

Andy Baker

List of Publications by Year in descending order

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267
papers

19,744
citations

12330

69
h-index

14759

127
g-index

313
all docs

313
docs citations

313
times ranked

12210
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistent Positive North Atlantic Oscillation Mode Dominated the Medieval Climate Anomaly. <i>Science</i> , 2009, 324, 78-80.	12.6	885
2	Fluorescence as a potential monitoring tool for recycled water systems: A review. <i>Water Research</i> , 2009, 43, 863-881.	11.3	800
3	Fluorescence analysis of dissolved organic matter in natural, waste and polluted waters—a review. <i>River Research and Applications</i> , 2007, 23, 631-649.	1.7	788
4	Modification and preservation of environmental signals in speleothems. <i>Earth-Science Reviews</i> , 2006, 75, 105-153.	9.1	669
5	Fluorescence Excitation–Emission Matrix Characterization of Some Sewage-Impacted Rivers. <i>Environmental Science & Technology</i> , 2001, 35, 948-953.	10.0	625
6	Organic Matter Fluorescence in Municipal Water Recycling Schemes: Toward a Unified PARAFAC Model. <i>Environmental Science & Technology</i> , 2011, 45, 2909-2916.	10.0	597
7	Characterisation of algogenic organic matter extracted from cyanobacteria, green algae and diatoms. <i>Water Research</i> , 2008, 42, 3435-3445.	11.3	569
8	Precise dating of Dansgaard–Oeschger climate oscillations in western Europe from stalagmite data. <i>Nature</i> , 2003, 421, 833-837.	27.8	549
9	Fluorescence spectroscopy for wastewater monitoring: A review. <i>Water Research</i> , 2016, 95, 205-219.	11.3	446
10	Can fluorescence spectrometry be used as a surrogate for the Biochemical Oxygen Demand (BOD) test in water quality assessment? An example from South West England. <i>Science of the Total Environment</i> , 2008, 391, 149-158.	8.0	323
11	Spectroscopic characterisation of dissolved organic matter changes in drinking water treatment: From PARAFAC analysis to online monitoring wavelengths. <i>Water Research</i> , 2014, 54, 159-169.	11.3	306
12	Photochemical degradation of dissolved organic matter and dissolved lignin phenols from the Congo River. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	252
13	Fluorescence properties of some farm wastes: implications for water quality monitoring. <i>Water Research</i> , 2002, 36, 189-195.	11.3	235
14	Dead carbon in stalagmites: carbonate bedrock paleodissolution vs. ageing of soil organic matter. Implications for ^{13}C variations in speleothems. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3443-3457.	3.9	234
15	Annual growth banding in a cave stalagmite. <i>Nature</i> , 1993, 364, 518-520.	27.8	231
16	Protein-like fluorescence intensity as a possible tool for determining river water quality. <i>Hydrological Processes</i> , 2004, 18, 2927-2945.	2.6	228
17	Elevated and variable values of ^{13}C in speleothems in a British cave system. <i>Chemical Geology</i> , 1997, 136, 263-270.	3.3	226
18	Testing Theoretically Predicted Stalagmite Growth Rate with Recent Annually Laminated Samples: Implications for Past Stalagmite Deposition. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 393-404.	3.9	223

