

Graeme Swindles

List of Publications by Year in descending order

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Version: 2024-02-01

129
papers

4,429
citations

108046

37
h-index

156644

58
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135
all docs

135
docs citations

135
times ranked

4535
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the role of High Arctic Large Igneous Province volcanism on Early Cretaceous Arctic forests. <i>Cretaceous Research</i> , 2022, 129, 105022.	0.6	6
2	Imminent loss of climate space for permafrost peatlands in Europe and Western Siberia. <i>Nature Climate Change</i> , 2022, 12, 373-379.	8.1	31
3	Dating basal peat: The geochronology of peat initiation revisited. <i>Quaternary Geochronology</i> , 2022, 72, 101278.	0.6	7
4	Bucking the trend: Population resilience in a marginal environment. <i>PLoS ONE</i> , 2022, 17, e0266680.	1.1	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. <i>Climate of the Past</i> , 2022, 18, 1475-1508.	1.3	7
6	A regime shift from erosion to carbon accumulation in a temperate northern peatland. <i>Journal of Ecology</i> , 2021, 109, 125-138.	1.9	8
7	Expert assessment of future vulnerability of the global peatland carbon sink. <i>Nature Climate Change</i> , 2021, 11, 70-77.	8.1	167
8	Natural to cultural: The vegetation history of the southern Yorkshire Dales, UK. <i>Review of Palaeobotany and Palynology</i> , 2021, 284, 104328.	0.8	0
9	Divergent responses of permafrost peatlands to recent climate change. <i>Environmental Research Letters</i> , 2021, 16, 034001.	2.2	23
10	Aâ€‰%~â€‰%40-year paleoenvironmental record from the Swan Oxbow, Yangtze River, China, inferred from testate amoebae and sedimentary pigments. <i>Journal of Paleolimnology</i> , 2021, 66, 29-40.	0.8	4
11	Developing a continental-scale testate amoeba hydrological transfer function for Asian peatlands. <i>Quaternary Science Reviews</i> , 2021, 258, 106868.	1.4	16
12	The testate amoebae of New Zealand: A checklist, identification key and assessment of biogeographic patterns. <i>European Journal of Protistology</i> , 2021, 81, 125789.	0.5	6
13	Ecology of peatland testate amoebae in Svalbard and the development of transfer functions for reconstructing past water-table depth and pH. <i>Ecological Indicators</i> , 2021, 131, 108122.	2.6	6
14	Testate amoebae as non-pollen palynomorphs in pollen slides: usefulness and application in palaeoenvironmental reconstruction. <i>Geological Society Special Publication</i> , 2021, 511, 151-158.	0.8	3
15	Late Glacial and early Holocene development of an oxbow lake in Central Europe (Poland) based on plant macrofossil and geochemical data. <i>Holocene</i> , 2020, 30, 178-189.	0.9	7
16	Drivers of Holocene palsa distribution in North America. <i>Quaternary Science Reviews</i> , 2020, 240, 106337.	1.4	12
17	Is there a climatic control on Icelandic volcanism?. <i>Quaternary Science Advances</i> , 2020, 1, 100004.	1.1	2
18	Quantifying the effect of testate amoeba decomposition on peat-based water-table reconstructions. <i>European Journal of Protistology</i> , 2020, 74, 125693.	0.5	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. <i>Applied Geochemistry</i> , 2019, 109, 104403.	1.4	20
20	Validity of managing peatlands with fire. <i>Nature Geoscience</i> , 2019, 12, 884-885.	5.4	9
21	Complexities in interpreting chironomid-based temperature reconstructions over the Holocene from a lake in Western Ireland. <i>Quaternary Science Reviews</i> , 2019, 222, 105908.	1.4	4
22	Pathways for Ecological Change in Canadian High Arctic Wetlands Under Rapid Twentieth Century Warming. <i>Geophysical Research Letters</i> , 2019, 46, 4726-4737.	1.5	25
23	Vikings, peat formation and settlement abandonment: A multi-method chronological approach from Shetland. <i>Quaternary Science Reviews</i> , 2019, 210, 211-225.	1.4	3
24	Widespread global peatland establishment and persistence over the last 130,000 y. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4822-4827.	3.3	82
25	Evidence for ecosystem state shifts in Alaskan continuous permafrost peatlands in response to recent warming. <i>Quaternary Science Reviews</i> , 2019, 207, 134-144.	1.4	14
26	Examining the transfer of soils to clothing materials: Implications for forensic investigations. <i>Forensic Science International</i> , 2019, 305, 110030.	1.3	8
27	Misinterpreting carbon accumulation rates in records from near-surface peat. <i>Scientific Reports</i> , 2019, 9, 17939.	1.6	44
28	Standard chemical-based tephra extraction methods significantly alter the geochemistry of volcanic glass shards. <i>Journal of Quaternary Science</i> , 2019, 34, 697-707.	1.1	5
29	Widespread drying of European peatlands in recent centuries. <i>Nature Geoscience</i> , 2019, 12, 922-928.	5.4	130
30	Ecology of peatland testate amoebae in the Alaskan continuous permafrost zone. <i>Ecological Indicators</i> , 2019, 96, 153-162.	2.6	11
31	Evaluating tephrochronology in the permafrost peatlands of northern Sweden. <i>Quaternary Geochronology</i> , 2019, 50, 16-28.	0.6	7
32	Climate impacts on soil erosion and muddy flooding at 1.5 versus 2°C warming. <i>Land Degradation and Development</i> , 2019, 30, 94-108.	1.8	24
33	Global peatland initiation driven by regionally asynchronous warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4851-4856.	3.3	82
34	Reconstruction of Holocene hydroclimatic variability in subarctic treeline lakes using lake sediment grain-size end-members. <i>Holocene</i> , 2018, 28, 845-857.	0.9	25
35	Response of plant communities to climate change during the late Holocene: Palaeoecological insights from peatlands in the Alaskan Arctic. <i>Ecological Indicators</i> , 2018, 85, 525-536.	2.6	40
36	Palaeoecology of <i>Sphagnum riparium</i> (L.) <i>ngström</i> in Northern Hemisphere peatlands: Implications for peatland conservation and palaeoecological research. <i>Review of Palaeobotany and Palynology</i> , 2018, 254, 1-7.	0.8	7

