Ian I Fairchild

List of Publications by Year in descending order

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26567 30010 11,921 140 56 103 citations h-index g-index papers 170 170 170 7118 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	The Marinoan cap carbonate of Svalbard: Syngenetic marine dolomite with <scp>¹⁷O</scp> â€anomalous carbonateâ€associated sulphate. Depositional Record, 2023, 9, 482-507.	0.8	3
2	The Anthropocene: Comparing Its Meaning in Geology (Chronostratigraphy) with Conceptual Approaches Arising in Other Disciplines. Earth's Future, 2021, 9, e2020EF001896.	2.4	61
3	ISODRIP, a model to transfer the l̃18O signal of precipitation to drip water — Implementation of the model for Eagle Cave (central Spain). Science of the Total Environment, 2021, 797, 149188.	3.9	2
4	Hydrological and geochemical responses of fire in a shallow cave system. Science of the Total Environment, 2019, 662, 180-191.	3.9	12
5	A formal Anthropocene is compatible with but distinct from its diachronous anthropogenic counterparts: a response to W.F. Ruddiman's †three flaws in defining a formal Anthropocene'. Progress in Physical Geography, 2019, 43, 319-333.	1.4	28
6	North Iberian temperature and rainfall seasonality over the Younger Dryas and Holocene. Quaternary Science Reviews, 2019, 226, 105998.	1.4	34
7	Constraining the Fluid History of a CO 2 â€H 2 S Reservoir: Insights From Stable Isotopes, REE, and Fluid Inclusion Microthermometry. Geochemistry, Geophysics, Geosystems, 2019, 20, 359-382.	1.0	6
8	Stable isotopes of oxygen and hydrogen in meteoric water during the Cryogenian Period. Precambrian Research, 2019, 320, 253-260.	1.2	1
9	Sulphate partitioning into calcite: Experimental verification of pH control and application to seasonality in speleothems. Geochimica Et Cosmochimica Acta, 2018, 226, 69-83.	1.6	22
10	Indicators of relative completeness of the glacial record of the Port Askaig Formation, Garvellach Islands, Scotland. Precambrian Research, 2018, 319, 65-78.	1.2	15
11	Global Boundary Stratotype Section and Point (GSSP) for the Anthropocene Series: Where and how to look for potential candidates. Earth-Science Reviews, 2018, 178, 379-429.	4.0	153
12	Tonian-Cryogenian boundary sections of Argyll, Scotland. Precambrian Research, 2018, 319, 37-64.	1.2	32
13	Assessing acid rain and climate effects on the temporal variation of dissolved organic matter in the unsaturated zone of a karstic system from southern China. Journal of Hydrology, 2018, 556, 475-487.	2.3	17
14	OBSOLETE: Geochemical records in speleothems. , 2018, , .		0
15	How to date natural archives of the Anthropocene. Geology Today, 2018, 34, 182-187.	0.3	14
16	The impact of fire on the geochemistry of speleothem-forming drip water in a sub-alpine cave. Science of the Total Environment, 2018, 642, 408-420.	3.9	9
17	Geochemistry of speleothems affected by aragonite to calcite recrystallization – Potential inheritance from the precursor mineral. Geochimica Et Cosmochimica Acta, 2017, 200, 310-329.	1.6	26
18	Laminated tufa sediments formed from overflow karst springs: Controls on their deposition and carbon–oxygen isotope records. Sedimentology, 2017, 64, 1274-1288.	1.6	1

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19	The Working Group on the Anthropocene: Summary of evidence and interim recommendations. Anthropocene, 2017, 19, 55-60.	1.6	310
20	Snowball Earth climate dynamics and Cryogenian geology-geobiology. Science Advances, 2017, 3, e1600983.	4.7	424
21	Making the case for a formal Anthropocene Epoch: an analysis of ongoing critiques. Newsletters on Stratigraphy, 2017, 50, 205-226.	0.5	100