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19	Characterization of dissolved organic matter from source to sea using fluorescence and absorbance spectroscopy. <i>Science of the Total Environment</i> , 2004, 333, 217-232.	8.0	216
20	Fluorescence of leachates from three contrasting landfills. <i>Water Research</i> , 2004, 38, 2605-2613.	11.3	216
21	Freeze/thaw and pH effects on freshwater dissolved organic matter fluorescence and absorbance properties from a number of UK locations. <i>Water Research</i> , 2007, 41, 2941-2950.	11.3	197
22	Intra- and inter-annual growth rate of modern stalagmites. <i>Chemical Geology</i> , 2001, 176, 191-212.	3.3	189
23	A thousand year speleothem proxy record of North Atlantic climate from Scotland. <i>Climate Dynamics</i> , 2000, 16, 815-820.	3.8	180
24	Annual trace element variations in a Holocene speleothem. <i>Earth and Planetary Science Letters</i> , 1998, 154, 237-246.	4.4	179
25	Annual to sub-annual resolution of multiple trace-element trends in speleothems. <i>Journal of the Geological Society</i> , 2001, 158, 831-841.	2.1	148
26	Detecting river pollution using fluorescence spectrophotometry: case studies from the Ouseburn, NE England. <i>Environmental Pollution</i> , 2003, 124, 57-70.	7.5	138
27	Temporal controls on dissolved organic matter and lignin biogeochemistry in a pristine tropical river, Democratic Republic of Congo. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	137
28	Relating dissolved organic matter fluorescence and functional properties. <i>Chemosphere</i> , 2008, 73, 1765-1772.	8.2	136
29	Changes in global groundwater organic carbon driven by climate change and urbanization. <i>Nature Communications</i> , 2020, 11, 1279.	12.8	128
30	The application of fluorescence spectroscopy to organic matter characterisation in drinking water treatment. <i>Reviews in Environmental Science and Biotechnology</i> , 2011, 10, 277-290.	8.1	126
31	Relating freshwater organic matter fluorescence to organic carbon removal efficiency in drinking water treatment. <i>Science of the Total Environment</i> , 2009, 407, 1765-1774.	8.0	125
32	Applications of stalagmite laminae to paleoclimate reconstructions: Comparison with dendrochronology/climatology. <i>Quaternary Science Reviews</i> , 2006, 25, 2103-2117.	3.0	124
33	Fluorescence Excitation~Emission Matrix Characterization of River Waters Impacted by a Tissue Mill Effluent. <i>Environmental Science & Technology</i> , 2002, 36, 1377-1382.	10.0	123
34	Variations in the discharge and organic matter content of stalagmite drip waters in Lower Cave, Bristol. <i>Hydrological Processes</i> , 1997, 11, 1541-1555.	2.6	122
35	From soil to cave: Transport of trace metals by natural organic matter in karst dripwaters. <i>Chemical Geology</i> , 2012, 304-305, 68-82.	3.3	122
36	A composite annual-resolution stalagmite record of North Atlantic climate over the last three millennia. <i>Scientific Reports</i> , 2015, 5, 10307.	3.3	120

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37	Land use and water quality. <i>Hydrological Processes</i> , 2003, 17, 2499-2501.	2.6	118
38	A three thousand year record of North Atlantic climate. <i>Climate Dynamics</i> , 2002, 19, 449-454.	3.8	114
39	Continuous fluorescence excitation-emission matrix monitoring of river organic matter. <i>Water Research</i> , 2010, 44, 5356-5366.	11.3	112
40	Biomass effects on stalagmite growth and isotope ratios: A 20th century analogue from Wiltshire, England. <i>Earth and Planetary Science Letters</i> , 2005, 240, 486-494.	4.4	110
41	Lignin biogeochemistry: from modern processes to Quaternary archives. <i>Quaternary Science Reviews</i> , 2014, 87, 46-59.	3.0	110
42	An initial investigation into the organic matter biogeochemistry of the Congo River. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 84, 614-627.	3.9	108
43	Annually laminated speleothems: a review. <i>International Journal of Speleology</i> , 2008, 37, 193-206.	1.0	108
44	Northwest European palaeoclimate as indicated by growth frequency variations of secondary calcite deposits. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1993, 100, 291-301.	2.3	105
45	Modelling of dripwater hydrology and hydrogeochemistry in a weakly karstified aquifer (Bath, UK): Implications for climate change studies. <i>Journal of Hydrology</i> , 2006, 321, 213-231.	5.4	100
46	Measurement of protein-like fluorescence in river and waste water using a handheld spectrophotometer. <i>Water Research</i> , 2004, 38, 2934-2938.	11.3	99
47	Characterisation of the fluorescence from freshwater, planktonic bacteria. <i>Water Research</i> , 2006, 40, 2075-2083.	11.3	95
48	Thermal fluorescence quenching properties of dissolved organic matter. <i>Water Research</i> , 2005, 39, 4405-4412.	11.3	94
49	In situ fluorescence measurements of dissolved organic matter: A review. <i>Science of the Total Environment</i> , 2020, 699, 134361.	8.0	93
50	Organic acid fluorescence: applications to speleothem palaeoenvironmental reconstruction. <i>Quaternary Science Reviews</i> , 2000, 19, 1087-1101.	3.0	92
51	The transfer of seasonal isotopic variability between precipitation and drip water at eight caves in the monsoon regions of China. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 183, 250-266.	3.9	92
52	Effects of filtration and pH perturbation on freshwater organic matter fluorescence. <i>Chemosphere</i> , 2007, 67, 2035-2043.	8.2	90
53	Fluorescence wavelength and intensity variations of cave waters. <i>Journal of Hydrology</i> , 1999, 217, 19-34.	5.4	89
54	Simulation of Earth textures by conditional image quilting. <i>Water Resources Research</i> , 2014, 50, 3088-3107.	4.2	89

