2019, 12, e2114.	1.1	14
148	The Impact of Peatland Restoration on Local Climate: Restoration of a Cool Humid Island. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1696-1713.	1.3	14
149	Microbial utilization of simple carbon substrates in boreal peat soils at low temperatures. Soil Biology and Biochemistry, 2019, 135, 438-448.	4.2	14
150	Study of Jinchuan Mire in NE China II: Peatland development, carbon accumulation and climate change during the past 1000 years. Quaternary International, 2019, 528, 18-29.	0.7	9
151	Shrub abundance contributes to shifts in dissolved organic carbon concentration and chemistry in a continental bog exposed to drainage and warming. Ecohydrology, 2019, 12, e2100.	1.1	13
152	Diatom community responses to longâ€term multiple stressors at Lake Gusinoye, Siberia. Geo: Geography and Environment, 2019, 6, e00072.	0.5	2
153	Peatland development and environmental change during the past 1600 years in Baijianghe Mire of Changbai Mountains, China. Quaternary International, 2019, 528, 41-52.	0.7	13
154	Holocene Vegetation, Climate, and Carbon History on Western Kodiak Island, Alaska. Frontiers in Earth Science, 2019, 7, .	0.8	3
155	A Novel Approach for High-Frequency in-situ Quantification of Methane Oxidation in Peatlands. Soil Systems, 2019, 3, 4.	1.0	10
156	Peatland initiation and carbon accumulation in the Falkland Islands. Quaternary Science Reviews, 2019, 212, 213-218.	1.4	16
157	Warming impacts on boreal fen CO₂ exchange under wet and dry conditions. Global Change Biology, 2019, 25, 1995-2008.	4.2	56
158	Recent peat and carbon accumulation following the Little Ice Age in northwestern QuÃ©bec, Canada. Environmental Research Letters, 2019, 14, 075002.	2.2	24
159	Modeling Climate Change Impacts on an Arctic Polygonal Tundra: 2. Changes in CO₂ and CH₄ Exchange Depend on Rates of Permafrost Thaw as Affected by Changes in Vegetation and Drainage. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1323-1341.	1.3	15
160	The Spatial Heterogeneity of Vegetation, Hydrology and Water Chemistry in a Peatland with Open-Water Pools. Ecosystems, 2019, 22, 1352-1367.	1.6	14
161	Postglacial wetland succession, carbon accumulation, and forest dynamics on the east coast of Vancouver Island, British Columbia, Canada. Quaternary Research, 2019, 92, 232-245.	1.0	4
162	Cushion bogs are stronger carbon dioxide net sinks than moss-dominated bogs as revealed by eddy covariance measurements on Tierra del Fuego, Argentina. Biogeosciences, 2019, 16, 3397-3423.	1.3	16
163	The weathering of volcanic tephra and how they impact histosol development. An example from South East Iceland. Catena, 2019, 172, 634-646.	2.2	15
164	Plant and Soil Nitrogen in an Ombrotrophic Peatland, Southern Canada. Ecosystems, 2020, 23, 98-110.	1.6	15

#	Article	IF	Citations
165	It's in your glass: a history of sea level and storminess from the Laphroaig bog, Islay (southwestern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.2	13
166	The capacity of northern peatlands for long-term carbon sequestration. Biogeosciences, 2020, 17, 47-54.	1.3	23
167	Fluvial CO 2 and CH 4 patterns across wildfireâ€disturbed ecozones of subarctic Canada: Current status and implications for future change. Global Change Biology, 2020, 26, 2304-2319.	4.2	22
168	Carbon storage change and Î´13C transitions of peat columns in a partially forestry-drained boreal bog. Plant and Soil, 2020, 447, 365-378.	1.8	5
169	Land use-driven historical soil carbon losses in Swiss peatlands. Landscape Ecology, 2020, 35, 173-187.	1.9	8
170	Peatland Vegetation Patterns in a Long Term Global Change Experiment Find no Reflection in Belowground Extracellular Enzyme Activities. Wetlands, 2020, 40, 2321-2335.	0.7	2
171	The Canadian model for peatlands (CaMP): A peatland carbon model for national greenhouse gas reporting. Ecological Modelling, 2020, 431, 109164.	1.2	19