22	A post-wildfire response in cave dripwater chemistry. Hydrology and Earth System Sciences, 2016, 20, 2745-2758.	1.9	23
23	ENSO–cave drip water hydrochemical relationship: a 7-year dataset from south-eastern Australia. Hydrology and Earth System Sciences, 2016, 20, 4625-4640.	1.9	28
24	Stratigraphic and Earth System approaches to defining the Anthropocene. Earth's Future, 2016, 4, 324-345.	2.4	162
25	Glacitectonism, subglacial and glacilacustrine processes during a Neoproterozoic panglaciation, northâ€east Svalbard. Sedimentology, 2016, 63, 411-442.	1.6	19
26	Continental carbonate facies of a Neoproterozoic panglaciation, northâ€east Svalbard. Sedimentology, 2016, 63, 443-497.	1.6	37
27	Sedimentological perspectives on climatic, atmospheric and environmental change in the Neoproterozoic Era. Sedimentology, 2016, 63, 253-306.	1.6	75
28	The Late Cryogenian Warm Interval, NE Svalbard: Chemostratigraphy and genesis. Precambrian Research, 2016, 281, 128-154.	1.2	29
29	Neoproterozoic glass-bleeding. Nature Geoscience, 2016, 9, 192-193.	5.4	4
30	Effects of wildfire on long-term soil CO2 concentration: implications for karst processes. Environmental Earth Sciences, 2016, 75, 1.	1.3	15
31	Intra-Event Trends in Stable Isotopes: Exploring Midlatitude Precipitation Using a Vertically Pointing Micro Rain Radar. Journal of Hydrometeorology, 2015, 16, 194-213.	0.7	31
32	When did the Anthropocene begin? A mid-twentieth century boundary level is stratigraphically optimal. Quaternary International, 2015, 383, 196-203.	0.7	546
33	Regional temperature, atmospheric circulation, and sea-ice variability within the Younger Dryas Event constrained using a speleothem from northern Iberia. Earth and Planetary Science Letters, 2015, 419, 101-110.	1.8	75
34	Orbitally forced ice sheet fluctuations during the Marinoan Snowball Earth glaciation. Nature Geoscience, 2015, 8, 704-707.	5.4	59
35	Sulphate concentration in cave dripwater and speleothems: long-term trends and overview of its significance as proxy for environmental processes and climate changes. Quaternary Science Reviews, 2015, 127, 48-60.	1.4	19
36	Impacts of cave air ventilation and in-cave prior calcite precipitation on Golgotha Cave dripwater chemistry, southwest Australia. Quaternary Science Reviews, 2015, 127, 61-72.	1.4	52

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37	Is global warming affecting cave temperatures? Experimental and model data from a paradigmatic case study. Climate Dynamics, 2015, 45, 569-581.	1.7	49
38	Spatial variability and temporal trends in waterâ€use efficiency of European forests. Global Change Biology, 2014, 20, 3700-3712.	4.2	175
39	Synchrotron X-ray distinction of seasonal hydrological and temperature patterns in speleothem carbonate. Environmental Chemistry, 2014, 11, 28.	0.7	24
40	Definition of the Anthropocene: a view from the underworld. Geological Society Special Publication, 2014, 395, 239-254.	0.8	9
41	Preservation of NOM-metal complexes in a modern hyperalkaline stalagmite: Implications for speleothem trace element geochemistry. Geochimica Et Cosmochimica Acta, 2014, 128, 29-43.	1.6	33
42	Biogeochemical cycling of sulphur in karst and transfer into speleothem archives at Grotta di Ernesto, Italy. Biogeochemistry, 2013, 114, 255-267.	1.7	43
43	Methane in underground air in Gibraltar karst. Earth and Planetary Science Letters, 2013, 374, 71-80.	1.8	39
44	Cave aerosols: distribution and contribution to speleothem geochemistry. Quaternary Science Reviews, 2013, 63, 23-41.	1.4	73
45	The chromium isotopic composition of seawater and marine carbonates. Earth and Planetary Science Letters, 2013, 382, 10-20.	1.8	144