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55	To what extent can portable fluorescence spectroscopy be used in the real-time assessment of microbial water quality?. <i>Science of the Total Environment</i> , 2015, 532, 14-19.	8.0	89
56	Calculation of Past Dead Carbon Proportion and Variability by the Comparison of AMS ¹⁴ C and Tims U/TH Ages on Two Holocene Stalagmites. <i>Radiocarbon</i> , 1999, 41, 251-270.	1.8	85
57	Non-linearities in drip water hydrology: an example from Stump Cross Caverns, Yorkshire. <i>Journal of Hydrology</i> , 2003, 277, 151-163.	5.4	85
58	Environmental pressures on conserving cave speleothems: effects of changing surface land use and increased cave tourism. <i>Journal of Environmental Management</i> , 1998, 53, 165-175.	7.8	84
59	Portable LED fluorescence instrumentation for the rapid assessment of potable water quality. <i>Science of the Total Environment</i> , 2015, 524-525, 338-346.	8.0	84
60	Discriminatory classification of natural and anthropogenic waters in two U.K. estuaries. <i>Science of the Total Environment</i> , 2007, 373, 305-323.	8.0	82
61	Lipid distribution in a subtropical southern China stalagmite as a record of soil ecosystem response to paleoclimate change. <i>Quaternary Research</i> , 2003, 60, 340-347.	1.7	81
62	Global analysis reveals climatic controls on the oxygen isotope composition of cave drip water. <i>Nature Communications</i> , 2019, 10, 2984.	12.8	81
63	Hydrological uncertainties in the modelling of cave drip-water $\delta^{18}O$ and the implications for stalagmite palaeoclimate reconstructions. <i>Quaternary Science Reviews</i> , 2010, 29, 2201-2214.	3.0	80
64	Determination of changes in wastewater quality through a treatment works using fluorescence spectroscopy. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 3069-3077.	2.2	76
65	Hydrological characterisation of stalagmite dripwaters at Grotte de Villars, Dordogne, by the analysis of inorganic species and luminescent organic matter. <i>Hydrology and Earth System Sciences</i> , 2000, 4, 439-449.	4.9	75
66	Analysis of rainwater dissolved organic carbon compounds using fluorescence spectrophotometry. <i>Atmospheric Environment</i> , 2008, 42, 8036-8045.	4.1	75
67	The estuarine mixing behaviour of peatland derived dissolved organic carbon and its relationship to chromophoric dissolved organic matter in two North Sea estuaries (U.K.). <i>Estuarine, Coastal and Shelf Science</i> , 2007, 74, 131-144.	2.1	74
68	A comparative study of optical properties of NaOH peat extracts: implications for humification studies. <i>Holocene</i> , 2000, 10, 649-658.	1.7	73
69	Fluorescence and Dissolved Organic Matter. , 2014, , 35-74.		73
70	Recent flowstone growth rates: Field measurements in comparison to theoretical predictions. <i>Chemical Geology</i> , 1995, 122, 121-128.	3.3	72
71	Classification and calibration of organic matter fluorescence data with multiway analysis methods and artificial neural networks: an operational tool for improved drinking water treatment. <i>Environmetrics</i> , 2011, 22, 256-270.	1.4	72
72	Paleohydrological Records from Peat Profiles and Speleothems in Sutherland, Northwest Scotland. <i>Quaternary Research</i> , 2001, 55, 223-234.	1.7	71