172	Spatially varying peatland initiation, Holocene development, carbon accumulation patterns and radiative forcing within a subarctic fen. Quaternary Science Reviews, 2020, 248, 106596.	1.4	21
173	Geoâ€hydromorphological assessment of Europe's southernmost blanket bogs. Earth Surface Processes and Landforms, 2020, 45, 2747-2760.	1.2	4
174	Peat Properties and Holocene Carbon and Nitrogen Accumulation Rates in a Peatland in the Xinjiang Altai Mountains, Northwestern China. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005615.	1.3	3
175	Ecological response of a glacier-fed peatland to late Holocene climate and glacier changes on subantarctic South Georgia. Quaternary Science Reviews, 2020, 250, 106679.	1.4	3
176	Large stocks of peatland carbon and nitrogen are vulnerable to permafrost thaw. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20438-20446.	3.3	307
177	Recent Changes in Peatland Testate Amoeba Functional Traits and Hydrology Within a Replicated Site Network in Northwestern QuÃ©bec, Canada. Frontiers in Ecology and Evolution, 2020, 8, .	1.1	7
178	Bimodal diel pattern in peatland ecosystem respiration rebuts uniform temperature response. Nature Communications, 2020, 11, 4255.	5.8	21
179	Effects of water level alteration on carbon cycling in peatlands. Ecosystem Health and Sustainability, 2020, 6, .	1.5	47
180	Modeling Holocene Peatland Carbon Accumulation in North America. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005230.	1.3	5
181	Are peatlands cool humid islands in a landscape?. Hydrological Processes, 2020, 34, 5013-5025.	1.1	4
182	Carbon and nitrogen accumulation rates in ombrotrophic peatlands of central and northern Alberta, Canada, during the last millennium. Biogeochemistry, 2020, 151, 251-272.	1.7	6

#	Article	IF	Citations
183	Falkland Island peatland development processes and the pervasive presence of fire. Quaternary Science Reviews, 2020, 240, 106391.	1.4	9
184	Soil organic matter stoichiometry as indicator for peatland degradation. Scientific Reports, 2020, 10, 7634.	1.6	50
185	Development and testing scenarios for implementing land use and land cover changes during the Holocene in Earth system model experiments. Geoscientific Model Development, 2020, 13, 805-824.	1.3	36
186	Rewetting Offers Rapid Climate Benefits for Tropical and Agricultural Peatlands But Not for Forestryâ€Drained Peatlands. Global Biogeochemical Cycles, 2020, 34, e2019GB006503.	1.9	23
187	Postglacial history of East European boreal forests in the midâ€Kama region, preâ€Urals, Russia. Boreas, 2020, 49, 526-543.	1.2	6
188	Carbon storage dynamics in peatlands: Comparing recentâ€•and longâ€•term accumulation histories in southern Patagonia. Global Change Biology, 2020, 26, 5778-5795.	4.2	19
189	Long-Term Carbon Sequestration in Boreal Forested Peatlands in Eastern Canada. Ecosystems, 2020, 23, 1481-1493.	1.6	13
190	Longâ€•term Impacts of Permafrost Thaw on CarbonÂStorage in Peatlands: Deep Losses Offset by Surficial Accumulation. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005501.	1.3	30
191	Carbon Accumulation in Freshwater Marsh Soils: a Synthesis for Temperate North America. Wetlands, 2020, 40, 1173-1187.	0.7	15
192	Decreased carbon accumulation feedback driven by climateâ€induced drying of two southern boreal bogs over recent centuries. Global Change Biology, 2020, 26, 2435-2448.	4.2	40
193	Exceptional hydrological stability of a Sphagnum-dominated peatland over the late Holocene. Quaternary Science Reviews, 2020, 231, 106180.	1.4	21
194	Diatoms in Paleoenvironmental Studies of Peatlands. Quaternary, 2020, 3, 10.	1.0	12
195	Modelling past and future peatland carbon dynamics across the panâ€Arctic. Global Change Biology, 2020, 26, 4119-4133.	4.2	58
196	The distribution of long-chain n-alkan-2-ones in peat can be used to infer past changes in pH. Chemical Geology, 2020, 544, 119622.	1.4	9
