Gideon M Henderson

List of Publications by Year
in descending order

130	10,006	23567	37204
papers	citations	58 h-index	96 g-index

132	132	132	8920
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantification of Holocene Asian monsoon rainfall from spatially separated cave records. Earth and Planetary Science Letters, 2008, 266, 221-232.	4.4	626
2	Ice-sheet collapse and sea-level rise at the BÃ¸lling warming 14,600â€‰years ago. Nature, 2012, 483, 559-564.	27.8	475
3	Lithium-isotope fractionation during continental weathering processes. Earth and Planetary Science Letters, 2003, 214, 327-339.	4.4	350
4	The sequence of events surrounding Termination II and their implications for the cause of glacial-interglacial CO2changes. Paleoceanography, 1998, 13, 352-364.	3.0	345
5	Seasonal trace-element and stable-isotope variations in a Chinese speleothem: The potential for high-resolution paleomonsoon reconstruction. Earth and Planetary Science Letters, 2006, 244, 394-407.	4.4	278
6	The GEOTRACES Intermediate Data Product 2017. Chemical Geology, 2018, 493, 210-223.	3.3	257
7	Evidence from Uâ€“Th dating against Northern Hemisphere forcing of the penultimate deglaciation. Nature, 2000, 404, 61-66.	27.8	250
8	Temperature dependence of Î´7 Li, Î´44 Ca and Li/Ca during growth of calcium carbonate. Earth and Planetary Science Letters, 2004, 222, 615-624.	4.4	245
9	U and Th concentrations and isotope ratios in modern carbonates and waters from the Bahamas. Geochimica Et Cosmochimica Acta, 2004, 68, 1777-1789.	3.9	168
10	Global distribution of the flux to ocean sediments constrained by GCM modelling. Deep-Sea Research Part I: Oceanographic Research Papers, 1999, 46, 1861-1893.	1.4	165
11	New oceanic proxies for paleoclimate. Earth and Planetary Science Letters, 2002, 203, 1-13.	4.4	163
12	Significant increases in global weathering during Oceanic Anoxic Events 1a and 2 indicated by calcium isotopes. Earth and Planetary Science Letters, 2011, 309, 77-88.	4.4	163
13	Effect of mineralogy, salinity, and temperature on Li/Ca and Li isotope composition of calcium carbonate. Chemical Geology, 2004, 212, 5-15.	3.3	161
14	Tropical seagrass meadows modify seawater carbon chemistry: implications for coral reefs impacted by ocean acidification. Environmental Research Letters, 2012, 7, 024026.	5.2	159
15	Systematic change of foraminiferal Mg/Ca ratios across a strong salinity gradient. Earth and Planetary Science Letters, 2008, 265, 153-166.	4.4	149
16	Links between the East Asian monsoon and North Atlantic climate during the 8,200 year event. Nature Geoscience, 2013, 6, 117-120.	12.9	147
17	Late Pleistocene Human Skull from Hofmeyr, South Africa, and Modern Human Origins. Science, 2007, 315, 226-229.	12.6	136
18	Uâ€“Th stratigraphy of a cold seep carbonate crust. Chemical Geology, 2009, 260, 47-56.	3.3	135