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37	Testing the relationship between testate amoeba community composition and environmental variables in a coastal tropical peatland. <i>Ecological Indicators</i> , 2018, 91, 636-644.	2.6	9
38	Ecosystem state shifts during long-term development of an Amazonian peatland. <i>Global Change Biology</i> , 2018, 24, 738-757.	4.2	26
39	Organic matter control on the distribution of arsenic in lake sediments impacted by ~ 65 years of gold ore processing in subarctic Canada. <i>Science of the Total Environment</i> , 2018, 622-623, 1668-1679.	3.9	44
40	Evaluating the relationship between climate change and volcanism. <i>Earth-Science Reviews</i> , 2018, 177, 238-247.	4.0	32
41	Climatic control on Icelandic volcanic activity during the mid-Holocene: REPLY. <i>Geology</i> , 2018, 46, e444-e444.	2.0	3
42	Climatic control on Icelandic volcanic activity during the mid-Holocene. <i>Geology</i> , 2018, 46, 47-50.	2.0	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. <i>Quaternary Science Reviews</i> , 2018, 201, 483-500.	1.4	38
44	Latitudinal limits to the predicted increase of the peatland carbon sink with warming. <i>Nature Climate Change</i> , 2018, 8, 907-913.	8.1	188
45	Sedimentary records of coastal storm surges: Evidence of the 1953 North Sea event. <i>Marine Geology</i> , 2018, 403, 262-270.	0.9	29
46	Late Holocene climatic variability in Subarctic Canada: Insights from a high-resolution lake record from the central Northwest Territories. <i>PLoS ONE</i> , 2018, 13, e0199872.	1.1	14
47	Unraveling past impacts of climate change and land management on historic peatland development using proxy-based reconstruction, monitoring data and process modeling. <i>Global Change Biology</i> , 2018, 24, 4131-4142.	4.2	8
48	Response of testate amoebae to a late Holocene ecosystem shift in an Amazonian peatland. <i>European Journal of Protistology</i> , 2018, 64, 13-19.	0.5	11
49	The plight of Amazonia's oldest peatland. <i>Geology Today</i> , 2018, 34, 59-61.	0.3	0
50	A log-normal spectral analysis of inorganic grain size distributions from a Canadian boreal lake core: Towards refining depositional process proxy data from high latitude lakes. <i>Sedimentology</i> , 2017, 64, 609-630.	1.6	19
51	High permeability explains the vulnerability of the carbon store in drained tropical peatlands. <i>Geophysical Research Letters</i> , 2017, 44, 1333-1339.	1.5	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. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 477, 1-9.	1.0	12
53	The presence of Holocene cryptotephra in Wales and southern England. <i>Journal of Quaternary Science</i> , 2017, 32, 493-500.	1.1	16
54	Vegetation Succession, Carbon Accumulation and Hydrological Change in Subarctic Peatlands, Abisko, Northern Sweden. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 589-604.	1.5	27