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73	Fluorescence of Dissolved Organic Matter as a Natural Tracer of Ground Water. <i>Ground Water</i> , 2001, 39, 745-750.	1.3	71
74	Analysis of the climate signal contained within $\delta^{18}O$ and growth rate parameters in two Ethiopian stalagmites. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2975-2988.	3.9	69
75	A new conceptual framework for the transformation of groundwater dissolved organic matter. <i>Nature Communications</i> , 2022, 13, 2153.	12.8	69
76	Fluorescence monitoring at a recycled water treatment plant and associated dual distribution system – Implications for cross-connection detection. <i>Water Research</i> , 2010, 44, 5323-5333.	11.3	67
77	Drip water isotopes in semi-arid karst: Implications for speleothem paleoclimatology. <i>Earth and Planetary Science Letters</i> , 2014, 395, 194-204.	4.4	66
78	Characterisation of dissolved organic matter fluorescence properties by PARAFAC analysis and thermal quenching. <i>Water Research</i> , 2014, 61, 152-161.	11.3	64
79	Molecular organic matter in speleothems and its potential as an environmental proxy. <i>Quaternary Science Reviews</i> , 2008, 27, 905-921.	3.0	63
80	The SISAL database: a global resource to document oxygen and carbon isotope records from speleothems. <i>Earth System Science Data</i> , 2018, 10, 1687-1713.	9.9	62
81	Modern stalagmite $\delta^{18}O$: Instrumental calibration and forward modelling. <i>Global and Planetary Change</i> , 2010, 71, 201-206.	3.5	61
82	Dripwater organic matter and trace element geochemistry in a semi-arid karst environment: Implications for speleothem paleoclimatology. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 135, 217-230.	3.9	61
83	Changes in groundwater dissolved organic matter character in a coastal sand aquifer due to rainfall recharge. <i>Water Research</i> , 2020, 169, 115201.	11.3	60
84	Fluorescence spectroscopy as a tool for determining microbial quality in potable water applications. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 687-693.	2.2	59
85	Spectrophotometric discrimination of river dissolved organic matter. <i>Hydrological Processes</i> , 2002, 16, 3203-3213.	2.6	58
86	High-resolution sulphur isotope analysis of speleothem carbonate by secondary ionisation mass spectrometry. <i>Chemical Geology</i> , 2010, 271, 101-107.	3.3	58
87	An isotopic and modelling study of flow paths and storage in Quaternary calcarenite, SW Australia: implications for speleothem paleoclimate records. <i>Quaternary Science Reviews</i> , 2013, 64, 90-103.	3.0	58
88	A late Middle Pleistocene temperate–periglacial–temperate sequence (Oxygen Isotope Stages 7–5e) near Marsworth, Buckinghamshire, UK. <i>Quaternary Science Reviews</i> , 2001, 20, 1787-1825.	3.0	57
89	Fluorescence characterization of cross flow ultrafiltration derived freshwater colloidal and dissolved organic matter. <i>Chemosphere</i> , 2007, 68, 1304-1311.	8.2	57
90	The freshwater dissolved organic matter fluorescence–total organic carbon relationship. <i>Hydrological Processes</i> , 2007, 21, 2093-2099.	2.6	57

