Graeme Swindles

List of Publications by Year
in descending order

129 papers	4,429 citations	94415 37 h-index	138468 58 g-index
135 all docs	135 docs citations	135 times ranked	4074 citing authors

#	Article	IF	Citations
1	Exploring the role of High Arctic Large Igneous Province volcanism on Early Cretaceous Arctic forests. Cretaceous Research, 2022, 129, 105022.	1.4	6
2	Imminent loss of climate space for permafrost peatlands in Europe and Western Siberia. Nature Climate Change, 2022, 12, 373-379.	18.8	31
3	Dating basal peat: The geochronology of peat initiation revisited. Quaternary Geochronology, 2022, 72, 101278.	1.4	7
4	Bucking the trend: Population resilience in a marginal environment. PLoS ONE, 2022, 17, e0266680.	2.5	2
5	The 852/3â€‰CE Mount Churchill eruption: examining the potential climatic and societal impacts and the timing of the Medieval Climate Anomaly in the North Atlantic region. Climate of the Past, 2022, 18, 1475-1508.	3.4	7
6	A regime shift from erosion to carbon accumulation in a temperate northern peatland. Journal of Ecology, 2021, 109, 125-138.	4.0	8
7	Expert assessment of future vulnerability of the global peatland carbon sink. Nature Climate Change, 2021, 11, 70-77.	18.8	167
8	Natural to cultural: The vegetation history of the southern Yorkshire Dales, UK. Review of Palaeobotany and Palynology, 2021, 284, 104328.	1.5	0
9	Divergent responses of permafrost peatlands to recent climate change. Environmental Research Letters, 2021, 16, 034001.	5.2	23
10	Aâ€‰~â€‰40-year paleoenvironmental record from the Swan Oxbow, Yangtze River, China, inferred from testate amoebae and sedimentary pigments. Journal of Paleolimnology, 2021, 66, 29-40.	1.6	4
11	Developing a continental-scale testate amoeba hydrological transfer function for Asian peatlands. Quaternary Science Reviews, 2021, 258, 106868.	3.0	16
12	The testate amoebae of New Zealand: A checklist, identification key and assessment of biogeographic patterns. European Journal of Protistology, 2021, 81, 125789.	1.5	6
13	Ecology of peatland testate amoebae in Svalbard and the development of transfer functions for reconstructing past water-table depth and pH. Ecological Indicators, 2021, 131, 108122.	6.3	6
14	Testate amoebae as non-pollen palynomorphs in pollen slides: usefulness and application in palaeoenvironmental reconstruction. Geological Society Special Publication, 2021, 511, 151-158.	1.3	3
15	Late Glacial and early Holocene development of an oxbow lake in Central Europe (Poland) based on plant macrofossil and geochemical data. Holocene, 2020, 30, 178-189.	1.7	7
16	Drivers of Holocene palsa distribution in North America. Quaternary Science Reviews, 2020, 240, 106337.	3.0	12
17	Is there a climatic control on Icelandic volcanism?. Quaternary Science Advances, 2020, 1, 100004.	1.9	2
18	Quantifying the effect of testate amoeba decomposition on peat-based water-table reconstructions. European Journal of Protistology, 2020, 74, 125693.	1.5	7

