

# Andy Baker

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3138815/publications.pdf>

Version: 2024-02-01

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	Late Holocene climate anomaly concurrent with fire activity and ecosystem shifts in the eastern Australian Highlands. <i>Science of the Total Environment</i> , 2022, 802, 149542.	8.0	14
2	Liquid-phase water isotope separation using graphene-oxide membranes. <i>Carbon</i> , 2022, 186, 344-354.	10.3	15
3	WlCount: Geological lamination detection and counting using an image analysis approach. <i>Computers and Geosciences</i> , 2022, 160, 105037.	4.2	2
4	Sulphur variations in annually layered stalagmites using benchtop micro-XRF. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 189, 106366.	2.9	4
5	Ubiquitous karst hydrological control on speleothem oxygen isotope variability in a global study. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	24
6	Past fires and post-fire impacts reconstructed from a southwest Australian stalagmite. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 325, 258-277.	3.9	7
7	A nation that rebuilds its soils rebuild itself- an engineer's perspective. <i>Soil Security</i> , 2022, , 100060.	2.3	1
8	A new conceptual framework for the transformation of groundwater dissolved organic matter. <i>Nature Communications</i> , 2022, 13, 2153.	12.8	69
9	Characterisation of groundwater dissolved organic matter using LC OCD: Implications for water treatment. <i>Water Research</i> , 2021, 188, 116422.	11.3	19
10	Time lapse electric resistivity tomography to portray infiltration and hydrologic flow paths from surface to cave. <i>Journal of Hydrology</i> , 2021, 593, 125810.	5.4	16
11	Quantifying temporal variability and spatial heterogeneity in rainfall recharge thresholds in a montane karst environment. <i>Journal of Hydrology</i> , 2021, 594, 125965.	5.4	9
12	The Properties of Annually Laminated Stalagmites—A Global Synthesis. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000722.	23.0	23
13	RADIOCARBON PROTOCOLS AND FIRST INTERCOMPARISON RESULTS FROM THE CHRONOS <sup>14</sup> CARBON-CYCLE FACILITY, UNIVERSITY OF NEW SOUTH WALES, SYDNEY, AUSTRALIA. <i>Radiocarbon</i> , 2021, 63, 1003-1023.	1.8	16
14	The evolution of stable silicon isotopes in a coastal carbonate aquifer on Rottnest Island, Western Australia. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3837-3853.	4.9	2
15	In situ fluorescence measurements of dissolved organic matter: A review. <i>Science of the Total Environment</i> , 2020, 699, 134361.	8.0	93
16	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
17	How water isotopes (18O, 2H, 3H) within an island freshwater lens respond to changes in rainfall. <i>Water Research</i> , 2020, 170, 115301.	11.3	12
18	Modern speleothem oxygen isotope hydroclimate records in water-limited SE Australia. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 431-448.	3.9	10

#	ARTICLE	IF	CITATIONS
19	A 35-yr record of groundwater recharge in south-west Australia using stable water isotopes. <i>Science of the Total Environment</i> , 2020, 717, 135105.	8.0	13
20	Rainfall recharge thresholds in a subtropical climate determined using a regional cave drip water monitoring network. <i>Journal of Hydrology</i> , 2020, 587, 125001.	5.4	19
21	A soil moisture monitoring network to characterize karstic recharge and evapotranspiration at five representative sites across the globe. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2020, 9, 11-23.	1.6	17
22	Southern Ocean carbon sink enhanced by sea-ice feedbacks at the Antarctic Cold Reversal. <i>Nature Geoscience</i> , 2020, 13, 489-497.	12.9	20
23	Characterisation of dissolved organic matter to optimise powdered activated carbon and clarification removal efficiency. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2065-2077.	2.4	6
24	Isotopic and chromatographic fingerprinting of the sources of dissolved organic carbon in a shallow coastal aquifer. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 2167-2178.	4.9	10
25	Changes in global groundwater organic carbon driven by climate change and urbanization. <i>Nature Communications</i> , 2020, 11, 1279.	12.8	128
26	Lithium and strontium isotope dynamics in a carbonate island aquifer, Rottneest Island, Western Australia. <i>Science of the Total Environment</i> , 2020, 715, 136906.	8.0	10
27	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
28	SISALv2: a comprehensive speleothem isotope database with multiple age-depth models. <i>Earth System Science Data</i> , 2020, 12, 2579-2606.	9.9	53
29	Global analysis reveals climatic controls on the oxygen isotope composition of cave drip water. <i>Nature Communications</i> , 2019, 10, 2984.	12.8	81
30	Glycerol dialkyl glycerol tetraethers (GDGT) distributions from soil to cave: Refining the speleothem paleothermometer. <i>Organic Geochemistry</i> , 2019, 136, 103890.	1.8	12
31	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
32	Hydrological and geochemical responses of fire in a shallow cave system. <i>Science of the Total Environment</i> , 2019, 662, 180-191.	8.0	12
33	Implications of multi-modal age distributions in Pleistocene cave deposits: A case study of Maludong palaeoanthropological locality, southern China. <i>Journal of Archaeological Science: Reports</i> , 2019, 25, 388-399.	0.5	3
34	Modelling the <sup>14</sup> C bomb-pulse in young speleothems using a soil carbon continuum model. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 342-367.	3.9	18
35	Analysis of the Preserved Amino Acid Bias in Peptide Profiles of Iron Age Teeth from a Tropical Environment Enable Sexing of Individuals Using Amelogenin MRM. <i>Proteomics</i> , 2019, 19, e1800341.	2.2	24
36	Cave drip water solutes in south-eastern Australia: Constraining sources, sinks and processes. <i>Science of the Total Environment</i> , 2019, 651, 2175-2186.	8.0	17