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91	A fluorescence quenching study of the interaction of Suwannee River fulvic acid with iron oxide nanoparticles. <i>Chemosphere</i> , 2009, 76, 1023-1027.	8.2	56
92	Hydroclimate of the Last Glacial Maximum and deglaciation in southern Australia's arid margin interpreted from speleothem records (23â€“15â€“ka). <i>Climate of the Past</i> , 2017, 13, 667-687.	3.4	56
93	Oxygen isotope precipitation anomaly in the North Atlantic region during the 8.2 ka event. <i>Geology</i> , 2009, 37, 1095-1098.	4.4	55
94	A new approach to detecting vegetation and land-use Change using high-resolution lipid biomarker records in stalagmites. <i>Quaternary Research</i> , 2007, 68, 314-324.	1.7	54
95	Isotopic archives of sulphate in speleothems. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2465-2477.	3.9	54
96	Real-time detection of faecally contaminated drinking water with tryptophan-like fluorescence: defining threshold values. <i>Science of the Total Environment</i> , 2018, 622-623, 1250-1257.	8.0	53
97	SISALv2: a comprehensive speleothem isotope database with multiple ageâ€“depth models. <i>Earth System Science Data</i> , 2020, 12, 2579-2606.	9.9	53
98	Variations in stalagmite luminescence laminae structure at Poole's Cavern, England, AD 1910Â±1996: calibration of a palaeoprecipitation proxy. <i>Holocene</i> , 1999, 9, 683-688.	1.7	52
99	Stalagmite luminescence and peat humification records of palaeomoisture for the last 2500 years. <i>Earth and Planetary Science Letters</i> , 1999, 165, 157-162.	4.4	52
100	Impacts of cave air ventilation and in-cave prior calcite precipitation on Golgotha Cave dripwater chemistry, southwest Australia. <i>Quaternary Science Reviews</i> , 2015, 127, 61-72.	3.0	52
101	Spectrophotometric properties of surface water dissolved organic matter in an afforested upland peat catchment. <i>Hydrological Processes</i> , 2008, 22, 2325-2336.	2.6	51
102	Dissolved and total organic and inorganic carbon in some British rivers. <i>Area</i> , 2008, 40, 117-127.	1.6	50
103	Stalagmite lamina doublets: a 1000 year proxy record of severe winters in northwest Scotland?. <i>International Journal of Climatology</i> , 2002, 22, 1339-1345.	3.5	49
104	Fluorescence Indices and Their Interpretation. , 2014, , 303-338.		49
105	Chemometric Analysis of Organic Matter Fluorescence. , 2014, , 339-375.		49
106	Is global warming affecting cave temperatures? Experimental and model data from a paradigmatic case study. <i>Climate Dynamics</i> , 2015, 45, 569-581.	3.8	49
107	Modelling karst vadose zone hydrology and its relevance for paleoclimate reconstruction. <i>Earth-Science Reviews</i> , 2017, 172, 178-192.	9.1	49
108	Speleothem luminescence intensity and spectral characteristics: Signal calibration and a record of palaeovegetation change. <i>Chemical Geology</i> , 1996, 130, 65-76.	3.3	47