46	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.	1.8	31
47	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.	1.4	58
48	Microstructures in metasedimentary rocks from the Neoproterozoic Bonahaven Formation, Scotland: Microconcretions, impact spherules, or microfossils?. Precambrian Research, 2013, 233, 59-72.	1.2	14
49	Magnetic fabrics in the basal ice of a surge-type glacier. Journal of Geophysical Research F: Earth Surface, 2013, 118, 2263-2278.	1.0	18
50	A method to anchor floating chronologies in annually laminated speleothems with U–Th dates. Quaternary Geochronology, 2012, 14, 57-66.	0.6	24
51	From soil to cave: Transport of trace metals by natural organic matter in karst dripwaters. Chemical Geology, 2012, 304-305, 68-82.	1.4	122
52	Millennial-length forward models and pseudoproxies of stalagmite Î ¹⁸ 0: an example from NW Scotland. Climate of the Past, 2012, 8, 1153-1167.	1.3	40
53	The effect of visitors in a touristic cave and the resulting constraints on natural thermal conditions for palaeoclimate studies (Eagle Cave, central Spain). Acta Carsologica, 2012, 39, .	0.3	4
54	Carbon mass-balance modelling and carbon isotope exchange processes in dynamic caves. Geochimica Et Cosmochimica Acta, 2011, 75, 380-400.	1.6	173

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55	Size, speciation and lability of NOM–metal complexes in hyperalkaline cave dripwater. Geochimica Et Cosmochimica Acta, 2011, 75, 7533-7551.	1.6	50
56	High resolution $\hat{l}'180$ and $\hat{l}'13C$ records from an annually laminated Scottish stalagmite and relationship with last millennium climate. Global and Planetary Change, 2011, 79, 303-311.	1.6	45
57	A first evaluation of the spatial gradients in $\hat{l}'180$ recorded by European Holocene speleothems. Global and Planetary Change, 2011, 79, 275-287.	1.6	97
58	A 500 yr speleothem-derived reconstruction of late autumn–winter precipitation, northeast Turkey. Quaternary Research, 2011, 75, 399-405.	1.0	23
59	Chapter 62 The Port Askaig Formation, Dalradian Supergroup, Scotland. Geological Society Memoir, 2011, 36, 635-642.	0.9	3
60	Fluorescent properties of organic carbon in cave dripwaters: Effects of filtration, temperature and pH. Science of the Total Environment, 2010, 408, 5940-5950.	3.9	23
61	New developments in process understanding and modelling in geomorphology: introduction and overview. Earth Surface Processes and Landforms, 2010, 35, 1247-1250.	1.2	0
62	Epikarst hydrology and implications for stalagmite capture of climate changes at Grotta di Ernesto (NE Italy): results from longâ€term monitoring. Hydrological Processes, 2010, 24, 3101-3114.	1,1	63
63	Role of glaciohydraulic supercooling in the formation of stratified facies basal ice: SvÃnafellsjökull and Skaftafellsjökull, southeast Iceland. Boreas, 2010, 39, 24-38.	1.2	30
64	Petrology and geochemistry of annually laminated stalagmites from an Alpine cave (Obir, Austria): seasonal cave physiology. Geological Society Special Publication, 2010, 336, 295-321.	0.8	41
65	Seasonal microclimate control of calcite fabrics, stable isotopes and trace elements in modern speleothem from St Michaels Cave, Gibraltar. Geological Society Special Publication, 2010, 336, 323-344.	0.8	66
66	Calibration of speleothem $\hat{l}'180$ with instrumental climate records from Turkey. Global and Planetary Change, 2010, 71, 207-217.	1.6	44
67	High-resolution sulphur isotope analysis of speleothem carbonate by secondary ionisation mass spectrometry. Chemical Geology, 2010, 271, 101-107.	1.4	58
68	Investigation into clouds and precipitation over an urban area using micro rain radars, satellite remote sensing and fluorescence spectrophotometry. Atmospheric Research, 2010, 96, 241-255.	1.8	18