197	A regime shift from erosion to carbon accumulation in a temperate northern peatland. Journal of Ecology, 2021, 109, 125-138.	1.9	8
198	Environmental controls over Holocene carbon accumulation in Distichia muscoides-dominated peatlands in the eastern Andes of Colombia. Quaternary Science Reviews, 2021, 251, 106687.	1.4	6
199	Linking testate amoeba assemblages to paleohydrology and ecosystem function in Holocene peat records from the Hudson Bay Lowlands, Ontario, Canada. Holocene, 2021, 31, 457-468.	0.9	9
200	Plant succession and geochemical indices in immature peatlands in the Changbai Mountains, northeastern region of China: Implications for climate change and peatland development. Science of the Total Environment, 2021, 773, 143776.	3.9	7

#	Article	IF	Citations
201	Revisiting water retention curves for simple hydrological modelling of peat. Hydrological Sciences Journal, 2021, 66, 252-267.	1.2	3
202	Environmental drivers of Sphagnum growth in peatlands across the Holarctic region. Journal of Ecology, 2021, 109, 417-431.	1.9	32
204	Peat deposits store more carbon than trees in forested peatlands of the boreal biome. Scientific Reports, 2021, 11, 2657.	1.6	47
205	Permafrost Thaw in Northern Peatlands: Rapid Changes in Ecosystem and Landscape Functions. Ecological Studies, 2021, , 27-67.	0.4	11
206	An evaluation of water quality at Sandhill Wetland: implications for reclaiming wetlands above soft tailings deposits in northern Alberta, Canada. Wetlands Ecology and Management, 2021, 29, 111-127.	0.7	8
207	Long-term and recent ecohydrological dynamics of patterned peatlands in north-central Quebec (Canada). Holocene, 2021, 31, 844-857.	0.9	19
208	Carbon accumulation in peatlands along a boreal to subarctic transect in eastern Canada. Holocene, 2021, 31, 858-869.	0.9	20
209	Functional diversity and trait composition of vascular plant and Sphagnum moss communities during peatland succession across land uplift regions. Journal of Ecology, 2021, 109, 1774-1789.	1.9	29
210	Spatiotemporal patterns of northern lake formation since the Last Glacial Maximum. Quaternary Science Reviews, 2021, 253, 106773.	1.4	23
211	Carbon cycle dynamics during episodes of rapid climate change. Environmental Research Letters, 2021, 16, 040201.	2.2	1
212	Time, Hydrologic Landscape, and the Longâ€Term Storage of Peatland Carbon in Sedimentary Basins. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005762.	1.0	7
213	<scp>CO₂</scp> fertilization of Sphagnum peat mosses is modulated by water table level and other environmental factors. Plant, Cell and Environment, 2021, 44, 1756-1768.	2.8	5
214	Soil Respiration in Alder Swamp (Alnus glutinosa) in Southern Taiga of European Russia Depending on Microrelief. Forests, 2021, 12, 496.	0.9	10
215	Ecohydrological controls on apparent rates of peat carbon accumulation in a boreal bog record from the Hudson Bay Lowlands, northern Ontario, Canada. Quaternary Research, 2021, 104, 14-27.	1.0	4
216	Peat depth as a control onSphagnummoisture stress during seasonal drought. Hydrological Processes, 2021, 35, e14117.	1.1	9
217	The role of wetland expansion and successional processes in methane emissions from northern wetlands during the Holocene. Quaternary Science Reviews, 2021, 257, 106864.	1.4	15
218	Juxtaposing the spatiotemporal drivers of sediment CO2, CH4, and N2O effluxes along ecoregional, wet-dry, and diurnal gradients. Atmospheric Pollution Research, 2021, 12, 160-171.	1.8	2
219	Northern landscapes in transition: Evidence, approach and ways forward using the Krycklan Catchment Study. Hydrological Processes, 2021, 35, e14170.	1.1	45

#	Article	IF	Citations
220	The impacts of volcanic eruptions and climate changes on the development of Hani peatland in northeastern China during the Holocene. Journal of Asian Earth Sciences, 2021, 210, 104691.	1.0	5