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55	Estimating the frequency of volcanic ash clouds over northern Europe. <i>Earth and Planetary Science Letters</i> , 2017, 460, 41-49.	1.8	23
56	First discovery of Holocene Alaskan and Icelandic tephra in Polish peatlands. <i>Journal of Quaternary Science</i> , 2017, 32, 457-462.	1.1	13
57	Climate change and the long-term viability of the World's busiest heavy haul ice road. <i>Theoretical and Applied Climatology</i> , 2017, 129, 1089-1108.	1.3	42
58	The impact of ditch blocking on the hydrological functioning of blanket peatlands. <i>Hydrological Processes</i> , 2017, 31, 525-539.	1.1	25
59	The transport of Icelandic volcanic ash: Insights from northern European cryptotephra records. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7177-7192.	1.4	19
60	Holocene fire regimes and treeline migration rates in sub-arctic Canada. <i>Global and Planetary Change</i> , 2016, 145, 42-56.	1.6	11
61	Could a potential Anthropocene mass extinction define a new geological period?. <i>Infrastructure Asset Management</i> , 2016, 3, 208-217.	1.2	7
62	The long-term fate of permafrost peatlands under rapid climate warming. <i>Scientific Reports</i> , 2016, 5, 17951.	1.6	87
63	Development of a new pan-European testate amoeba transfer function for reconstructing peatland palaeohydrology. <i>Quaternary Science Reviews</i> , 2016, 152, 132-151.	1.4	106
64	Solar cycles or random processes? Evaluating solar variability in Holocene climate records. <i>Scientific Reports</i> , 2016, 6, 23961.	1.6	21
65	Evaluating the use of dominant microbial consumers (testate amoebae) as indicators of blanket peatland restoration. <i>Ecological Indicators</i> , 2016, 69, 318-330.	2.6	18
66	Palaeoecology of testate amoebae in a tropical peatland. <i>European Journal of Protistology</i> , 2016, 55, 181-189.	0.5	19
67	Raman spectroscopy for the discrimination of tephtras from the Hekla eruptions of AD 1510 and 1947. <i>Holocene</i> , 2016, 26, 432-438.	0.9	5
68	Do peatlands or lakes provide the most comprehensive distal tephra records?. <i>Quaternary Science Reviews</i> , 2016, 139, 110-128.	1.4	42
69	Microform-scale variations in peatland permeability and their ecohydrological implications. <i>Journal of Ecology</i> , 2016, 104, 531-544.	1.9	28
70	Resilience of peatland ecosystem services over millennial timescales: evidence from a degraded British bog. <i>Journal of Ecology</i> , 2016, 104, 621-636.	1.9	19
71	Significance testing testate amoeba water table reconstructions. <i>Quaternary Science Reviews</i> , 2016, 138, 131-135.	1.4	23
72	First discovery of Holocene cryptotephra in Amazonia. <i>Scientific Reports</i> , 2015, 5, 15579.	1.6	7