69	Stretching the Envelope of Past Surface Environments: Neoproterozoic Glacial Lakes from Svalbard. Science, 2009, 323, 119-122.	6.0	90
70	Oxygen isotope precipitation anomaly in the North Atlantic region during the 8.2 ka event. Geology, 2009, 37, 1095-1098.	2.0	55
71	The sulphur isotope and hydrochemical characteristics of Skeiðarársandur, Iceland: identification of solute sources and implications for weathering processes. Hydrological Processes, 2009, 23, 2212-2224.	1.1	19
72	Trace elements in speleothems as recorders of environmental change. Quaternary Science Reviews, 2009, 28, 449-468.	1.4	422

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73	Sulfur Fixation in Wood Mapped by Synchrotron X-ray Studies: Implications for Environmental Archives. Environmental Science &	4.6	51
74	Chronology building using objective identification of annual signals in trace element profiles of stalagmites. Quaternary Geochronology, 2009, 4, 11-21.	0.6	75
75	Analysis of rainwater dissolved organic carbon compounds using fluorescence spectrophotometry. Atmospheric Environment, 2008, 42, 8036-8045.	1.9	75
76	Isotopic archives of sulphate in speleothems. Geochimica Et Cosmochimica Acta, 2008, 72, 2465-2477.	1.6	54
77	Hydrogeological implications of glacial landscape evolution at Skeiðarársandur, SE Iceland. Geomorphology, 2008, 97, 218-236.	1.1	28
78	Isotope hydrology of dripwaters in a Scottish cave and implications for stalagmite palaeoclimate research. Hydrology and Earth System Sciences, 2008, 12, 1065-1074.	1.9	43
79	Annually laminated speleothems: a review. International Journal of Speleology, 2008, 37, 193-206.	0.4	108
80	Neoproterozoic glaciation in the Earth System. Journal of the Geological Society, 2007, 164, 895-921.	0.9	196
81	Trace element distribution in annual stalagmite laminae mapped by micrometer-resolution X-ray fluorescence: Implications for incorporation of environmentally significant species. Geochimica Et Cosmochimica Acta, 2007, 71, 1494-1512.	1.6	205
82	Analysis of the climate signal contained within $\hat{\Gamma}'18O$ and growth rate parameters in two Ethiopian stalagmites. Geochimica Et Cosmochimica Acta, 2007, 71, 2975-2988.	1.6	69
83	Speleothems as indicators of wet and dry periods. International Journal of Speleology, 2007, 36, 69-74.	0.4	60
84	Spatial variability in cave drip water hydrochemistry: Implications for stalagmite paleoclimate records. Chemical Geology, 2006, 235, 390-404.	1.4	124
85	Modelling of dripwater hydrology and hydrogeochemistry in a weakly karstified aquifer (Bath, UK): Implications for climate change studies. Journal of Hydrology, 2006, 321, 213-231.	2.3	100
86	Modification and preservation of environmental signals in speleothems. Earth-Science Reviews, 2006, 75, 105-153.	4.0	669
87	Reconstructing hemispheric-scale climates from multiple stalagmite records. International Journal of Climatology, 2006, 26, 1417-1424.	1.5	37
88	Annual trace element cycles in calcite-aragonite speleothems: evidence of drought in the western Mediterranean 1200-1100 yr BP. Journal of Quaternary Science, 2005, 20, 423-433.	1.1	110
89	An experimental study of incongruent dissolution of CaCO ₃ under analogue glacial conditions. Journal of Glaciology, 2005, 51, 383-390.	1.1	33
90	Relative contributions of silicate and carbonate rocks to riverine Sr fluxes in the headwaters of the Ganges. Geochimica Et Cosmochimica Acta, 2005, 69, 2221-2240.	1.6	142

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91	Cave air control on dripwater geochemistry, Obir Caves (Austria): Implications for speleothem deposition in dynamically ventilated caves. Geochimica Et Cosmochimica Acta, 2005, 69, 2451-2468.	1.6	345