222	Mapping and understanding the vulnerability of northern peatlands to permafrost thaw at scales relevant to community adaptation planning. Environmental Research Letters, 2021, 16, 055022.	2.2	13
223	9000 years of changes in peat organic matter composition in Store Mosse (Sweden) traced using FTIRâ€ATR. Boreas, 2021, 50, 1161-1178.	1.2	12
224	Accelerated vegetation succession but no hydrological change in a boreal fen during 20Âyears of recent climate change. Ecology and Evolution, 2021, 11, 7602-7621.	0.8	21
225	Fungi are more sensitive than bacteria to drainage in the peatlands of the Zoige Plateau. Ecological Indicators, 2021, 124, 107367.	2.6	19
226	Diversity of Testate Amoebae as an Indicator of the Conservation Status of Peatlands in Southwest Europe. Diversity, 2021, 13, 269.	0.7	10
227	J. E. Nichols and D. M. Peteet reply. Nature Geoscience, 2021, 14, 470-472.	5.4	1
228	No support for carbon storage of >1,000 GtC in northern peatlands. Nature Geoscience, 2021, 14, 465-467.	5.4	8
229	Distribution of carbon and nitrogen cycle microbes along permafrost peatland profile in Northeast China. Environmental Progress and Sustainable Energy, 2021, 40, .	1.3	7
230	The Use of Subsidence to Estimate Carbon Loss from Deforested and Drained Tropical Peatlands in Indonesia. Forests, 2021, 12, 732.	0.9	11
231	Aged soils contribute little to contemporary carbon cycling downstream of thawing permafrost peatlands. Global Change Biology, 2021, 27, 5368-5382.	4.2	9
232	Hydroclimate variation during the Mystery Interval in the East Asian Summer Monsoon area. Quaternary Science Reviews, 2021, 266, 107075.	1.4	3
233	Chronic atmospheric reactive N deposition has breached the N sink capacity of a northern ombrotrophic peatbog increasing the gaseous and fluvial N losses. Science of the Total Environment, 2021, 787, 147552.	3.9	1
234	â€œTriple locksâ€•on soil organic carbon exerted by sphagnum acid in wetlands. Geochimica Et Cosmochimica Acta, 2021, 315, 24-37.	1.6	6
235	Holocene regional climate change and formation of southern Ontario's largest swamp inferred from a kettle-lake pollen record. Quaternary Research, 0, , 1-19.	1.0	3
236	Holocene peatland development, carbon accumulation and its response to climate forcing and local conditions in Laolike peatland, northeast China. Quaternary Science Reviews, 2021, 268, 107124.	1.4	9
237	Simulation modelling of greenhouse gas balance in continuous-cover forestry of Norway spruce stands on nutrient-rich drained peatlands. Forest Ecology and Management, 2021, 496, 119479.	1.4	13
238	Can nutrient uptake by Carex counteract eutrophication in fen peatlands?. Science of the Total Environment, 2021, 785, 147276.	3.9	8

#	Article	IF	Citations
239	MPeatâ€"A fully coupled mechanicalâ€ecohydrological model of peatland development. Ecohydrology, 2022, 15, e2361.	1.1	3
240	Net ecosystem exchange of carbon dioxide on hayland with drained peat soil in central European Russia: mowing scenario analysis. Archives of Agronomy and Soil Science, 2023, 69, 243-258.	1.3	1
241	An integrated geophysical and GIS based approach improves estimation of peatland carbon stocks. Geoderma, 2021, 402, 115176.	2.3	5
242	Soil carbon loss from drained agricultural peatland after coverage with mineral soil. Science of the Total Environment, 2021, 800, 149498.	3.9	10
243	Large scale mapping of soil organic carbon concentration with 3D machine learning and satellite observations. Geoderma, 2022, 405, 115402.	2.3	46
244	Heating up a cold case: Applications of analytical pyrolysis GC/MS to assess molecular biomarkers in peat. Advances in Agronomy, 2021, , 115-159.	2.4	2
245	The flux of organic matter through a peatland ecosystem: The role of cellulose, lignin, and their control of the ecosystem oxidation state. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1655-1671.	1.3	19