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109	High-resolution records of soil humification and paleoclimate change from variations in speleothem luminescence excitation and emission wavelengths. <i>Geology</i> , 1998, 26, 903.	4.4	46
110	A high-resolution multi-proxy stalagmite record from Mechara, Southeastern Ethiopia: palaeohydrological implications for speleothem palaeoclimate reconstruction. <i>Journal of Quaternary Science</i> , 2007, 22, 53-63.	2.1	45
111	High resolution $\delta^{18}O$ and $\delta^{13}C$ records from an annually laminated Scottish stalagmite and relationship with last millennium climate. <i>Global and Planetary Change</i> , 2011, 79, 303-311.	3.5	45
112	Calibration of speleothem $\delta^{18}O$ with instrumental climate records from Turkey. <i>Global and Planetary Change</i> , 2010, 71, 207-217.	3.5	44
113	Characterisation of dissolved organic matter in karst spring waters using intrinsic fluorescence: Relationship with infiltration processes. <i>Science of the Total Environment</i> , 2011, 409, 3448-3462.	8.0	44
114	Fluorescence intensity variations of speleothem-forming groundwaters: Implications for paleoclimate reconstruction. <i>Water Resources Research</i> , 1999, 35, 407-413.	4.2	43
115	Isotope hydrology of dripwaters in a Scottish cave and implications for stalagmite palaeoclimate research. <i>Hydrology and Earth System Sciences</i> , 2008, 12, 1065-1074.	4.9	43
116	Biogeochemical cycling of sulphur in karst and transfer into speleothem archives at Grotta di Ernesto, Italy. <i>Biogeochemistry</i> , 2013, 114, 255-267.	3.5	43
117	Continuous fluorescence assessment of organic matter variability on the Bournbrook River, Birmingham, UK. <i>Hydrological Processes</i> , 2009, 23, 1937-1946.	2.6	42
118	Fluorescence spectroscopy as a tool for determination of organic matter removal efficiency at water treatment works. <i>Drinking Water Engineering and Science</i> , 2010, 3, 63-70.	0.8	42
119	Aquatic Organic Matter Fluorescence. , 2014, , 75-122.		41
120	Paleoclimate implications of mass spectrometric dating of a British flowstone. <i>Geology</i> , 1995, 23, 309.	4.4	40
121	Development and application of functional assays for freshwater dissolved organic matter. <i>Water Research</i> , 2005, 39, 4559-4573.	11.3	40
122	Millennial-length forward models and pseudoproxies of stalagmite $\delta^{18}O$: an example from NW Scotland. <i>Climate of the Past</i> , 2012, 8, 1153-1167.	3.4	40
123	Exploratory analysis of excitation-emission matrix fluorescence spectra with self-organizing maps—a tutorial. <i>Education for Chemical Engineers</i> , 2012, 7, e22-e31.	4.8	40
124	Island groundwater resources, impacts of abstraction and a drying climate: Rottneest Island, Western Australia. <i>Journal of Hydrology</i> , 2016, 542, 704-718.	5.4	40
125	Organic proxies in speleothems — New developments, advantages and limitations. <i>Quaternary Science Reviews</i> , 2016, 149, 1-17.	3.0	40
126	Semi-arid zone caves: Evaporation and hydrological controls on $\delta^{18}O$ drip water composition and implications for speleothem paleoclimate reconstructions. <i>Quaternary Science Reviews</i> , 2016, 131, 285-301.	3.0	40