92	Variations in atmospheric sulphate recorded in stalagmites by synchrotron micro-XRF and XANES analyses. Earth and Planetary Science Letters, 2005, 235, 729-740.	1.8	108
93	Soil and karst aquifer hydrological controls on the geochemical evolution of speleothem-forming drip waters, Crag Cave, southwest Ireland. Journal of Hydrology, 2003, 273, 51-68.	2.3	232
94	Fluxes of Sr into the headwaters of the Ganges. Geochimica Et Cosmochimica Acta, 2003, 67, 2567-2584.	1.6	91
95	Structure of the 8200-Year Cold Event Revealed by a Speleothem Trace Element Record. Science, 2002, 296, 2203-2206.	6.0	179
96	Aragonite-Calcite Relationships in Speleothems (Grotte De Clamouse, France): Environment, Fabrics, and Carbonate Geochemistry. Journal of Sedimentary Research, 2002, 72, 687-699.	0.8	182
97	Partitioning of Sr2+ and Mg2+ into calcite under karst-analogue experimental conditions. Geochimica Et Cosmochimica Acta, 2001, 65, 47-62.	1.6	265
98	Seasonal variations in Sr, Mg and P in modern speleothems (Grotta di Ernesto, Italy). Chemical Geology, 2001, 175, 429-448.	1.4	186
99	Controls on the 87Sr/86Sr Ratio of Carbonates in the Garhwal Himalaya, Headwaters of the Ganges. Journal of Geology, 2001, 109, 737-753.	0.7	77
100	Annual to sub-annual resolution of multiple trace-element trends in speleothems. Journal of the Geological Society, 2001, 158, 831-841.	0.9	148
101	Hydrological characterisation of stalagmite dripwaters at Grotte de Villars, Dordogne, by the analysis of inorganic species and luminescent organic matter. Hydrology and Earth System Sciences, 2000, 4, 439-449.	1.9	75
102	Mg, Sr and Sr isotope geochemistry of a Belgian Holocene speleothem: implications for paleoclimate reconstructions. Chemical Geology, 2000, 169, 131-144.	1.4	103
103	Controls on trace element (Sr–Mg) compositions of carbonate cave waters: implications for speleothem climatic records. Chemical Geology, 2000, 166, 255-269.	1.4	470
104	Calcite Fabrics, Growth Mechanisms, and Environments of Formation in Speleothems from the Italian Alps and Southwestern Ireland. Journal of Sedimentary Research, 2000, 70, 1183-1196.	0.8	304
105	Celebration and consideration of citations. Journal of the Geological Society, 2000, 157, 1089-1091.	0.9	1
106	Solute generation and transfer from a chemically reactive alpine glacial-proglacial system. Earth Surface Processes and Landforms, 1999, 24, 1189-1211.	1.2	60
107	Holocene climate variability in Europe: Evidence from $\hat{1}$ 180, textural and extension-rate variations in three speleothems. Quaternary Science Reviews, 1999, 18, 1021-1038.	1.4	200
108	Interactions of calcareous suspended sediment with glacial meltwater: a field test of dissolution behaviour. Chemical Geology, 1999, 155, 243-263.	1.4	44

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109	Widespread bacterial populations at glacier beds and their relationship to rock weathering and carbon cycling. Geology, 1999, 27, 107.	2.0	236
110	Segregation of solutes and gases in experimental freezing of dilute solutions: implications for natural glacial systems. Geochimica Et Cosmochimica Acta, 1998, 62, 3637-3655.	1.6	139
111	The significance of Himalayan rivers for silicate weathering rates: evidence from the Bhote Kosi tributary. Chemical Geology, 1998, 144, 205-220.	1.4	92
112	Possible seismic origin of molar tooth structures in Neoproterozoic carbonate ramp deposits, north China. Sedimentology, 1997, 44, 611-636.	1.6	53
113	Incoming editorial. Journal of the Geological Society, 1996, 153, 1-1.	0.9	8
114	Vendian basin evolution in East Greenland and NE Svalbard. Precambrian Research, 1995, 73, 217-233.	1.2	77