246	Peatlands of Continental North America. , 2016, , 1-6.		1
247	Climate and anthropogenic controls on blue carbon sequestration in Hudson River tidal marsh, Piermont, New York. Environmental Research Letters, 2020, 15, 065001.	2.2	9
248	Shallow peat is most vulnerable to high peat burn severity during wildfire. Environmental Research Letters, 2020, 15, 104032.	2.2	21
249	The biophysical climate mitigation potential of boreal peatlands during the growing season. Environmental Research Letters, 2020, 15, 104004.	2.2	31
250	Peatland initiation in Central European Russia during the Holocene: Effect of climate conditions and fires. Holocene, 2021, 31, 545-555.	0.9	6
251	Microbial nitrogen fixation and methane oxidation are strongly enhanced by light in Sphagnum mosses. AMB Express, 2020, 10, 61.	1.4	16
254	A new dataset of soil carbon and nitrogen stocks and profiles from an instrumented Greenlandic fen designed to evaluate land-surface models. Earth System Science Data, 2020, 12, 2365-2380.	3.7	1
257	Sedimentation and organic content in the mires and other sites of sediment accumulation in the Sydney region, eastern Australia, in the period after the Last Glacial Maximum. Quaternary Science Reviews, 2021, 272, 107216.	1.4	7
260	Peat. Encyclopedia of Earth Sciences Series, 2017, , 1-4.	0.1	0
261	Peatlands of Continental North America. , 2018, , 515-520.		0
262	Peat. Encyclopedia of Earth Sciences Series, 2018, , 1197-1200.	0.1	0

#	Article	IF	Citations
264	Radiocarbon Analyses Quantify Peat Carbon Losses With Increasing Temperature in a Whole Ecosystem Warming Experiment. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006511.	1.3	7
265	Control of carbon and nitrogen accumulation by vegetation in pristine bogs of southern Patagonia. Science of the Total Environment, 2022, 810, 151293.	3.9	5
266	Holocene peat humification and carbon dynamics in the Westerlies-influenced Northwest China. Environmental Research Letters, 2020, 15, 124014.	2.2	2
267	Are peatlands in different states with respect to their thermodynamic behaviour? A simple test of peatland energy and entropy budgets. Hydrological Processes, 0, , e14431.	1.1	0
268	Andic Soil Properties and Tephra Layers Hamper C Turnover in Icelandic Peatlands. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006433.	1.3	4
269	The essential carbon service provided by northern peatlands. Frontiers in Ecology and the Environment, 2022, 20, 222-230.	1.9	27
270	Comparing GHG Emissions from Drained Oil Palm and Recovering Tropical Peatland Forests in Malaysia. Water (Switzerland), 2021, 13, 3372.	1.2	3
271	Vascular plants regulate responses of boreal peatland Sphagnum to climate warming and nitrogen addition. Science of the Total Environment, 2022, 819, 152077.	3.9	5
272	Phosphorus supply affects long-term carbon accumulation in mid-latitude ombrotrophic peatlands. Communications Earth & Environment, 2021, 2, .	2.6	5
273	Lake and drained lake basin systems in lowland permafrost regions. Nature Reviews Earth & Environment, 2022, 3, 85-98.	12.2	41
274	Latitude, Elevation, and Mean Annual Temperature Predict Peat Organic Matter Chemistry at a Global Scale. Global Biogeochemical Cycles, 2022, 36, .	1.9	11
275	Seasonal and Spatial Variability of Biological N₂ Fixation in a Cool Temperate Bog. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	3
276	Large Soil Carbon Storage in Terrestrial Ecosystems of Canada. Global Biogeochemical Cycles, 2022, 36, .	1.9	33
277	Electrochemical Properties of Peat Particulate Organic Matter on a Global Scale: Relation to Peat Chemistry and Degree of Decomposition. Global Biogeochemical Cycles, 2022, 36, .	1.9	7
278	CO2 uptake decreased and CH4 emissions increased in first two years of peatland seismic line restoration. Wetlands Ecology and Management, 2022, 30, 313-329.	0.7	4