#	ARTICLE	IF	CITATIONS
37	An optimized chronology for a stalagmite using seasonal trace element cycles from Shihua Cave, Beijing, North China. <i>Scientific Reports</i> , 2018, 8, 4551.	3.3	13
38	Sulphate partitioning into calcite: Experimental verification of pH control and application to seasonality in speleothems. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 226, 69-83.	3.9	22
39	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
40	Chemical characterisation and source identification of atmospheric aerosols in the Snowy Mountains, south-eastern Australia. <i>Science of the Total Environment</i> , 2018, 630, 432-443.	8.0	15
41	Paleoclimate change in Ethiopia around the last interglacial derived from annually-resolved stalagmite evidence. <i>Quaternary Science Reviews</i> , 2018, 202, 197-210.	3.0	15
42	Hydrological characterization of cave drip waters in a porous limestone: Golgotha Cave, Western Australia. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 977-988.	4.9	18
43	The impact of fire on the geochemistry of speleothem-forming drip water in a sub-alpine cave. <i>Science of the Total Environment</i> , 2018, 642, 408-420.	8.0	9
44	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
45	River-groundwater connectivity in a karst system, Wellington, New South Wales, Australia. <i>Hydrogeology Journal</i> , 2017, 25, 557-574.	2.1	23
46	Antarctic ice sheet discharge driven by atmosphere-ocean feedbacks at the Last Glacial Termination. <i>Scientific Reports</i> , 2017, 7, 39979.	3.3	33
47	Dating stalagmites in mediterranean climates using annual trace element cycles. <i>Scientific Reports</i> , 2017, 7, 621.	3.3	30
48	Carbon dynamics in a Late Quaternary-age coastal limestone aquifer system undergoing saltwater intrusion. <i>Science of the Total Environment</i> , 2017, 607-608, 771-785.	8.0	18
49	Modelling karst vadose zone hydrology and its relevance for paleoclimate reconstruction. <i>Earth-Science Reviews</i> , 2017, 172, 178-192.	9.1	49
50	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
51	Solar-forced diurnal regulation of cave drip rates via phreatophyte evapotranspiration. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4439-4455.	4.9	9
52	Estimation of deep infiltration in unsaturated limestone environments using cave lidar and drip count data. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 359-373.	4.9	18
53	A post-wildfire response in cave dripwater chemistry. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2745-2758.	4.9	23
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	Dissolved Organic Carbon Mobilisation in a Groundwater System Stressed by Pumping. <i>Scientific Reports</i> , 2016, 5, 18487.	3.3	17
57	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
58	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
59	Cave use and palaeoecology at Maludong (Red Deer Cave), Yunnan, China. <i>Journal of Archaeological Science: Reports</i> , 2016, 8, 277-283.	0.5	4
60	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
61	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
62	What determines the calcium concentration of speleothem-forming drip waters?. <i>Global and Planetary Change</i> , 2016, 143, 152-161.	3.5	18
63	Organic proxies in speleothems – New developments, advantages and limitations. <i>Quaternary Science Reviews</i> , 2016, 149, 1-17.	3.0	40
64	On-line monitoring of organic matter concentrations and character in drinking water treatment systems using fluorescence spectroscopy. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 749-760.	2.4	24
65	Spatial and seasonal variations in the composition of dissolved organic matter in a tropical catchment: the Lower Kinabatangan River, Sabah, Malaysia. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 137-150.	3.5	17
66	Fluorescence spectroscopy for wastewater monitoring: A review. <i>Water Research</i> , 2016, 95, 205-219.	11.3	446
67	An irrigation experiment to compare soil, water and speleothem tetraether membrane lipid distributions. <i>Organic Geochemistry</i> , 2016, 94, 12-20.	1.8	11
68	Water isotope systematics: Improving our palaeoclimate interpretations. <i>Quaternary Science Reviews</i> , 2016, 131, 243-249.	3.0	13
69	Effects of wildfire on long-term soil CO <sub>2</sub> concentration: implications for karst processes. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	15
70	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
71	Assessing Connectivity Between an Overlying Aquifer and a Coal Seam Gas Resource Using Methane Isotopes, Dissolved Organic Carbon and Tritium. <i>Scientific Reports</i> , 2015, 5, 15996.	3.3	26
72	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