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19	Seawater (234 U/ 238 U) during the last 800 thousand years. Earth and Planetary Science Letters, 2002, 199, 97-110.	4.4	131
20	GEOTRACES intercalibration of neodymium isotopes and rare earth element concentrations in seawater and suspended particles. Part 1: reproducibility of results for the international intercomparison. Limnology and Oceanography: Methods, 2012, 10, 234-251.	2.0	119
21	Penultimate Deglacial Sea-Level Timing from Uranium/Thorium Dating of Tahitian Corals. Science, 2009, 324, 1186-1189.	12.6	113
22	Climatic Control of Riverine and Seawater Uranium-Isotope Ratios. Science, 2004, 305, 851-854.	12.6	111
23	Growth rates of the deep-sea scleractinia Desmophyllum cristagalli and Enallopsammia rostrata. Earth and Planetary Science Letters, 2004, 227, 481-490.	4.4	110
24	Speleothems Reveal 500,000-Year History of Siberian Permafrost. Science, 2013, 340, 183-186.	12.6	103
25	The use of foraminifera as a record of the past neodymium isotope composition of seawater. Paleoceanography, 2004, 19, n/a-n/a.	3.0	102
26	Nonspecific uptake and homeostasis drive the oceanic cadmium cycle. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2500-2505.	7.1	99
27	The dissolution of olivine added to soil: Implications for enhanced weathering. Applied Geochemistry, 2015, 61, 109-118.	3.0	99
28	Isotopic fractionation of cadmium into calcite. Earth and Planetary Science Letters, 2011, 312, 243-253.	4.4	98
29	Rare earth elements (REEs) in the tropical South Atlantic and quantitative deconvolution of their non-conservative behavior. Geochimica Et Cosmochimica Acta, 2016, 177, 217-237.	3.9	98
30	Evolution of seawater 87Sr86Sr over the last 400 ka: the absence of glacial/interglacial cycles. Earth and Planetary Science Letters, 1994, 128, 643-651.	4.4	95
31	Barium stable isotopes in the global ocean: Tracer of Ba inputs and utilization. Earth and Planetary Science Letters, 2017, 473, 269-278.	4.4	95
32	234U/238U ratios and230Th ages for Hateruma Atoll corals: implications for coral diagenesis and seawater234U/238U ratios. Earth and Planetary Science Letters, 1993, 115, 65-73.	4.4	93
33	Advection and removal of 210Pb and stable Pb isotopes in the oceans: a general circulation model study. Geochimica Et Cosmochimica Acta, 2002, 66, 257-272.	3.9	91
34	The Li isotope response to mountain uplift. Geology, 2015, 43, 67-70.	4.4	91
35	Uâ€“Th dating of marine isotope stage 7 in Bahamas slope sediments. Earth and Planetary Science Letters, 2002, 196, 175-187.	4.4	89
36	Establishing the potential of Ca isotopes as proxy for consumption of dairy products. Applied Geochemistry, 2006, 21, 1656-1667.	3.0	89

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37	Controls on trace-element partitioning in cave-analogue calcite. Geochimica Et Cosmochimica Acta, 2013, 120, 612-627.	3.9	89
38	Multi-disciplinary investigation of fluid seepage on an unstable margin: The case of the Central Nile deep sea fan. Marine Geology, 2009, 261, 92-104.	2.1	88
39	Constant Holocene Southern-Ocean 14C reservoir ages and ice-shelf flow rates. Earth and Planetary Science Letters, 2010, 296, 115-123.	4.4	87
40	CLIMATE: Caving In to New Chronologies. Science, 2006, 313, 620-622.	12.6	86
41	Reversed flow of Atlantic deep water during the Last Glacial Maximum. Nature, 2010, 468, 84-88.	27.8	85
42	Oxygen isotopes in calcite grown under cave-analogue conditions. Geochimica Et Cosmochimica Acta, 2011, 75, 3956-3972.	3.9	85
43	Controls on the barium isotope compositions of marine sediments. Earth and Planetary Science Letters, 2018, 481, 101-110.	4.4	85
44	231Pa/230Th fractionation by ocean transport, biogenic particle flux and particle type. Earth and Planetary Science Letters, 2005, 237, 135-155.	4.4	84
45	Dust as a tipping element: The BodÃ©lÃ© Depression, Chad. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20564-20571.	7.1	82
46	Calcium isotope ratios in animal and human bone. Geochimica Et Cosmochimica Acta, 2010, 74, 3735-3750.	3.9	80
47	Explaining the Phanerozoic Ca isotope history of seawater. Geology, 2012, 40, 843-846.	4.4	80
48	Precise timing of abrupt increase in dust activity in the Middle East coincident with 4.2 ka social change. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 67-72.	7.1	80
49	Using (234U/238U) to assess diffusion rates of isotope tracers in ferromanganese crusts. Earth and Planetary Science Letters, 1999, 170, 169-179.	4.4	78
50	Strong responses of Southern Ocean phytoplankton communities to volcanic ash. Geophysical Research Letters, 2014, 41, 2851-2857.	4.0	75
51	Fluid flow through carbonate platforms: constraints from 234U/238U and Clâ˜ in Bahamas pore-waters. Earth and Planetary Science Letters, 1999, 169, 99-111.	4.4	73
52	Use of uraniumâ€“thorium dating to determine past 14C reservoir effects in lakes: examples from Antarctica. Earth and Planetary Science Letters, 2001, 193, 565-577.	4.4	72
53	Interpretation of the 231Pa/230Th paleocirculation proxy: New water-column measurements from the southwest Indian Ocean. Earth and Planetary Science Letters, 2006, 241, 493-504.	4.4	72
54	U-Th dating of carbonate platform and slope sediments. Geochimica Et Cosmochimica Acta, 2001, 65, 2757-2770.	3.9	70