279	A Late Holocene Stable Isotope and Carbon Accumulation Record from Teringi Bog in Southern Estonia. Quaternary, 2022, 5, 8.	1.0	0
281	Organo-Chemical Characterisation of Peat Decomposition Reveals Preferential Degradation of Hemicelluloses as Main Cause for Organic Matter Loss in the Acrotelm. SSRN Electronic Journal, 0, , .	0.4	0
282	Biological Nitrogen Fixation and Nitrogen Accumulation in Peatlands. Frontiers in Earth Science, 2022, 10, .	0.8	7

#	Article	IF	Citations
283	Comparison of Soil Nutrient Supply Patterns among Full and Drained Beaver Ponds and Undisturbed Peat in a Rocky Mountain Fen. Wetlands, 2022, 42, 1.	0.7	1
284	Newly initiated carbon stock, organic soil accumulation patterns and main driving factors in the High Arctic Svalbard, Norway. Scientific Reports, 2022, 12, 4679.	1.6	3
285	Anthropogenic warming reduces the carbon accumulation of Tibetan Plateau peatlands. Quaternary Science Reviews, 2022, 281, 107449.	1.4	5
286	Identifying main uncertainties in estimating past and present radiative forcing of peatlands. Global Change Biology, 2022, 28, 4069-4084.	4.2	5
287	The unrecognized importance of carbon stocks and fluxes from swamps in Canada and the USA. Environmental Research Letters, 2022, 17, 053003.	2.2	9
288	Significance of different n-alkane biomarker distributions in four same-age peat sequences around the edges of a small maar lake in China. Science of the Total Environment, 2022, 826, 154137.	3.9	3
289	Widespread recent ecosystem state shifts in highâ€latitude peatlands of northeastern Canada and implications for carbon sequestration. Global Change Biology, 2022, 28, 1919-1934.	4.2	20
290	Carbon accumulation rates of Holocene peatlands in centralâ€“eastern Europe document the driving role of human impact over the past 4000 years. Climate of the Past, 2021, 17, 2633-2652.	1.3	4
291	Global CO2 fertilization of Sphagnum peat mosses via suppression of photorespiration during the twentieth century. Scientific Reports, 2021, 11, 24517.	1.6	5
292	A model intercomparison analysis for controls on C accumulation in North American peatlands. Journal of Geophysical Research G: Biogeosciences, 0, , .	1.3	2
298	Recovering wetland biogeomorphic feedbacks to restore the worldâ€™s biotic carbon hotspots. Science, 2022, 376, eabn1479.	6.0	93
299	Fires, vegetation, and humanâ€”The history of critical transitions during the last 1000 years in Northeastern Mongolia. Science of the Total Environment, 2022, 838, 155660.	3.9	4
300	Late Holocene peat paleodust deposition in south-western Sweden - exploring geochemical properties, local mineral sources and regional aeolian activity. Chemical Geology, 2022, 602, 120881.	1.4	5
301	Graminoids vary in functional traits, carbon dioxide and methane fluxes in a restored peatland: Implications for modelling carbon storage. Journal of Ecology, 2022, 110, 2105-2117.	1.9	3
302	The vertical distribution of soil organic carbon and nitrogen in a permafrostâ€affected wetland on the Qinghaiâ€“Tibet Plateau: Implications for Holocene development and environmental change. Permafrost and Periglacial Processes, 2022, 33, 286-297.	1.5	3
303	Hydrologic Controls on Peat Permafrost and Carbon Processes: New Insights From Past and Future Modeling. Frontiers in Environmental Science, 2022, 10, .	1.5	1
304	Reclaiming Wetlands after Oil Sands Mining in Alberta, Canada: The Changing Vegetation Regime at an Experimental Wetland. Land, 2022, 11, 844.	1.2	3
305	Near surface controls on peatland hydrology: implications for rapid adaptation and enhanced resilience to disturbances. Ecohydrology, 0, , .	1.1	0

#	Article	IF	Citations
306	Climate-driven Holocene ecohydrological and carbon dynamics from maritime peatlands of the Gulf of St. Lawrence, eastern Canada. Holocene, 0, , 095968362210959.	0.9	4