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19	Lake-specific controls on the long-term stability of mining-related, legacy arsenic contamination and geochemical baselines in a changing northern environment, Tundra Mine, Northwest Territories, Canada. Applied Geochemistry, 2019, 109, 104403.	3.0	20
20	Validity of managing peatlands with fire. Nature Geoscience, 2019, 12, 884-885.	12.9	9
21	Complexities in interpreting chironomid-based temperature reconstructions over the Holocene from a lake in Western Ireland. Quaternary Science Reviews, 2019, 222, 105908.	3.0	4
22	Pathways for Ecological Change in Canadian High Arctic Wetlands Under Rapid Twentieth Century Warming. Geophysical Research Letters, 2019, 46, 4726-4737.	4.0	25
23	Vikings, peat formation and settlement abandonment: A multi-method chronological approach from Shetland. Quaternary Science Reviews, 2019, 210, 211-225.	3.0	3
24	Widespread global peatland establishment and persistence over the last 130,000 y. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4822-4827.	7.1	82
25	Evidence for ecosystem state shifts in Alaskan continuous permafrost peatlands in response to recent warming. Quaternary Science Reviews, 2019, 207, 134-144.	3.0	14
26	Examining the transfer of soils to clothing materials: Implications for forensic investigations. Forensic Science International, 2019, 305, 110030.	2.2	8
27	Misinterpreting carbon accumulation rates in records from near-surface peat. Scientific Reports, 2019, 9, 17939.	3.3	44
28	Standard chemicalâ€based tephra extraction methods significantly alter the geochemistry of volcanic glass shards. Journal of Quaternary Science, 2019, 34, 697-707.	2.1	5
29	Widespread drying of European peatlands in recent centuries. Nature Geoscience, 2019, 12, 922-928.	12.9	130
30	Ecology of peatland testate amoebae in the Alaskan continuous permafrost zone. Ecological Indicators, 2019, 96, 153-162.	6.3	11
31	Evaluating tephrochronology in the permafrost peatlands of northern Sweden. Quaternary Geochronology, 2019, 50, 16-28.	1.4	7
32	Climate impacts on soil erosion and muddy flooding at 1.5 versus 2Â°C warming. Land Degradation and Development, 2019, 30, 94-108.	3.9	24
33	Global peatland initiation driven by regionally asynchronous warming. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4851-4856.	7.1	82
34	Reconstruction of Holocene hydroclimatic variability in subarctic treeline lakes using lake sediment grain-size end-members. Holocene, 2018, 28, 845-857.	1.7	25
35	Response of plant communities to climate change during the late Holocene: Palaeoecological insights from peatlands in the Alaskan Arctic. Ecological Indicators, 2018, 85, 525-536.	6.3	40
36	Palaeoecology of Sphagnum riparium (Ã…ngstrÃ¶m) in Northern Hemisphere peatlands: Implications for peatland conservation and palaeoecological research. Review of Palaeobotany and Palynology, 2018, 254, 1-7.	1.5	7

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37	Testing the relationship between testate amoeba community composition and environmental variables in a coastal tropical peatland. Ecological Indicators, 2018, 91, 636-644.	6.3	9
38	Ecosystem state shifts during longâ€term development of an Amazonian peatland. Global Change Biology, 2018, 24, 738-757.	9.5	26
39	Organic matter control on the distribution of arsenic in lake sediments impacted by ~ 65 years of gold ore processing in subarctic Canada. Science of the Total Environment, 2018, 622-623, 1668-1679.	8.0	44
40	Evaluating the relationship between climate change and volcanism. Earth-Science Reviews, 2018, 177, 238-247.	9.1	32
41	Climatic control on Icelandic volcanic activity during the mid-Holocene: REPLY. Geology, 2018, 46, e444-e444.	4.4	3
42	Climatic control on Icelandic volcanic activity during the mid-Holocene. Geology, 2018, 46, 47-50.	4.4	31
43	Towards a Holarctic synthesis of peatland testate amoeba ecology: Development of a new continental-scale palaeohydrological transfer function for North America and comparison to European data. Quaternary Science Reviews, 2018, 201, 483-500.	3.0	38
44	Latitudinal limits to the predicted increase of the peatland carbon sink with warming. Nature Climate Change, 2018, 8, 907-913.	18.8	188
45	Sedimentary records of coastal storm surges: Evidence of the 1953 North Sea event. Marine Geology, 2018, 403, 262-270.	2.1	29
46	Late Holocene climatic variability in Subarctic Canada: Insights from a high-resolution lake record from the central Northwest Territories. PLoS ONE, 2018, 13, e0199872.	2.5	14
47	Unraveling past impacts of climate change and land management on historic peatland development using proxyâ€based reconstruction, monitoring data and process modeling. Global Change Biology, 2018, 24, 4131-4142.	9.5	8
48	Response of testate amoebae to a late Holocene ecosystem shift in an Amazonian peatland. European Journal of Protistology, 2018, 64, 13-19.	1.5	11
49	The plight of Amazonia's oldest peatland. Geology Today, 2018, 34, 59-61.	0.9	0
50	A logâ€normal spectral analysis of inorganic grainâ€size distributions from a Canadian boreal lake core: Towards refining depositional process proxy data from high latitude lakes. Sedimentology, 2017, 64, 609-630.	3.1	19
51	High permeability explains the vulnerability of the carbon store in drained tropical peatlands. Geophysical Research Letters, 2017, 44, 1333-1339.	4.0	45
52	New occurrences of the White River Ash (east lobe) in Subarctic Canada and utility for estimating freshwater reservoir effect in lake sediment archives. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 477, 1-9.	2.3	12
53	The presence of Holocene cryptotephra in Wales and southern England. Journal of Quaternary Science, 2017, 32, 493-500.	2.1	16
54	Vegetation Succession, Carbon Accumulation and Hydrological Change in Subarctic Peatlands, Abisko, Northern Sweden. Permafrost and Periglacial Processes, 2017, 28, 589-604.	3.4	27