#	ARTICLE	IF	CITATIONS
73	Characterisation of dissolved organic matter in the Lower Kinabatangan River, Sabah, Malaysia. <i>Hydrology Research</i> , 2015, 46, 411-428.	2.7	7
74	Application of Portable Fluorescence Spectrophotometry for Integrity Testing of Recycled Water Dual Distribution Systems. <i>Applied Spectroscopy</i> , 2015, 69, 124-129.	2.2	5
75	Organic characterisation of cave drip water by LC-OCD and fluorescence analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 166, 15-28.	3.9	23
76	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
77	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
78	Online fluorescence monitoring of RO fouling and integrity: analysis of two contrasting recycled water schemes. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 689-698.	2.4	23
79	Terrestrial LiDAR Survey and Morphological Analysis to Identify Infiltration Properties in the Tamala Limestone, Western Australia. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 4871-4881.	4.9	18
80	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
81	Integrating multiple scales of hydraulic conductivity measurements in training image-based stochastic models. <i>Water Resources Research</i> , 2015, 51, 465-480.	4.2	14
82	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
83	To what extent do long-duration high-volume dam releases influence river-aquifer interactions? A case study in New South Wales, Australia. <i>Hydrogeology Journal</i> , 2015, 23, 319-334.	2.1	16
84	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
85	Field Measurement of Fluorescent Dissolved Organic Material as a Means of Early Detection of Leachate Plumes. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	10
86	Direct stable isotope porewater equilibration and identification of groundwater processes in heterogeneous sedimentary rock. <i>Science of the Total Environment</i> , 2015, 538, 1010-1023.	8.0	8
87	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
88	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
89	Comparison of river and canal water dissolved organic matter fluorescence within an urbanised catchment. <i>Water and Environment Journal</i> , 2014, 28, 11-22.	2.2	10
90	Simulation of Earth textures by conditional image quilting. <i>Water Resources Research</i> , 2014, 50, 3088-3107.	4.2	89

#	ARTICLE	IF	CITATIONS
91	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
92	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
93	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
94	Contrasting distributions of glycerol dialkyl glycerol tetraethers (GDGTs) in speleothems and associated soils. <i>Organic Geochemistry</i> , 2014, 69, 1-10.	1.8	29
95	A reassessment of the Lower Namoi Catchment aquifer architecture and hydraulic connectivity with reference to climate drivers. <i>Australian Journal of Earth Sciences</i> , 2014, 61, 501-511.	1.0	19
96	Stable isotopic composition of raw and treated water. <i>Water Management</i> , 2014, 167, 414-429.	1.2	2
97	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
98	Lignin biogeochemistry: from modern processes to Quaternary archives. <i>Quaternary Science Reviews</i> , 2014, 87, 46-59.	3.0	110
99	Carbon isotopic characterisation of dissolved organic matter during water treatment. <i>Water Research</i> , 2014, 48, 119-125.	11.3	15
100	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
101	Characterisation of dissolved organic matter fluorescence properties by PARAFAC analysis and thermal quenching. <i>Water Research</i> , 2014, 61, 152-161.	11.3	64
102	Fluorescence and Dissolved Organic Matter. , 2014, , 35-74.		73
103	Aquatic Organic Matter Fluorescence. , 2014, , 75-122.		41
104	Sampling Design for Organic Matter Fluorescence Analysis. , 2014, , 125-146.		9
105	Experimental Design and Quality Assurance. , 2014, , 190-230.		9
106	Physicochemical Effects on Dissolved Organic Matter Fluorescence in Natural Waters. , 2014, , 233-277.		14
107	Biological Origins and Fate of Fluorescent Dissolved Organic Matter in Aquatic Environments. , 2014, , 278-300.		27
108	Fluorescence Indices and Their Interpretation. , 2014, , 303-338.		49