307	Relations of fire, palaeohydrology, vegetation succession, and carbon accumulation, as reconstructed from a mountain bog in the Harz Mountains (Germany) during the last 6200Âyears. Geoderma, 2022, 424, 115991.	2.3	5
308	Holocene and recent fires influence on soil organic matter, microbiological and physico-chemical properties of peats in the European North-East of Russia. Catena, 2022, 217, 106449.	2.2	9
309	Does Shift in Vegetation Abundance After Nitrogen and Phosphorus Additions Play a Key Role in Regulating Fungal Community Structure in a Northern Peatland?. Frontiers in Microbiology, 0, 13, .	1.5	5
310	Hydrology of peat estimated from near-surface water contents. Hydrological Sciences Journal, 2022, 67, 1702-1721.	1.2	3
311	Controls on autotrophic and heterotrophic respiration in an ombrotrophic bog. Biogeosciences, 2022, 19, 3285-3303.	1.3	8
312	Repeated Permafrost Formation and Degradation in Boreal Peatland Ecosystems in Relation to Climate Extremes, Fire, Ecological Shifts, and a Geomorphic Legacy. Atmosphere, 2022, 13, 1170.	1.0	2
313	Improving the evidence base for delivery of public goods from public money in agri-environment schemes. Emerald Open Research, 0, 2, 57.	0.0	2
314	Holocene carbon storage and testate amoeba community structure in treed peatlands of the western Hudson Bay Lowlands margin, Canada. Journal of Quaternary Science, 0, , .	1.1	0
315	Initial effects of post-harvest ditch cleaning on greenhouse gas fluxes in a hemiboreal peatland forest. Geoderma, 2022, 426, 116055.	2.3	5
316	Draft Metagenome Sequences of the Sphagnum (Peat Moss) Microbiome from Ambient and Warmed Environments across Europe. Microbiology Resource Announcements, 0, , .	0.3	0
317	Last millennium hydroclimate and atmospheric circulation change in Northeast China: A dual Î´13C and Î´18O approach from a mountaintop Sphagnum bog. Quaternary Science Reviews, 2022, 295, 107781.	1.4	2
318	Carbon, nitrogen and their stable isotope (Î´¹³C and Î´¹⁵N) records in two peat deposits of Central Siberia: raised bog of middle taiga and palsa of forest-tundra ecotone. IOP Conference Series: Earth and Environmental Science, 2022, 1093, 012007.	0.2	2
319	Soil carbon and nitrogen stocks in polygonal-fissure mires of southern tundra in Western Siberia. IOP Conference Series: Earth and Environmental Science, 2022, 1093, 012024.	0.2	0
320	Ericoid mycorrhizal fungi mediate the response of ombrotrophic peatlands to fertilization: a modeling study. New Phytologist, 2023, 238, 80-95.	3.5	6
321	Long-Term Warming and Nitrogen Addition Regulate Responses of Dark Respiration and Net Photosynthesis in Boreal Bog Plants to Short-Term Increases in CO2 and Temperature. Atmosphere, 2022, 13, 1644.	1.0	0
322	Permafrost and Climate Change: Carbon Cycle Feedbacks From the Warming Arctic. Annual Review of Environment and Resources, 2022, 47, 343-371.	5.6	56
323	Modeling Carbon Accumulation and Permafrost Dynamics of Northern Peatlands Since the Holocene. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	1

#	Article	IF	Citations
324	Research progress and prospects of ecosystem carbon sequestration under climate change (1992â€“2022). Ecological Indicators, 2022, 145, 109656.	2.6	11
325	Organochemical Characterization of Peat Reveals Decomposition of Specific Hemicellulose Structures as the Main Cause of Organic Matter Loss in the Acrotelm. Environmental Science & Technology, 2022, 56, 17410-17419.	4.6	5
326	Improving models to predict holocellulose and Klason lignin contents for peat soil organic matter with mid-infrared spectra. Soil, 2022, 8, 699-715.	2.2	0
327	Storm chasing: Tracking Holocene storminess in southern Sweden using mineral proxies from inland and coastal peat bogs. Quaternary Science Reviews, 2023, 299, 107854.	1.4	9
328	Variation in carbon and nitrogen concentrations among peatland categories at the global scale. PLoS ONE, 2022, 17, e0275149.	1.1	9