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127	Reconstructing hemispheric-scale climates from multiple stalagmite records. <i>International Journal of Climatology</i> , 2006, 26, 1417-1424.	3.5	37
128	Exploratory analysis of excitation-emission matrix fluorescence spectra with self-organizing maps as a basis for determination of organic matter removal efficiency at water treatment works. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	37
129	Unsaturated zone hydrology and cave drip discharge water response: Implications for speleothem paleoclimate record variability. <i>Journal of Hydrology</i> , 2015, 529, 662-675.	5.4	37
130	Evaluating model outputs using integrated global speleothem records of climate change since the last glacial. <i>Climate of the Past</i> , 2019, 15, 1557-1579.	3.4	37
131	Characterisation of shallow groundwater dissolved organic matter in aeolian, alluvial and fractured rock aquifers. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 273, 163-176.	3.9	37
132	Roles of forest bioproductivity, transpiration and fire in a nine-year record of cave dripwater chemistry from southwest Australia. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 184, 132-150.	3.9	35
133	Characterisation of colloidal and particulate organic carbon in freshwaters by thermal fluorescence quenching. <i>Water Research</i> , 2007, 41, 3069-3076.	11.3	33
134	Spatially dense drip hydrological monitoring and infiltration behaviour at the Wellington Caves, South East Australia. <i>International Journal of Speleology</i> , 2012, 41, 283-296.	1.0	33
135	Geochemical records of palaeoenvironmental controls on peat forming processes in the Mfabeni peatland, Kwazulu Natal, South Africa since the Late Pleistocene. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 395, 95-106.	2.3	33
136	Antarctic ice sheet discharge driven by atmosphere-ocean feedbacks at the Last Glacial Termination. <i>Scientific Reports</i> , 2017, 7, 39979.	3.3	33
137	The potential role of freshwater luminescence measurements in exploring runoff pathways in upland catchments. <i>Hydrological Processes</i> , 2001, 15, 989-1002.	2.6	32
138	Fluorescence Tracing of Diffuse Landfill Leachate Contamination in Rivers. <i>Water, Air, and Soil Pollution</i> , 2005, 163, 229-244.	2.4	32
139	Reconstruction of cave air temperature based on surface atmosphere temperature and vegetation changes: Implications for speleothem palaeoclimate records. <i>Earth and Planetary Science Letters</i> , 2013, 369-370, 158-168.	4.4	31
140	Controls on cave drip water temperature and implications for speleothem-based paleoclimate reconstructions. <i>Quaternary Science Reviews</i> , 2015, 127, 19-36.	3.0	31
141	Intra-Event Trends in Stable Isotopes: Exploring Midlatitude Precipitation Using a Vertically Pointing Micro Rain Radar. <i>Journal of Hydrometeorology</i> , 2015, 16, 194-213.	1.9	31
142	Thermal quenching of fluorescence of freshwater, planktonic bacteria. <i>Analytica Chimica Acta</i> , 2006, 564, 219-225.	5.4	30
143	Spatial variability of cave-air carbon dioxide and methane concentrations and isotopic compositions in a semi-arid karst environment. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	30
144	Dating stalagmites in mediterranean climates using annual trace element cycles. <i>Scientific Reports</i> , 2017, 7, 621.	3.3	30

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145	A 2000-year lipid biomarker record preserved in a stalagmite from north-west Scotland. <i>Journal of Quaternary Science</i> , 2011, 26, 326-334.	2.1	29
146	New data mining and calibration approaches to the assessment of water treatment efficiency. <i>Advances in Engineering Software</i> , 2012, 44, 126-135.	3.8	29
147	Contrasting distributions of glycerol dialkyl glycerol tetraethers (GDGTs) in speleothems and associated soils. <i>Organic Geochemistry</i> , 2014, 69, 1-10.	1.8	29
148	Evaporative cooling of speleothem drip water. <i>Scientific Reports</i> , 2014, 4, 5162.	3.3	29
149	Mass spectrometric dating of flowstones from Stump Cross Caverns and Lancaster Hole, Yorkshire: palaeoclimate implications. , 1996, 11, 107-114.		28
150	A 9000-year carbon isotopic record of acid-soluble organic matter in a stalagmite from Heshang Cave, central China: Paleoclimate implications. <i>Chemical Geology</i> , 2014, 388, 71-77.	3.3	28
151	ENSO-cave drip water hydrochemical relationship: a 7-year dataset from south-eastern Australia. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4625-4640.	4.9	28
152	The Hekla 3 volcanic eruption recorded in a Scottish speleothem?. <i>Holocene</i> , 1995, 5, 336-342.	1.7	27
153	Characterisation of reverse osmosis permeates from municipal recycled water systems using fluorescence spectroscopy: Implications for integrity monitoring. <i>Journal of Membrane Science</i> , 2012, 421-422, 180-189.	8.2	27
154	Biological Origins and Fate of Fluorescent Dissolved Organic Matter in Aquatic Environments. , 2014, , 278-300.		27
155	Evolution of chemical and isotopic composition of inorganic carbon in a complex semi-arid zone environment: Consequences for groundwater dating using radiocarbon. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 352-367.	3.9	27
156	Environmental monitoring in the Mechara caves, Southeastern Ethiopia: implications for speleothem palaeoclimate studies. <i>International Journal of Speleology</i> , 2008, 37, 207-220.	1.0	27
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