#	ARTICLE	IF	CITATIONS
109	Chemometric Analysis of Organic Matter Fluorescence. , 2014, , 339-375.		49
110	Evaporative cooling of speleothem drip water. Scientific Reports, 2014, 4, 5162.	3.3	29
111	Biogeochemical cycling of sulphur in karst and transfer into speleothem archives at Grotta di Ernesto, Italy. Biogeochemistry, 2013, 114, 255-267.	3.5	43
112	Reconstruction of cave air temperature based on surface atmosphere temperature and vegetation changes: Implications for speleothem palaeoclimate records. Earth and Planetary Science Letters, 2013, 369-370, 158-168.	4.4	31
113	An isotopic and modelling study of flow paths and storage in Quaternary calcarenite, SW Australia: implications for speleothem paleoclimate records. Quaternary Science Reviews, 2013, 64, 90-103.	3.0	58
114	Reducing uncertainty in the climatic interpretations of speleothem $\delta^{18}O$ . Geophysical Research Letters, 2013, 40, 2259-2264.	4.0	14
115	Determination of changes in wastewater quality through a treatment works using fluorescence spectroscopy. Environmental Technology (United Kingdom), 2013, 34, 3069-3077.	2.2	76
116	Hydrological modeling of stalagmite $\delta^{18}O$ response to glacial-interglacial transitions. Geophysical Research Letters, 2013, 40, 3207-3212.	4.0	16
117	Spatially dense drip hydrological monitoring and infiltration behaviour at the Wellington Caves, South East Australia. International Journal of Speleology, 2012, 41, 283-296.	1.0	33
118	Cross-connection detection in Australian dual reticulation systems by monitoring inherent fluorescent organic matter. Environmental Technology Reviews, 2012, 1, 67-80.	4.3	15
119	Chaos and irregularity in karst percolation. Geophysical Research Letters, 2012, 39, .	4.0	14
120	Measuring dissolved organic carbon $\delta^{13}C$ in freshwaters using total organic carbon cavity ring-down spectroscopy (TOC-CRDS). Environmental Chemistry Letters, 2012, 10, 309-315.	16.2	13
121	A method to anchor floating chronologies in annually laminated speleothems with $^{230}Th$ dates. Quaternary Geochronology, 2012, 14, 57-66.	1.4	24
122	Forward modelling of the speleothem oxygen isotope paleoclimate proxy. Quaternary International, 2012, 279-280, 34.	1.5	0
123	From soil to cave: Transport of trace metals by natural organic matter in karst dripwaters. Chemical Geology, 2012, 304-305, 68-82.	3.3	122
124	An initial investigation into the organic matter biogeochemistry of the Congo River. Geochimica Et Cosmochimica Acta, 2012, 84, 614-627.	3.9	108
125	Fluorescence spectroscopy as a tool for determining microbial quality in potable water applications. Environmental Technology (United Kingdom), 2012, 33, 687-693.	2.2	59
126	Quantifying the value of laminated stalagmites for paleoclimate reconstructions. Geophysical Research Letters, 2012, 39, .	4.0	24