329	Delineating the distribution of mineral and peat soils at the landscape scale in northern boreal regions. Soil, 2022, 8, 733-749.	2.2	5
330	Long-Term Carbon Accumulation in Temperate Swamp Soils: a Case Study from Greenock Swamp, Ontario, Canada. Wetlands, 2022, 42, .	0.7	1
331	The ÅšnieÅ¼ka peatland as a candidate Global boundary Stratotype Section and Point for the Anthropocene series. Infrastructure Asset Management, 2023, 10, 288-315.	1.2	2
332	Holocene wet shifts in NW European bogs: evidence for the roles of external forcing and internal feedback from a highâ€resolution study of peat properties, plant macrofossils and testate amoebae. Journal of Quaternary Science, 2023, 38, 423-439.	1.1	2
333	Reduced nitrogen losses from drained temperate agricultural peatland after mineral soil coverage. Biology and Fertility of Soils, 0, , .	2.3	0
334	Peatlands and their carbon dynamics in northern high latitudes from 1990 to 2300: a process-based biogeochemistry model analysis. Biogeosciences, 2023, 20, 251-270.	1.3	6
335	The impact of severe pollution from smelter emissions on carbon and metal accumulation in peatlands in Ontario, Canada. Environmental Pollution, 2023, 320, 121102.	3.7	5
336	Water level variation at a beaver pond significantly impacts net CO₂ uptake of a continental bog. Hydrology and Earth System Sciences, 2023, 27, 213-227.	1.9	6
337	Radiocarbon dating of wetland sediment from the Konsen Plateau, eastern Hokkaido, Japan. Nuclear Instruments & Methods in Physics Research B, 2023, 536, 67-71.	0.6	0
338	Using Holocene paleo-fire records to estimate carbon stock vulnerabilities in Hudson Bay Lowlands peatlands. Facets, 2023, 8, 1-26.	1.1	0
339	Neodymium isotopes in peat reveal past local environmental disturbances. Science of the Total Environment, 2023, 871, 161859.	3.9	1
340	Modelling the influence of mechanical-ecohydrological feedback on the nonlinear dynamics of peatlands. Ecological Modelling, 2023, 478, 110299.	1.2	0
341	Holocene vegetation dynamics of circum-Arctic permafrost peatlands. Quaternary Science Reviews, 2023, 307, 108055.	1.4	2

#	Article	IF	Citations
342	Terrestrial CO2 exchange diagnosis using a peatland-optimized vegetation photosynthesis and respiration model (VPRM) for the Hudson Bay Lowlands. Science of the Total Environment, 2023, 875, 162591.	3.9	0
343	Optimizing radiocarbon chronologies in peat profiles with examples from Xinjiang, China. Quaternary Geochronology, 2023, 76, 101441.	0.6	0
344	Landscape constraints on mire lateral expansion. Quaternary Science Reviews, 2023, 302, 107961.	1.4	5
345	High greenhouse gas emissions after grassland renewal on bog peat soil. Agricultural and Forest Meteorology, 2023, 331, 109309.	1.9	4
346	The High-Elevation Peatlands of the Northern Andes, Colombia. Plants, 2023, 12, 955.	1.6	4
347	ä¸å…¨æ–°ä¸–»¥æ¥ç™½2æ±Ÿæ²³æ³¥ç‚æ21¼æ31½çš„å€è‚²è¿‡ç¨‹åŠå…¶æŽ§å¶¶å›ç´. SCIENTIA SINICA Terrae, 2023, 53, 572-586.	0.5	0
348	The development process of a temperate montane peatland and its controlling factors since the middle Holocene. Science China Earth Sciences, 2023, 66, 594-608.	2.3	2
349	Hot moment of N2O emissions in seasonally frozen peatlands. ISME Journal, 2023, 17, 792-802.	4.4	3
350	How much organic carbon have UK lakes stored in the Holocene? A preliminary estimate. Holocene, 2023, 33, 746-755.	0.9	1
351	Chemical stability of carbon pool in peatlands dominated by different plant types in Jilin province (China) and its potential influencing factors. Frontiers in Ecology and Evolution, 0, 11, .	1.1	0
352	Non-climate environmental factors matter to Holocene dynamics of soil organic carbon and nitrogen in an alpine permafrost wetland, Qinghaiâ€'Tibet Plateau. Advances in Climate Change Research, 2023, , .	2.1	1
382	Practical Guide to Measuring Wetland Carbon Pools and Fluxes. Wetlands, 2023, 43, .	0.7	2
399	Peats, peatlands, peat gases, and depositional systems. , 2024, , 177-255.		0