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73	Spheroidal carbonaceous particles are a defining stratigraphic marker for the Anthropocene. <i>Scientific Reports</i> , 2015, 5, 10264.	1.6	86
74	Spatial variability of tephra and carbon accumulation in a Holocene peatland. <i>Quaternary Science Reviews</i> , 2015, 124, 248-264.	1.4	22
75	Early Cretaceous vegetation and climate change at high latitude: Palynological evidence from Isachsen Formation, Arctic Canada. <i>Cretaceous Research</i> , 2015, 56, 399-420.	0.6	33
76	Untangling climate signals from autogenic changes in long-term peatland development. <i>Geophysical Research Letters</i> , 2015, 42, 10,788.	1.5	40
77	Sediment accumulation rates in subarctic lakes: Insights into age-depth modeling from 22 dated lake records from the Northwest Territories, Canada. <i>Quaternary Geochronology</i> , 2015, 27, 131-144.	0.6	28
78	Influence of ocean-atmospheric oscillations on lake ice phenology in eastern North America. <i>Climate Dynamics</i> , 2015, 45, 2293-2308.	1.7	23
79	<i>Arcella peruviana</i> sp. nov. (Amoebozoa: Arcellinida, Arcellidae), a new species from a tropical peatland in Amazonia. <i>European Journal of Protistology</i> , 2015, 51, 437-449.	0.5	13
80	Evaluating the use of testate amoebae for palaeohydrological reconstruction in permafrost peatlands. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 424, 111-122.	1.0	45
81	Testing peatland water-table depth transfer functions using high-resolution hydrological monitoring data. <i>Quaternary Science Reviews</i> , 2015, 120, 107-117.	1.4	47
82	Big grains go far: understanding the discrepancy between tephrochronology and satellite infrared measurements of volcanic ash. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2069-2091.	1.2	58
83	Hydroecology of Amazonian lacustrine Arcellinida (testate amoebae): A case study from Lake Quistococha, Peru. <i>European Journal of Protistology</i> , 2015, 51, 460-469.	0.5	14
84	Testing the cause of the <i>Sphagnum austinii</i> (Sull. ex Aust.) decline: Multiproxy evidence from a raised bog in Northern Ireland. <i>Review of Palaeobotany and Palynology</i> , 2015, 213, 17-26.	0.8	19
85	1.8 Billion Years of Detrital Zircon Recycling Calibrates a Refractory Part of Earth's Sedimentary Cycle. <i>PLoS ONE</i> , 2015, 10, e0144727.	1.1	32
86	Rapid climate change did not cause population collapse at the end of the European Bronze Age. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17045-17049.	3.3	62
87	Autoecological Approaches to Resolve Subjective Taxonomic Divisions within Arcellacea. <i>Protist</i> , 2014, 165, 305-316.	0.6	8
88	Latest Cretaceous-earliest Paleogene vegetation and climate change at the high southern latitudes: palynological evidence from Seymour Island, Antarctic Peninsula. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 408, 26-47.	1.0	90
89	Middle to late Holocene chironomid-inferred July temperatures for the central Northwest Territories, Canada. <i>Journal of Paleolimnology</i> , 2014, 52, 11-26.	0.8	22
90	Ecology of Testate Amoebae in an Amazonian Peatland and Development of a Transfer Function for Palaeohydrological Reconstruction. <i>Microbial Ecology</i> , 2014, 68, 284-298.	1.4	57

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91	Late Holocene ecohydrological and carbon dynamics of a UK raised bog: impact of human activity and climate change. <i>Quaternary Science Reviews</i> , 2014, 84, 65-85.	1.4	49
92	Influence of the Pacific Decadal Oscillation, El Niño-Southern Oscillation and solar forcing on climate and primary productivity changes in the northeast Pacific. <i>Quaternary International</i> , 2013, 310, 124-139.	0.7	27
93	From dates to demography in later prehistoric Ireland? Experimental approaches to the meta-analysis of large 14C data-sets. <i>Journal of Archaeological Science</i> , 2013, 40, 433-438.	1.2	56
94	Comparing regional and supra-regional transfer functions for palaeohydrological reconstruction from Holocene peatlands. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 369, 395-408.	1.0	36
95	Middle Jurassic to Lower Cretaceous paleoclimate of Sverdrup Basin, Canadian Arctic Archipelago inferred from the palynostratigraphy. <i>Marine and Petroleum Geology</i> , 2013, 44, 240-255.	1.5	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. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 386, 669-689.	1.0	34
97	Centennial-scale climate change in Ireland during the Holocene. <i>Earth-Science Reviews</i> , 2013, 126, 300-320.	4.0	79
98	Environmental indifference? A critique of environmentally deterministic theories of peatland archaeological site construction in Ireland. <i>Quaternary Science Reviews</i> , 2013, 61, 17-31.	1.4	20
99	Re-deposited cryptotephra layers in Holocene peats linked to anthropogenic activity. <i>Holocene</i> , 2013, 23, 1493-1501.	0.9	22
100	Volcanic ash clouds affecting Northern Europe: the long view. <i>Geology Today</i> , 2013, 29, 214-217.	0.3	9
101	Climate-related changes in peatland carbon accumulation during the last millennium. <i>Biogeosciences</i> , 2013, 10, 929-944.	1.3	257
102	Ecology of Testate Amoebae in Moorland with a Complex Fire History: Implications for Ecosystem Monitoring and Sustainable Land Management. <i>Protist</i> , 2012, 163, 844-855.	0.6	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. <i>Palynology</i> , 2012, 36, 277-302.	0.7	21
104	Testing peatland testate amoeba transfer functions: Appropriate methods for clustered training-sets. <i>Holocene</i> , 2012, 22, 819-825.	0.9	52
105	Examining the uncertainties in a "tuned and stacked" peatland water table reconstruction. <i>Quaternary International</i> , 2012, 268, 58-64.	0.7	14
106	The spatial distribution of Holocene cryptotephra in north-west Europe since 7ka: implications for understanding ash fall events from Icelandic eruptions. <i>Quaternary Science Reviews</i> , 2012, 41, 57-66.	1.4	73
107	Evaluating periodicities in peat-based climate proxy records. <i>Quaternary Science Reviews</i> , 2012, 41, 94-103.	1.4	31
108	Development of an Arcellacea (testate lobose amoebae) based transfer function for sedimentary Phosphorus in lakes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 348-349, 32-44.	1.0	48