#	ARTICLE	IF	CITATIONS
127	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
128	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
129	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
130	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
131	The effect of visitors in a touristic cave and the resulting constraints on natural thermal conditions for palaeoclimate studies (Eagle Cave, central Spain). <i>Acta Carsologica</i> , 2012, 39, .	0.7	4
132	Organic Matter Fluorescence in Municipal Water Recycling Schemes: Toward a Unified PARAFAC Model. <i>Environmental Science &amp; Technology</i> , 2011, 45, 2909-2916.	10.0	597
133	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
134	Assessing the Effect of Sterilization on the Radiocarbon Signature of Freshwater Dissolved Organic Carbon. <i>Radiocarbon</i> , 2011, 53, 659-667.	1.8	3
135	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
136	A 500 yr speleothem-derived reconstruction of late autumn-winter precipitation, northeast Turkey. <i>Quaternary Research</i> , 2011, 75, 399-405.	1.7	23
137	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
138	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
139	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
140	Assessment of Low pH Coagulation Performance Using Fluorescence Spectroscopy. <i>Journal of Environmental Engineering, ASCE</i> , 2011, 137, 596-601.	1.4	10
141	Fluorescent properties of organic carbon in cave dripwaters: Effects of filtration, temperature and pH. <i>Science of the Total Environment</i> , 2010, 408, 5940-5950.	8.0	23
142	Fluorescence monitoring for cross-connection detection in water reuse systems: Australian case studies. <i>Water Science and Technology</i> , 2010, 61, 155-162.	2.5	12
143	Probabilistic analysis of fluorescence signals for monitoring dual reticulation water recycling schemes. <i>Water Science and Technology</i> , 2010, 62, 2059-2065.	2.5	7
144	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

#	ARTICLE	IF	CITATIONS
145	Modern stalagmite $\delta^{18}\text{O}$ : Instrumental calibration and forward modelling. <i>Global and Planetary Change</i> , 2010, 71, 201-206.	3.5	61
146	Calibration of speleothem $\delta^{18}\text{O}$ with instrumental climate records from Turkey. <i>Global and Planetary Change</i> , 2010, 71, 207-217.	3.5	44
147	High-resolution sulphur isotope analysis of speleothem carbonate by secondary ionisation mass spectrometry. <i>Chemical Geology</i> , 2010, 271, 101-107.	3.3	58
148	Hydrological uncertainties in the modelling of cave drip-water $\delta^{18}\text{O}$ and the implications for stalagmite palaeoclimate reconstructions. <i>Quaternary Science Reviews</i> , 2010, 29, 2201-2214.	3.0	80
149	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
150	Continuous fluorescence excitation–emission matrix monitoring of river organic matter. <i>Water Research</i> , 2010, 44, 5356-5366.	11.3	112
151	Investigation into clouds and precipitation over an urban area using micro rain radars, satellite remote sensing and fluorescence spectrophotometry. <i>Atmospheric Research</i> , 2010, 96, 241-255.	4.1	18
152	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
153	Distinguishing stage 1 and 2 reverse osmosis permeates using fluorescence spectroscopy. <i>Water Science and Technology</i> , 2009, 60, 2017-2023.	2.5	10
154	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
155	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
156	Continuous fluorescence assessment of organic matter variability on the Bournbrook River, Birmingham, UK. <i>Hydrological Processes</i> , 2009, 23, 1937-1946.	2.6	42
157	Persistent Positive North Atlantic Oscillation Mode Dominated the Medieval Climate Anomaly. <i>Science</i> , 2009, 324, 78-80.	12.6	885
158	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
159	Fluorescence as a potential monitoring tool for recycled water systems: A review. <i>Water Research</i> , 2009, 43, 863-881.	11.3	800
160	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
161	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
162	Variability in luminescent lamination and initial $^{230}\text{Th}/^{232}\text{Th}$ activity ratios in a late Holocene stalagmite from northern Norway. <i>Quaternary Geochronology</i> , 2009, 4, 181-192.	1.4	19