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55	Estimating the frequency of volcanic ash clouds over northern Europe. Earth and Planetary Science Letters, 2017, 460, 41-49.	4.4	23
56	First discovery of Holocene Alaskan and Icelandic tephra in Polish peatlands. Journal of Quaternary Science, 2017, 32, 457-462.	2.1	13
57	Climate change and the long-term viability of the Worldâ€™s busiest heavy haul ice road. Theoretical and Applied Climatology, 2017, 129, 1089-1108.	2.8	42
58	The impact of ditch blocking on the hydrological functioning of blanket peatlands. Hydrological Processes, 2017, 31, 525-539.	2.6	25
59	The transport of Icelandic volcanic ash: Insights from northern European cryptotephra records. Journal of Geophysical Research: Solid Earth, 2016, 121, 7177-7192.	3.4	19
60	Holocene fire regimes and treeline migration rates in sub-arctic Canada. Global and Planetary Change, 2016, 145, 42-56.	3.5	11
61	Could a potential Anthropocene mass extinction define a new geological period?. Infrastructure Asset Management, 2016, 3, 208-217.	1.6	7
62	The long-term fate of permafrost peatlands under rapid climate warming. Scientific Reports, 2016, 5, 17951.	3.3	87
63	Development of a new pan-European testate amoeba transfer function for reconstructing peatland palaeohydrology. Quaternary Science Reviews, 2016, 152, 132-151.	3.0	106
64	Solar cycles or random processes? Evaluating solar variability in Holocene climate records. Scientific Reports, 2016, 6, 23961.	3.3	21
65	Evaluating the use of dominant microbial consumers (testate amoebae) as indicators of blanket peatland restoration. Ecological Indicators, 2016, 69, 318-330.	6.3	18
66	Palaeoecology of testate amoebae in a tropical peatland. European Journal of Protistology, 2016, 55, 181-189.	1.5	19
67	Raman spectroscopy for the discrimination of tephras from the Hekla eruptions of AD 1510 and 1947. Holocene, 2016, 26, 432-438.	1.7	5
68	Do peatlands or lakes provide the most comprehensive distal tephra records?. Quaternary Science Reviews, 2016, 139, 110-128.	3.0	42
69	Microformâ€scale variations in peatland permeability and their ecohydrological implications. Journal of Ecology, 2016, 104, 531-544.	4.0	28
70	Resilience of peatland ecosystem services over millennial timescales: evidence from a degraded British bog. Journal of Ecology, 2016, 104, 621-636.	4.0	19
71	Significance testing testate amoeba water table reconstructions. Quaternary Science Reviews, 2016, 138, 131-135.	3.0	23
72	First discovery of Holocene cryptotephra in Amazonia. Scientific Reports, 2015, 5, 15579.	3.3	7