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109	The Hekla 1947 tephra in the north of Ireland: regional distribution, concentration and geochemistry. <i>Journal of Quaternary Science</i> , 2012, 27, 425-431.	1.1	17
110	Ecohydrological feedbacks confound peat-based climate reconstructions. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	97
111	Development of oxidative sample preparation for the analysis of forensic soil samples with near-Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 323-325.	1.2	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. <i>Quaternary International</i> , 2011, 235, 13-25.	0.7	12
113	â€˜The methodological basis for fine-resolution, multi-proxy reconstructions of ombrotrophic peat bog surface wetnessâ€™: Comments. <i>Boreas</i> , 2011, 40, 379-381.	1.2	3
114	Diversity, distribution and biogeography of testate amoebae in China: Implications for ecological studies in Asia. <i>European Journal of Protistology</i> , 2011, 47, 1-9.	0.5	29
115	A 7000 yr perspective on volcanic ash clouds affecting northern Europe. <i>Geology</i> , 2011, 39, 887-890.	2.0	66
116	THECAMOEBIANS (TESTATE AMOEBAE) AS PROXIES OF ECOSYSTEM HEALTH AND RECLAMATION SUCCESS IN CONSTRUCTED WETLANDS IN THE OIL SANDS OF ALBERTA, CANADA. <i>Journal of Foraminiferal Research</i> , 2011, 41, 230-247.	0.1	24
117	Controls on the contemporary distribution of lake thecamoebians (testate amoebae) within the Greater Toronto Area and their potential as water quality indicators. <i>Journal of Paleolimnology</i> , 2010, 43, 955-975.	0.8	71
118	Testing the palaeoclimatic significance of the Northern Irish bog oak record. <i>Holocene</i> , 2010, 20, 155-159.	0.9	9
119	Finding Bosworth Battlefield: a multiproxy palaeoenvironmental investigation of lowland sediments from Dadlington, Leicestershire, England. <i>Journal of Archaeological Science</i> , 2010, 37, 1579-1589.	1.2	6
120	A 4500-year proxy climate record from peatlands in the North of Ireland: the identification of widespread summer â€˜drought phasesâ€™?. <i>Quaternary Science Reviews</i> , 2010, 29, 1577-1589.	1.4	92
121	Contemporary distributions of saltmarsh diatoms in the Seymourâ€™s Belize Inlet Complex, British Columbia, Canada: Implications for studies of sea-level change. <i>Marine Micropaleontology</i> , 2009, 70, 134-150.	0.5	19
122	Environmental controls on peatland testate amoebae (Protozoa: Rhizopoda) in the North of Ireland: Implications for Holocene palaeoclimate studies. <i>Journal of Paleolimnology</i> , 2009, 42, 123-140.	0.8	81
123	A preliminary investigation into the use of testate amoebae for the discrimination of forensic soil samples. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2009, 49, 182-190.	1.3	18
124	Making hay while the sun shines? Socio-economic change, cereal production and climatic deterioration in Early Medieval Ireland. <i>Journal of Archaeological Science</i> , 2009, 36, 2868-2874.	1.2	32
125	<i>Pentagonia zhangduensis</i> nov. spec. (Lobosea, Arcellinida), a new freshwater species from China. <i>European Journal of Protistology</i> , 2008, 44, 287-290.	0.5	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. <i>Quaternary Science Reviews</i> , 2008, 27, 175-184.	1.4	61

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127	A delayed climatic response to solar forcing at 2800 cal. BP: multiproxy evidence from three Irish peatlands. <i>Holocene</i> , 2007, 17, 177-182.	0.9	92
128	Examining the dissolution characteristics of testate amoebae (Protozoa: Rhizopoda) in low pH conditions: Implications for peatland palaeoclimate studies. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 252, 486-496.	1.0	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. <i>Journal of Quaternary Science</i> , 2007, 22, 667-679.	1.1	57