#	ARTICLE	IF	CITATIONS
163	Changes in freshwater organic matter fluorescence intensity with freezing/thawing and dehydration/rehydration. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	23
164	Reconstructing Climate Dynamics Over the Past Millennium: Synopticâ€Scale Climate Dynamics Over the Last Millennium: A Case Study for the MCAâ€LIA Transition; Kippel, Switzerland, 17â€20 May 2009. <i>Eos</i> , 2009, 90, 283-283.	0.1	2
165	A novel method for imaging internal growth patterns in marine mollusks: A fluorescence case study on the aragonitic shell of the marine bivalve <i>Arctica islandica</i> (Linnaeus). <i>Limnology and Oceanography: Methods</i> , 2009, 7, 673-681.	2.0	23
166	Late Quaternary speleothem pollen in the British Isles. <i>Journal of Quaternary Science</i> , 2008, 23, 193-200.	2.1	24
167	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
168	Dissolved and total organic and inorganic carbon in some British rivers. <i>Area</i> , 2008, 40, 117-127.	1.6	50
169	Analysis of rainwater dissolved organic carbon compounds using fluorescence spectrophotometry. <i>Atmospheric Environment</i> , 2008, 42, 8036-8045.	4.1	75
170	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
171	Hyperspectral imaging of speleothems. <i>Quaternary International</i> , 2008, 187, 5-14.	1.5	4
172	Molecular organic matter in speleothems and its potential as an environmental proxy. <i>Quaternary Science Reviews</i> , 2008, 27, 905-921.	3.0	63
173	Functional variability of dissolved organic matter from the surface water of a productive lake. <i>Water Research</i> , 2008, 42, 81-90.	11.3	26
174	Characterisation of algogenic organic matter extracted from cyanobacteria, green algae and diatoms. <i>Water Research</i> , 2008, 42, 3435-3445.	11.3	569
175	Isotopic archives of sulphate in speleothems. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2465-2477.	3.9	54
176	Relating dissolved organic matter fluorescence and functional properties. <i>Chemosphere</i> , 2008, 73, 1765-1772.	8.2	136
177	Functional properties of DOM in a stream draining blanket peat. <i>Science of the Total Environment</i> , 2008, 407, 566-573.	8.0	17
178	Relating organic matter character to trihalomethanes formation potential: a data mining approach. <i>Water Science and Technology: Water Supply</i> , 2008, 8, 717-723.	2.1	4
179	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
180	Annually laminated speleothems: a review. <i>International Journal of Speleology</i> , 2008, 37, 193-206.	1.0	108

#	ARTICLE	IF	CITATIONS
181	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
182	Fluorescence of road salt additives: potential applications for residual salt monitoring. <i>Measurement Science and Technology</i> , 2007, 18, 239-244.	2.6	4
183	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
184	Characterisation of colloidal and particulate organic carbon in freshwaters by thermal fluorescence quenching. <i>Water Research</i> , 2007, 41, 3069-3076.	11.3	33
185	Effects of filtration and pH perturbation on freshwater organic matter fluorescence. <i>Chemosphere</i> , 2007, 67, 2035-2043.	8.2	90
186	Fluorescence characterization of cross flow ultrafiltration derived freshwater colloidal and dissolved organic matter. <i>Chemosphere</i> , 2007, 68, 1304-1311.	8.2	57
187	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
188	Studies of Cave Sediments: Physical and Chemical Records of Paleoclimate (Revised Edition). <i>Eos</i> , 2007, 88, 430-430.	0.1	1
189	The freshwater dissolved organic matter fluorescence–total organic carbon relationship. <i>Hydrological Processes</i> , 2007, 21, 2093-2099.	2.6	57
190	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
191	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
192	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
193	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
194	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
195	Dynamics of water movement and trends in dissolved carbon in a headwater wetland in a permeable catchment. <i>Wetlands</i> , 2007, 27, 1066-1080.	1.5	14
196	Fractionation of Freshwater Colloids and Particles by SPLITT-Å Analysis by Electron Microscopy and 3D Excitation–Emission Matrix Fluorescence. <i>Analytical Chemistry</i> , 2006, 78, 3609-3615.	6.5	23
197	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
198	Applications of stalagmite laminae to paleoclimate reconstructions: Comparison with dendrochronology/climatology. <i>Quaternary Science Reviews</i> , 2006, 25, 2103-2117.	3.0	124

