David Beilman

List of Publications by Year
in descending order

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39	3,944	331670 21	302126 39
papers	citations	h-index	g-index

43	43	43	4082
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global peatland dynamics since the Last Glacial Maximum. Geophysical Research Letters, 2010, 37, .	4.0	813
2	A database and synthesis of northern peatland soil properties and Holocene carbon and nitrogen accumulation. Holocene, 2014, 24, 1028-1042.	1.7	404
3	Siberian Peatlands a Net Carbon Sink and Global Methane Source Since the Early Holocene. Science, 2004, 303, 353-356.	12.6	383
4	Rapid Early Development of Circumarctic Peatlands and Atmospheric CH4 and CO2 Variations. Science, 2006, 314, 285-288.	12.6	353
5	Climate-related changes in peatland carbon accumulation during the last millennium. Biogeosciences, 2013, 10, 929-944.	3.3	257
6	Climate change and the northern Russian treeline zone. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 2283-2299.	4.0	189
7	Latitudinal limits to the predicted increase of the peatland carbon sink with warming. Nature Climate Change, 2018, 8, 907-913.	18.8	188
8	Expert assessment of future vulnerability of the global peatland carbon sink. Nature Climate Change, 2021, 11, 70-77.	18.8	167
9	A high-resolution GIS-based inventory of the west Siberian peat carbon pool. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	162
10	Peatlands and Their Role in the Global Carbon Cycle. Eos, 2011, 92, 97-98.	0.1	153
11	Carbon accumulation in peatlands of West Siberia over the last 2000 years. Global Biogeochemical Cycles, 2009, 23, .	4.9	113
12	Sensitivity of Northern Peatland Carbon Dynamics to Holocene Climate Change. Geophysical Monograph Series, 0, , 55-69.	0.1	106
13	Pattern of extinction of the woolly mammoth in Beringia. Nature Communications, 2012, 3, 893.	12.8	82
14	Late Quaternary dynamics of Arctic biota from ancient environmental genomics. Nature, 2021, 600, 86-92.	27.8	81
15	Localized Permafrost Peatlands in Western Canada: Definition, Distributions, and Degradation. Arctic, Antarctic, and Alpine Research, 2001, 33, 70-77.	1.1	65
16	Peat carbon stocks in the southern Mackenzie River Basin: uncertainties revealed in a highâ€resolution case study. Global Change Biology, 2008, 14, 1221-1232.	9.5	44
17	Carbon and nitrogen stable isotope ratios in surface sediments from lakes of western Ireland: implications for inferring past lake productivity and nitrogen loading. Journal of Paleolimnology, 2012, 47, 167-184.	1.6	38
18	Plant community and diversity change due to localized permafrost dynamics in bogs of western Canada. Canadian Journal of Botany, 2001, 79, 983-993.	1.1	36

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19	Yeasts in peatlands: A review of richness and roles in peat decomposition. Wetlands, 2007, 27, 761-773.	1.5	34
20	Transformations of landscape and peatâ€forming ecosystems in response to late Holocene climate change in the western Antarctic Peninsula. Geophysical Research Letters, 2016, 43, 7186-7195.	4.0	28
21	Holocene peatland carbon dynamics in the circum-Arctic region: An introduction. Holocene, 2014, 24, 1021-1027.	1.7	25
22	Influence of permafrost on water storage in West Siberian peatlands revealed from a new database of soil properties. Permafrost and Periglacial Processes, 2012, 23, 69-79.	3.4	24
23	Empirical calibrated radiocarbon sampler: a tool for incorporating radiocarbonâ€date and calibration error into <scp>B</scp>ayesian phylogenetic analyses of ancient <scp>DNA</scp>. Molecular Ecology Resources, 2015, 15, 81-86.	4.8	19
24	Palaeolimnological impacts of early prehistoric farming at Lough Dargan, County Sligo, Ireland. Journal of Archaeological Science, 2013, 40, 3212-3221.	2.4	18
25	Peatland Ecosystem Processes in the Maritime Antarctic During Warm Climates. Scientific Reports, 2017, 7, 12344.	3.3	17
26	Seedling drought tolerance and functional traits vary in response to the timing of water availability in a keystone Hawaiian tree species. Plant Ecology, 2019, 220, 321-344.	1.6	17
27	Modern influences on chironomid distribution in western Ireland: potential for palaeoenvironmental reconstruction. Journal of Paleolimnology, 2014, 52, 385-404.	1.6	16
28	Peatland paleohydrology in the southern West Siberian Lowlands: Comparison of multiple testate amoeba transfer functions, sites, and Sphagnum Î´¹³C values. Holocene, 2015, 25, 1425-1436.	1.7	16
29	Twentieth century human and climate impacts on a large mountain lake in southwest China. Hydrobiologia, 2013, 718, 189-206.	2.0	13
30	Peatbank response to late Holocene temperature and hydroclimate change in the western Antarctic Peninsula. Quaternary Science Reviews, 2018, 188, 77-89.	3.0	12
31	A mid to late Holocene chironomid-inferred temperature record from northwest Ireland. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 505, 274-286.	2.3	12
32	Impact of early prehistoric farming on chironomid communities in northwest Ireland. Journal of Paleolimnology, 2017, 57, 227-244.	1.6	11
33	Response of chironomids to Neolithic land-use change in north-west Ireland. Holocene, 2017, 27, 879-889.	1.7	10
34	Carbon and nitrogen in the silt-size fraction and its HCl-hydrolysis residues from coarse-textured Canadian boreal forest soils. Canadian Journal of Soil Science, 2014, 94, 157-168.	1.2	4
35	Dynamic Holocene Vegetation and North Pacific Hydroclimate Recorded in a Mountain Peatland, Molokaâ€˜i, Hawaiâ€˜i. Frontiers in Earth Science, 2019, 7, .	1.8	4
36	On the changing relationship between North Pacific climate variability and synoptic activity over the Hawaiian Islands. International Journal of Climatology, 2021, 41, E1566.	3.5	4

#	Article	IF	Citations
37	Peatlands as a model ecosystem of soil carbon dynamics: Reply to Comment on â€œPeatlands and their role in the global carbon cycleâ€• Eos, 2012, 93, 31-31.	0.1	3
38	An Investigation into ¹⁴C offsets in Modern Mollusk Shell and Flesh from Irish Coasts shows no Significant differences in areas of Carbonate Geology. Radiocarbon, 2019, 61, 1913-1922.	1.8	3
39	Central Pacific hydroclimate over the last 45,000 years: Molecular-isotopic evidence from leaf wax in a HawaiÊ»i peatland. Quaternary Science Reviews, 2021, 253, 106744.	3.0	3