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55	Quantifying trace element and isotope fluxes at the oceanâ€“sediment boundary: a review. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160246.	3.4	69
56	Changing ocean circulation and hydrothermal inputs during Ocean Anoxic Event 2 (Cenomanianâ€“Turonian): Evidence from Nd-isotopes in the European shelf sea. Earth and Planetary Science Letters, 2013, 375, 338-348.	4.4	68
57	Variation in bioturbation with water depth on marine slopes: a study on the Little Bahamas Bank. Marine Geology, 1999, 160, 105-118.	2.1	66
58	Report of a three-year monitoring programme at Heshang Cave, Central China. International Journal of Speleology, 2008, 37, 143-151.	1.0	60
59	Early diagenesis of shallow-water periplatform carbonate sediments, leeward margin, Great Bahama Bank (Ocean Drilling Program Leg 166). Bulletin of the Geological Society of America, 2001, 113, 881-894.	3.3	58
60	Increased seasonality in the Western Mediterranean during the last glacial from limpet shell geochemistry. Earth and Planetary Science Letters, 2011, 308, 325-333.	4.4	58
61	U-Th isotope constraints on gas hydrate and pockmark dynamics at the Niger delta margin. Marine Geology, 2015, 370, 87-98.	2.1	56
62	²³⁰Th Normalization: New Insights on an Essential Tool for Quantifying Sedimentary Fluxes in the Modern and Quaternary Ocean. Paleoceanography and Paleoclimatology, 2020, 35, e2019PA003820.	2.9	56
63	The Great Barrier Reef: The Chronological Record from a New Borehole. Journal of Sedimentary Research, 2004, 74, 298-310.	1.6	56
64	Direct Uâ€“Th dating of marine sediments from the two most recent interglacial periods. Nature, 1996, 383, 242-244.	27.8	55
65	226Ra and Ba concentrations in the Ross Sea measured with multicollector ICP mass spectrometry. Marine Chemistry, 2004, 87, 59-71.	2.3	55
66	Controls on seawater 231Pa, 230Th and 232Th concentrations along the flow paths of deep waters in the Southwest Atlantic. Earth and Planetary Science Letters, 2014, 390, 93-102.	4.4	55
67	Variations in GDGT distributions through the water column in the South East Atlantic Ocean. Geochimica Et Cosmochimica Acta, 2014, 132, 337-348.	3.9	53
68	Combining seawater 232Th and 230Th concentrations to determine dust fluxes to the surface ocean. Earth and Planetary Science Letters, 2011, 312, 280-290.	4.4	52
69	End of Green Sahara amplified mid-Âto late Holocene megadroughts in mainland Southeast Asia. Nature Communications, 2020, 11, 4204.	12.8	51
70	Large fractionation of calcium isotopes during cave-analogue calcium carbonate growth. Geochimica Et Cosmochimica Acta, 2011, 75, 3726-3740.	3.9	50
71	Nutrient regimes control phytoplankton ecophysiology in the South Atlantic. Biogeosciences, 2014, 11, 463-479.	3.3	48
72	Barium isotopes in cold-water corals. Earth and Planetary Science Letters, 2018, 491, 183-192.	4.4	47