#	ARTICLE	IF	CITATIONS
199	Characterisation of the fluorescence from freshwater, planktonic bacteria. <i>Water Research</i> , 2006, 40, 2075-2083.	11.3	95
200	Thermal quenching of fluorescence of freshwater, planktonic bacteria. <i>Analytica Chimica Acta</i> , 2006, 564, 219-225.	5.4	30
201	Modification and preservation of environmental signals in speleothems. <i>Earth-Science Reviews</i> , 2006, 75, 105-153.	9.1	669
202	Reconstructing hemispheric-scale climates from multiple stalagmite records. <i>International Journal of Climatology</i> , 2006, 26, 1417-1424.	3.5	37
203	Luminescence variations in fast-growing stalagmites from uppsala, sweden. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2005, 87, 539-548.	1.5	9
204	Utilising seasonal variations in hydrogeochemistry and excitation-emission fluorescence to develop a conceptual groundwater flow model with implications for subsidence hazards: an example from Co. Durham, UK. <i>Environmental Geology</i> , 2005, 48, 320-335.	1.2	20
205	Fluorescence Tracing of Diffuse Landfill Leachate Contamination in Rivers. <i>Water, Air, and Soil Pollution</i> , 2005, 163, 229-244.	2.4	32
206	Catchment-scale fluorescence water quality determination. <i>Water Science and Technology</i> , 2005, 52, 199-207.	2.5	5
207	Passive Treatment of Mn-Rich Mine Water: Using Fluorescence to Observe Microbiological Activity. <i>Geomicrobiology Journal</i> , 2005, 22, 141-149.	2.0	9
208	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
209	Development and application of functional assays for freshwater dissolved organic matter. <i>Water Research</i> , 2005, 39, 4559-4573.	11.3	40
210	Thermal fluorescence quenching properties of dissolved organic matter. <i>Water Research</i> , 2005, 39, 4405-4412.	11.3	94
211	Catchment-scale fluorescence water quality determination. <i>Water Science and Technology</i> , 2005, 52, 199-207.	2.5	0
212	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
213	Protein-like fluorescence intensity as a possible tool for determining river water quality. <i>Hydrological Processes</i> , 2004, 18, 2927-2945.	2.6	228
214	Fluorescence of leachates from three contrasting landfills. <i>Water Research</i> , 2004, 38, 2605-2613.	11.3	216
215	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
216	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

#	ARTICLE	IF	CITATIONS
217	Letter to the Editor: Comment on "œa test of annual resolution in stalagmites using tree rings" Quaternary Research, 2003, 59, 476-478.	1.7	13
218	Land use and water quality. Hydrological Processes, 2003, 17, 2499-2501.	2.6	118
219	Precise dating of Dansgaard"Oeschger climate oscillations in western Europe from stalagmite data. Nature, 2003, 421, 833-837.	27.8	549
220	Lipid distribution in a subtropical southern China stalagmite as a record of soil ecosystem response to paleoclimate change. Quaternary Research, 2003, 60, 340-340.	1.7	4
221	Non-linearities in drip water hydrology: an example from Stump Cross Caverns, Yorkshire. Journal of Hydrology, 2003, 277, 151-163.	5.4	85
222	Detecting river pollution using fluorescence spectrophotometry: case studies from the Ouseburn, NE England. Environmental Pollution, 2003, 124, 57-70.	7.5	138
223	Fluorescence Excitation" Emission Matrix Characterization of River Waters Impacted by a Tissue Mill Effluent. Environmental Science & Technology, 2002, 36, 1377-1382.	10.0	123
224	Principal filter analysis for luminescence excitation-emission data. Geophysical Research Letters, 2002, 29, 9-1-9-4.	4.0	8
225	Fluorescence properties of some farm wastes: implications for water quality monitoring. Water Research, 2002, 36, 189-195.	11.3	235
226	Stalagmite lamina doublets: a 1000 year proxy record of severe winters in northwest Scotland?. International Journal of Climatology, 2002, 22, 1339-1345.	3.5	49
227	Spectrophotometric discrimination of river dissolved organic matter. Hydrological Processes, 2002, 16, 3203-3213.	2.6	58
228	A three thousand year record of North Atlantic climate. Climate Dynamics, 2002, 19, 449-454.	3.8	114
229	Fluorescence Excitation" Emission Matrix Characterization of Some Sewage-Impacted Rivers. Environmental Science & Technology, 2001, 35, 948-953.	10.0	625
230	A late Middle Pleistocene temperate"periglacial"temperate sequence (Oxygen Isotope Stages 7"5e) near Marsworth, Buckinghamshire, UK. Quaternary Science Reviews, 2001, 20, 1787-1825.	3.0	57
231	Dead carbon in stalagmites: carbonate bedrock paleodissolution vs. ageing of soil organic matter. Implications for 13 C variations in speleothems. Geochimica Et Cosmochimica Acta, 2001, 65, 3443-3457.	3.9	234
232	Intra- and inter-annual growth rate of modern stalagmites. Chemical Geology, 2001, 176, 191-212.	3.3	189
233	The potential role of freshwater luminescence measurements in exploring runoff pathways in upland catchments. Hydrological Processes, 2001, 15, 989-1002.	2.6	32
234	Paleohydrological Records from Peat Profiles and Speleothems in Sutherland, Northwest Scotland. Quaternary Research, 2001, 55, 223-234.	1.7	71