115	Hydrochemistry of carbonate terrains in alpine glacial settings. Earth Surface Processes and Landforms, 1994, 19, 33-54.	1.2	77
116	Diagenesis of an Upper Triassic reef complex, Wilde Kirche, Northern Calcareous Alps, Austria. Sedimentology, 1994, 41, 935-950.	1.6	26
117	Calcified Microbes in Neoproterozoic Carbonates: Implications for Our Understanding of the Proterozoic/Cambrian Transition. Palaios, 1993, 8, 512.	0.6	108
118	The Lower Cambrian Wrekin Quartzite and the age of its unconformity on the Ercall Granophyre. Geological Magazine, 1993, 130, 257-264.	0.9	15
119	Carbonate diagenesis in ice. Geology, 1993, 21, 901.	2.0	42
120	Coastal lithofacies and biofacies associated with syndepositional dolomitization and silicification (Draken Formation, Upper Riphean, Svalbard). Precambrian Research, 1991, 53, 165-197.	1.2	37
121	Origins of carbonate in Neoproterozoic stromatolites and the identification of modern analogues. Precambrian Research, 1991, 53, 281-299.	1.2	54
122	Kuwaiti dolocrete: petrology, geochemistry and groundwater origin. Sedimentary Geology, 1991, 73, 59-75.	1.0	51
123	Carbonate minerals in glacial sediments: geochemical clues to palaeoenvironment. Geological Society Special Publication, 1990, 53, 201-216.	0.8	18
124	Late Proterozoic glacial carbonates in northeast Spitsbergen: new insights into the carbonate–tillite association. Geological Magazine, 1989, 126, 469-490.	0.9	58
125	A tempestite-stromatolite-evaporite association (late Vendian, East Greenland): a shoreface-lagoon model. Precambrian Research, 1989, 43, 101-127.	1.2	41
126	The Precambrian-Cambrian boundary. Trends in Ecology and Evolution, 1989, 4, 251-252.	4.2	0

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127	Carbonate shelf and slope fades evolution prior to Vendian glaciation, central East Greenland. , 1989, , 263-273.		11
128	Dolomitic stromatolite-bearing units with storm deposits from the Vendian of East Greenland and Scotland: a case of facies equivalence., 1989,, 275-283.		7
129	Mixing zone dolomitization of Devonian carbonates, Guangxi, South China. Geological Society Special Publication, 1987, 36, 157-170.	0.8	7
130	Petrological and isotopic implications of some contrasting Late Precambrian carbonates, NE Spitsbergen. Sedimentology, 1987, 34, 973-989.	1.6	92
131	Comment and Reply on "Glaciomarine model for upper Precambrian diamictites of the Port Askaig Formation, Scotland― Geology, 1985, 13, 89.	2.0	8
132	Petrography and carbonate chemistry of some Dalradian dolomitic metasediments: preservation of diagenetic textures. Journal of the Geological Society, 1985, 142, 167-185.	0.9	23
133	The Vendian succession of northeastern Spitsbergen: Petrogenesis of a dolomite-tillite association. Precambrian Research, 1984, 26, 111-167.	1.2	105
134	Chemical controls of cathodoluminescence of natural dolomites and calcites: new data and review. Sedimentology, 1983, 30, 579-583.	1.6	90
135	Effects of glacial transport and neomorphism on Precambrian dolomite crystal sizes. Nature, 1983, 304, 714-716.	13.7	29
136	Stages in a Precambrian dolomitization, Scotland: cementing versus replacement textures. Sedimentology, 1980, 27, 631-650.	1.6	23
137	Sedimentation and Origin of a Late Precambrian 'Dolomite' from Scotland. Journal of Sedimentary Research, 1980, Vol. 50, .	0.8	14
138	The structure of NE Islay. Scottish Journal of Geology, 1980, 16, 189-197.	0.1	13
139	Phengite spherules from the Dalradian Bonahaven Formation, Islay, Scotland: glauconitized microfossils?. Geological Magazine, 1977, 114, 355-364.	0.9	12
140	Trace element variations in stalagmites. , 0, , 259-287.		2