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73	Modeling the relationship between231Pa/230Th distribution in North Atlantic sediment and Atlantic meridional overturning circulation. Paleoceanography, 2007, 22, .	3.0	45
74	Antarctic lakes suggest millennial reorganizations of Southern Hemisphere atmospheric and oceanic circulation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21355-21359.	7.1	42
75	CALCIUM ISOTOPES IN JUVENILE MILKâ€CONSUMERS. Archaeometry, 2013, 55, 946-957.	1.3	39
76	Lithium isotopes in speleothems: Temperature-controlled variation in silicate weathering during glacial cycles. Earth and Planetary Science Letters, 2017, 469, 64-74.	4.4	39
77	The Indian Summer Monsoon from a Speleothem Î´18O Perspectiveâ€"A Review. Quaternary, 2018, 1, 29.	2.0	39
78	A tropical mechanism for Northern Hemisphere deglaciation. Geochemistry, Geophysics, Geosystems, 2003, 4, n/a-n/a.	2.5	38
79	Deep circulation changes in the central South Atlantic during the past 145 kyrs reflected in a combined 231Pa/230Th, Neodymium isotope and benthic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>Î´</mml:mi><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">C</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>13</mml:mn></mml:mrow></mml:mmultiscripts></mml:math> record. Earth	4.4	38
80	Comment on â€œDo geochemical estimates of sediment focusing pass the sediment test in the equatorial Pacific?â€•by M. Lyle et al.. Paleoceanography, 2007, 22, n/a-n/a.	3.0	37
81	In-phase anomalies in Beryllium-10 production and palaeomagnetic field behaviour during the Iceland Basin geomagnetic excursion. Earth and Planetary Science Letters, 2008, 265, 588-599.	4.4	37
82	Rapid directional changes associated with a 6.5kyr-long Blake geomagnetic excursion at the Blakeâ€"Bahama Outer Ridge. Earth and Planetary Science Letters, 2012, 333-334, 21-34.	4.4	36
83	Calcium isotopes in archaeological bones and their relationship to dairy consumption. Journal of Archaeological Science, 2011, 38, 657-664.	2.4	35
84	Lithium isotopic composition of the McMurdo Dry Valleys aquatic systems. Chemical Geology, 2010, 275, 139-147.	3.3	32
85	Ba, Ra, Th, and U in marine mollusc shells and the potential of 226Ra/Ba dating of Holocene marine carbonate shells. Geochimica Et Cosmochimica Acta, 2004, 68, 89-100.	3.9	31
86	Adsorbed silica in stalagmite carbonate and its relationship to past rainfall. Geochimica Et Cosmochimica Acta, 2005, 69, 2285-2292.	3.9	31
87	Hydroclimatic variability in Southeast Asia over the past two millennia. Earth and Planetary Science Letters, 2019, 525, 115737.	4.4	31
88	Evaluating U-series tools for weathering rate and duration on a soil sequence of known ages. Earth and Planetary Science Letters, 2013, 374, 24-35.	4.4	30
89	Recognition of non-Milankovitch sea-level highstands at 185 and 343 thousand years ago from Uâ€"Th dating of Bahamas sediment. Quaternary Science Reviews, 2006, 25, 3346-3358.	3.0	28
90	Correction of multi-collector-ICP-MS instrumental biases in high-precision uraniumâ€"thorium chronology. International Journal of Mass Spectrometry, 2010, 295, 26-35.	1.5	28

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91	Assessing subsidence rates and paleo water-depths for Tahiti reefs using Uâ€“Th chronology of altered corals. Marine Geology, 2012, 295-298, 86-94.	2.1	27
92	Separation and Measurement of Pa, Th, and U Isotopes in Marine Sediments by Microwave-Assisted Digestion and Multiple Collector Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2009, 81, 1914-1919.	6.5	26
93	Comparison of ¹⁴C and U-Th Ages in Corals from IODP #310 Cores Offshore Tahiti. Radiocarbon, 2013, 55, 1947-1974.	1.8	26
94	A climatic control on reorganization of ocean circulation during the mid-Cenomanian event and Cenomanian-Turonian oceanic anoxic event (OAE 2): Nd isotope evidence. Geology, 2016, 44, 151-154.	4.4	25
95	Estuarine processes modify the isotope composition of dissolved riverine barium fluxes to the ocean. Chemical Geology, 2021, 579, 120340.	3.3	25
96	ratios in quaternary planktonic foraminifera. Geochimica Et Cosmochimica Acta, 1995, 59, 4685-4694.	3.9	24
97	12. The U-series Toolbox for Paleoceanography. , 2003, , 493-532.		24
98	Control on (234U/238U) in lake water: A study in the Dry Valleys of Antarctica. Chemical Geology, 2006, 226, 298-308.	3.3	24
99	PROGRAM UPDATE | GEOTRACESâ€”A Global Study of the Marine Biogeochemical Cycles of Trace Elements and Their Isotopes. Oceanography, 2005, 18, 76-79.	1.0	24
100	Modeling the particle flux effect on distribution of ²³⁰Th in the equatorial Pacific. Paleoceanography, 2008, 23, .	3.0	23
101	Precise measurement of 228Ra/226Ra ratios and Ra concentrations in seawater samples by multi-collector ICP mass spectrometry. Journal of Analytical Atomic Spectrometry, 2011, 26, 1338.	3.0	23
102	Improved determination of marine sedimentation rates using ²³⁰Th_{xs}. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	23
103	Controls on the cadmium isotope composition of modern marine sediments. Earth and Planetary Science Letters, 2021, 565, 116946.	4.4	22
104	Constant bottom water flow into the Indian Ocean for the past 140 ka indicated by sediment ²³¹Pa/²³⁰Th ratios. Paleoceanography, 2007, 22, .	3.0	20
105	An Acetic Acidâ€Based Extraction Protocol for the Recovery of U, Th and Pb from Calcium Carbonates for Uâ€(Th)â€Pb Geochronology. Geostandards and Geoanalytical Research, 2013, 37, 261-275.	3.1	19
106	CaveCalc: A new model for speleothem chemistry & isotopes. Computers and Geosciences, 2018, 119, 115-122.	4.2	19
107	Glacial-to-Holocene sedimentation on the western slope of Great Bahama Bank. Marine Geology, 2002, 185, 165-176.	2.1	18
108	A Robust Procedure for Highâ€Precision Determination of Rare Earth Element Concentrations in Seawater. Geostandards and Geoanalytical Research, 2015, 39, 277-292.	3.1	18