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73	Spheroidal carbonaceous particles are a defining stratigraphic marker for the Anthropocene. Scientific Reports, 2015, 5, 10264.	3.3	86
74	Spatial variability of tephra and carbon accumulation in a Holocene peatland. Quaternary Science Reviews, 2015, 124, 248-264.	3.0	22
75	Early Cretaceous vegetation and climate change at high latitude: Palynological evidence from Isachsen Formation, Arctic Canada. Cretaceous Research, 2015, 56, 399-420.	1.4	33
76	Untangling climate signals from autogenic changes in longâ€term peatland development. Geophysical Research Letters, 2015, 42, 10,788.	4.0	40
77	Sediment accumulation rates in subarctic lakes: Insights into age-depth modeling from 22 dated lake records from the Northwest Territories, Canada. Quaternary Geochronology, 2015, 27, 131-144.	1.4	28
78	Influence of oceanâ€“atmospheric oscillations on lake ice phenology in eastern North America. Climate Dynamics, 2015, 45, 2293-2308.	3.8	23
79	Arcella peruviana sp. nov. (Amoebozoa: Arcellinida, Arcellidae), a new species from a tropical peatland in Amazonia. European Journal of Protistology, 2015, 51, 437-449.	1.5	13
80	Evaluating the use of testate amoebae for palaeohydrological reconstruction in permafrost peatlands. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 424, 111-122.	2.3	45
81	Testing peatland water-table depth transfer functions using high-resolution hydrological monitoring data. Quaternary Science Reviews, 2015, 120, 107-117.	3.0	47
82	Big grains go far: understanding the discrepancy between tephrochronology and satellite infrared measurements of volcanic ash. Atmospheric Measurement Techniques, 2015, 8, 2069-2091.	3.1	58
83	Hydroecology of Amazonian lacustrine Arcellinida (testate amoebae): A case study from Lake Quistococha, Peru. European Journal of Protistology, 2015, 51, 460-469.	1.5	14
84	Testing the cause of the Sphagnum austinii (Sull. ex Aust.) decline: Multiproxy evidence from a raised bog in Northern Ireland. Review of Palaeobotany and Palynology, 2015, 213, 17-26.	1.5	19
85	1.8 Billion Years of Detrital Zircon Recycling Calibrates a Refractory Part of Earthâ€™s Sedimentary Cycle. PLoS ONE, 2015, 10, e0144727.	2.5	32
86	Rapid climate change did not cause population collapse at the end of the European Bronze Age. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17045-17049.	7.1	62
87	Autoecological Approaches to Resolve Subjective Taxonomic Divisions within Arcellacea. Protist, 2014, 165, 305-316.	1.5	8
88	Latest Cretaceousâ€“earliest Paleogene vegetation and climate change at the high southern latitudes: palynological evidence from Seymour Island, Antarctic Peninsula. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 408, 26-47.	2.3	90
89	Middle to late Holocene chironomid-inferred July temperatures for the central Northwest Territories, Canada. Journal of Paleolimnology, 2014, 52, 11-26.	1.6	22
90	Ecology of Testate Amoebae in an Amazonian Peatland and Development of a Transfer Function for Palaeohydrological Reconstruction. Microbial Ecology, 2014, 68, 284-298.	2.8	57

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91	Late Holocene ecohydrological and carbon dynamics of a UK raised bog: impact of human activity and climate change. Quaternary Science Reviews, 2014, 84, 65-85.	3.0	49
92	Influence of the Pacific Decadal Oscillation, El NiÃ±o-Southern Oscillation and solar forcing on climate and primary productivity changes in the northeast Pacific. Quaternary International, 2013, 310, 124-139.	1.5	27
93	From dates to demography in later prehistoric Ireland? Experimental approaches to the meta-analysis of large 14C data-sets. Journal of Archaeological Science, 2013, 40, 433-438.	2.4	56
94	Comparing regional and supra-regional transfer functions for palaeohydrological reconstruction from Holocene peatlands. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 369, 395-408.	2.3	36
95	Middle Jurassic to Lower Cretaceous paleoclimate of Sverdrup Basin, Canadian Arctic Archipelago inferred from the palynostratigraphy. Marine and Petroleum Geology, 2013, 44, 240-255.	3.3	39
96	Climate change and decadal to centennial-scale periodicities recorded in a late Holocene NE Pacific marine record: Examining the role of solar forcing. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 386, 669-689.	2.3	34
97	Centennial-scale climate change in Ireland during the Holocene. Earth-Science Reviews, 2013, 126, 300-320.	9.1	79
98	Environmental indifference? A critique of environmentally deterministic theories of peatland archaeological site construction in Ireland. Quaternary Science Reviews, 2013, 61, 17-31.	3.0	20
99	Re-deposited cryptotephra layers in Holocene peats linked to anthropogenic activity. Holocene, 2013, 23, 1493-1501.	1.7	22
100	Volcanic ash clouds affecting Northern Europe: the long view. Geology Today, 2013, 29, 214-217.	0.9	9
101	Climate-related changes in peatland carbon accumulation during the last millennium. Biogeosciences, 2013, 10, 929-944.	3.3	257
102	Ecology of Testate Amoebae in Moorland with a Complex Fire History: Implications for Ecosystem Monitoring and Sustainable Land Management. Protist, 2012, 163, 844-855.	1.5	38
103	Correlating middle Cretaceous palynological records from the Canadian High Arctic based on a section from the Sverdrup Basin and samples from the Eclipse Trough. Palynology, 2012, 36, 277-302.	1.5	21
104	Testing peatland testate amoeba transfer functions: Appropriate methods for clustered training-sets. Holocene, 2012, 22, 819-825.	1.7	52
105	Examining the uncertainties in a â€˜tuned and stackedâ€™ peatland water table reconstruction. Quaternary International, 2012, 268, 58-64.	1.5	14
106	The spatial distribution of Holocene cryptotephras in north-west Europe since 7Âka: implications for understanding ash fall events from Icelandic eruptions. Quaternary Science Reviews, 2012, 41, 57-66.	3.0	73
107	Evaluating periodicities in peat-based climate proxy records. Quaternary Science Reviews, 2012, 41, 94-103.	3.0	31
108	Development of an Arcellacea (testate lobose amoebae) based transfer function for sedimentary Phosphorus in lakes. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 348-349, 32-44.	2.3	48