#	ARTICLE	IF	CITATIONS
235	Fluorescence of Dissolved Organic Matter as a Natural Tracer of Ground Water. <i>Ground Water</i> , 2001, 39, 745-750.	1.3	71
236	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
237	A thousand year speleothem proxy record of North Atlantic climate from Scotland. <i>Climate Dynamics</i> , 2000, 16, 815-820.	3.8	180
238	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
239	A comparative study of optical properties of NaOH peat extracts: implications for humification studies. <i>Holocene</i> , 2000, 10, 649-658.	1.7	73
240	Organic acid fluorescence: applications to speleothem palaeoenvironmental reconstruction. <i>Quaternary Science Reviews</i> , 2000, 19, 1087-1101.	3.0	92
241	Visualisation of luminescence excitation-emission timeseries: Palaeoclimate implications from a 10,000 year stalagmite record from Ireland. <i>Geophysical Research Letters</i> , 2000, 27, 2145-2148.	4.0	6
242	Calculation of Past Dead Carbon Proportion and Variability by the Comparison of AMS <sup>14</sup> C and Tims U/TH Ages on Two Holocene Stalagmites. <i>Radiocarbon</i> , 1999, 41, 251-270.	1.8	85
243	Variations in stalagmite luminescence laminae structure at Poole's Cavern, England, AD 1910±1996: calibration of a palaeoprecipitation proxy. <i>Holocene</i> , 1999, 9, 683-688.	1.7	52
244	A rapid, non-destructive scanning method for detecting distal tephra layers in peats. <i>Holocene</i> , 1999, 9, 635-638.	1.7	20
245	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
246	Fluorescence wavelength and intensity variations of cave waters. <i>Journal of Hydrology</i> , 1999, 217, 19-34.	5.4	89
247	Fluorescence intensity variations of speleothem-forming groundwaters: Implications for paleoclimate reconstruction. <i>Water Resources Research</i> , 1999, 35, 407-413.	4.2	43
248	Frequency Distributions of <i>Rhizocarpon geographicum</i> s.l., Modeling, and Climate Variation in Trollaskagi, Northern Iceland. <i>Arctic and Alpine Research</i> , 1998, 30, 175.	1.3	13
249	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
250	Comparison of the luminescence properties of waters depositing flowstone and stalagmites at Lower Cave, Bristol. , 1998, 12, 1447-1459.		22
251	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
252	Annual trace element variations in a Holocene speleothem. <i>Earth and Planetary Science Letters</i> , 1998, 154, 237-246.	4.4	179

#	ARTICLE	IF	CITATIONS
253	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
254	Active deposition of calcareous tufa in Wessex, UK, and its implications for the late-Holocene tufa decline. <i>Holocene</i> , 1998, 8, 359-365.	1.7	19
255	Comparaison entre les lamines luminescentes et les lamines visibles annuelles de stalagmites. <i>Comptes Rendus De L'Académie Des Sciences Earth &amp; Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 1997, 325, 193-200.	0.2	4
256	Elevated and variable values of $^{13}\text{C}$ in speleothems in a British cave system. <i>Chemical Geology</i> , 1997, 136, 263-270.	3.3	226
257	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
258	A Cromerian Complex stalagmite from the Mendip Hills, England. , 1997, 12, 533-537.		5
259	Variations in the discharge and organic matter content of stalagmite drip waters in Lower Cave, Bristol. , 1997, 11, 1541.		1
260	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
261	Mass spectrometric dating of flowstones from Stump Cross Caverns and Lancaster Hole, Yorkshire: palaeoclimate implications. , 1996, 11, 107-114.		28
262	Paleoclimate implications of mass spectrometric dating of a British flowstone. <i>Geology</i> , 1995, 23, 309.	4.4	40
263	The Hekla 3 volcanic eruption recorded in a Scottish speleothem?. <i>Holocene</i> , 1995, 5, 336-342.	1.7	27
264	Recent flowstone growth rates: Field measurements in comparison to theoretical predictions. <i>Chemical Geology</i> , 1995, 122, 121-128.	3.3	72
265	Annual growth banding in a cave stalagmite. <i>Nature</i> , 1993, 364, 518-520.	27.8	231
266	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
267	Stalagmite evidence for Early Holocene multidecadal hydroclimate variability in Ethiopia. <i>Quaternary Research</i> , 0, , 1-15.	1.7	0