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109	Controls on the Cd-isotope composition of Upper Cretaceous (Cenomanianâ€“Turonian) organic-rich mudrocks from south Texas (Eagle Ford Group). Geochimica Et Cosmochimica Acta, 2020, 287, 251-262.	3.9	17
110	High-resolution data of the Iceland Basin geomagnetic excursion from ODP sites 1063 and 983: Existence of intense flux patches during the excursion?. Earth and Planetary Science Letters, 2006, 251, 18-32.	4.4	16
111	Reconstructing Holocene conditions under the McMurdo Ice Shelf using Antarctic barnacle shells. Earth and Planetary Science Letters, 2010, 298, 385-393.	4.4	14
112	Seven thousand year duration for a geomagnetic excursion constrained by ²³⁰Th_{xs}. Geophysical Research Letters, 2007, 34, .	4.0	13
113	Speleothem evidence for MIS 5c and 5a sea level above modern level at Bermuda. Earth and Planetary Science Letters, 2017, 457, 325-334.	4.4	13
114	Evolution of ²³¹Pa and ²³⁰Th in overflow waters of the North Atlantic. Biogeosciences, 2018, 15, 7299-7313.	3.3	12
115	Using the radium quartet (228 Ra, 226 Ra, 224 Ra, and 223 Ra) to estimate water mixing and radium inputs in Loch Etive, Scotland. Limnology and Oceanography, 2013, 58, 1089-1102.	3.1	10
116	Introduction to the French GEOTRACES North Atlantic Transect (GA01): GEOVIDE cruise. Biogeosciences, 2018, 15, 7097-7109.	3.3	10
117	High-resolution record of the Laschamp geomagnetic excursion at the Blake-Bahama Outer Ridge. Geophysical Journal International, 2013, 195, 1519-1533.	2.4	9
118	The lithium and magnesium isotope signature of olivine dissolution in soil experiments. Chemical Geology, 2021, 560, 120008.	3.3	9
119	Recommendations for future measurement and modelling of particles in GEOTRACES and other ocean biogeochemistry programmes. Progress in Oceanography, 2015, 133, 73-78.	3.2	7
120	Permafrost-related hiatuses in stalagmites: Evaluating the potential for reconstruction of carbon cycle dynamics. Quaternary Geochronology, 2020, 56, 101037.	1.4	7
121	Radium-228-derived ocean mixing and trace element inputs in the South Atlantic. Biogeosciences, 2021, 18, 1645-1671.	3.3	6
122	OCEAN SCIENCE: Coral Clues to Rapid Sea-Level Change. Science, 2005, 308, 361-362.	12.6	5
123	Reply to Morel: Cadmium as a micronutrient and macrotoxin in the oceans. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1878-E1878.	7.1	5
124	Ocean trace element cycles. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150300.	3.4	5
125	Radiocarbon Ages Constraints on the Origin and Shedding of Bank-Top Sediment in the Bahamas during the Holocene. Aquatic Geochemistry, 2011, 17, 419-429.	1.3	3
126	Ice-sheet expansion from the Ross Sea into McMurdo Sound, Antarctica, during the last two glaciations. Quaternary Science Reviews, 2022, 278, 107379.	3.0	3

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127	Response to comment on Day and Henderson â€œOxygen isotopes in calcite grown under cave-analogue conditionsâ€. Geochimica Et Cosmochimica Acta, 2012, 85, 388-389.	3.9	2
128	A simplified isotope dilution approach for the Uâ€“Pb dating of speleogenic and other low-²³²Th carbonates by multi-collector ICP-MS. Geochronology, 2022, 4, 33-54.	2.5	2
129	Southern hemisphere forced millennial scale Indian summer monsoon variability during the late Pleistocene. Scientific Reports, 2022, 12, .	3.3	2
130	Identifying vital effects in <i>Halimeda</i> algae with Ca isotopes. Biogeosciences, 2014, 11, 7207-7217.	3.3	1