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109	The Hekla 1947 tephra in the north of Ireland: regional distribution, concentration and geochemistry. Journal of Quaternary Science, 2012, 27, 425-431.	2.1	17
110	Ecohydrological feedbacks confound peatâ€based climate reconstructions. Geophysical Research Letters, 2012, 39, .	4.0	97
111	Development of oxidative sample preparation for the analysis of forensic soil samples with nearâ€IR Raman spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 323-325.	2.5	19
112	Dinoflagellate cyst-based reconstructions of mid to late Holocene winter sea-surface temperature and productivity from an anoxic fjord in the NE Pacific Ocean. Quaternary International, 2011, 235, 13-25.	1.5	12
113	â€˜The methodological basis for fine-resolution, multi-proxy reconstructions of ombrotrophic peat bog surface wetnessâ€™: Comments. Boreas, 2011, 40, 379-381.	2.4	3
114	Diversity, distribution and biogeography of testate amoebae in China: Implications for ecological studies in Asia. European Journal of Protistology, 2011, 47, 1-9.	1.5	29
115	A 7000 yr perspective on volcanic ash clouds affecting northern Europe. Geology, 2011, 39, 887-890.	4.4	66
116	THECAMOEBIANS (TESTATE AMOEBAE) AS PROXIES OF ECOSYSTEM HEALTH AND RECLAMATION SUCCESS IN CONSTRUCTED WETLANDS IN THE OIL SANDS OF ALBERTA, CANADA. Journal of Foraminiferal Research, 2011, 41, 230-247.	0.5	24
117	Controls on the contemporary distribution of lake thecamoebians (testate amoebae) within the Greater Toronto Area and their potential as water quality indicators. Journal of Paleolimnology, 2010, 43, 955-975.	1.6	71
118	Testing the palaeoclimatic significance of the Northern Irish bog oak record. Holocene, 2010, 20, 155-159.	1.7	9
119	Finding Bosworth Battlefield: a multiproxy palaeoenvironmental investigation of lowland sediments from Dadlington, Leicestershire, England. Journal of Archaeological Science, 2010, 37, 1579-1589.	2.4	6
120	A 4500-year proxy climate record from peatlands in the North of Ireland: the identification of widespread summer â€˜drought phasesâ€™?. Quaternary Science Reviews, 2010, 29, 1577-1589.	3.0	92
121	Contemporary distributions of saltmarsh diatoms in the Seymourâ€“Belize Inlet Complex, British Columbia, Canada: Implications for studies of sea-level change. Marine Micropaleontology, 2009, 70, 134-150.	1.2	19
122	Environmental controls on peatland testate amoebae (Protozoa: Rhizopoda) in the North of Ireland: Implications for Holocene palaeoclimate studies. Journal of Paleolimnology, 2009, 42, 123-140.	1.6	81
123	A preliminary investigation into the use of testate amoebae for the discrimination of forensic soil samples. Science and Justice - Journal of the Forensic Science Society, 2009, 49, 182-190.	2.1	18
124	Making hay while the sun shines? Socio-economic change, cereal production and climatic deterioration in Early Medieval Ireland. Journal of Archaeological Science, 2009, 36, 2868-2874.	2.4	32
125	Pentagonia zhangduensis nov. spec. (Lobosea, Arcellinida), a new freshwater species from China. European Journal of Protistology, 2008, 44, 287-290.	1.5	8
126	Determining the Sun's influence on Lateglacial and Holocene climates: a focus on climate response to centennial-scale solar forcing at 2800cal.BP. Quaternary Science Reviews, 2008, 27, 175-184.	3.0	61

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127	A delayed climatic response to solar forcing at 2800 cal. BP: multiproxy evidence from three Irish peatlands. Holocene, 2007, 17, 177-182.	1.7	92
128	Examining the dissolution characteristics of testate amoebae (Protozoa: Rhizopoda) in low pH conditions: Implications for peatland palaeoclimate studies. Palaeogeography, Palaeoclimatology, Palaeoecology, 2007, 252, 486-496.	2.3	66
129	A multiproxy climate record from a raised bog in County Fermanagh, Northern Ireland: a critical examination of the link between bog surface wetness and solar variability. Journal of Quaternary Science, 2007, 22, 667-679.	2.1	57