

Ed C Hathorne

List of Publications by Year in descending order

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77
papers

3,935
citations

87888

38
h-index

128289

60
g-index

83
all docs

83
docs citations

83
times ranked

4299
citing authors

#	ARTICLE	IF	CITATIONS
1	A Cenozoic record of the equatorial Pacific carbonate compensation depth. <i>Nature</i> , 2012, 488, 609-614.	27.8	342
2	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	3.3	257
3	Interlaboratory study for coral Sr/Ca and other element/Ca ratio measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3730-3750.	2.5	183
4	Interlaboratory comparison study of calibration standards for foraminiferal Mg/Ca thermometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	168
5	Temporal record of lithium in seawater: A tracer for silicate weathering?. <i>Earth and Planetary Science Letters</i> , 2006, 246, 393-406.	4.4	136
6	GEOTRACES intercalibration of neodymium isotopes and rare earth element concentrations in seawater and suspended particles. Part 1: reproducibility of results for the international intercomparison. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 234-251.	2.0	119
7	Online preconcentration ICP-MS analysis of rare earth elements in seawater. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	110
8	Environmental versus biomineralization controls on the intratest variation in the trace element composition of the planktonic foraminifera <i>G. inflata</i> and <i>G. scitula</i> . <i>Paleoceanography</i> , 2009, 24, .	3.0	103
9	Stable Sr-isotope, Sr/Ca, Mg/Ca, Li/Ca and Mg/Li ratios in the scleractinian cold-water coral <i>Lophelia pertusa</i> . <i>Chemical Geology</i> , 2013, 352, 143-152.	3.3	103
10	High-precision radiogenic strontium isotope measurements of the modern and glacial ocean: Limits on glacial-interglacial variations in continental weathering. <i>Earth and Planetary Science Letters</i> , 2015, 415, 111-120.	4.4	91
11	Determination of intratest variability of trace elements in foraminifera by laser ablation inductively coupled plasma-mass spectrometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	85
12	Rare earth element distribution in Caribbean seawater: Continental inputs versus lateral transport of distinct REE compositions in subsurface water masses. <i>Marine Chemistry</i> , 2015, 177, 172-183.	2.3	84
13	South Asian summer monsoon variability during the last 1454 kyr inferred from surface water salinity and river runoff proxies. <i>Quaternary Science Reviews</i> , 2016, 138, 6-15.	3.0	83
14	Rare earth element distribution in the Atlantic sector of the Southern Ocean: The balance between particle scavenging and vertical supply. <i>Marine Chemistry</i> , 2015, 177, 157-171.	2.3	78
15	South Pacific dissolved Nd isotope compositions and rare earth element distributions: Water mass mixing versus biogeochemical cycling. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 127, 171-189.	3.9	74
16	Constraining the oceanic barium cycle with stable barium isotopes. <i>Earth and Planetary Science Letters</i> , 2016, 434, 1-9.	4.4	73
17	South Asian monsoon history over the past 60 kyr recorded by radiogenic isotopes and clay mineral assemblages in the Andaman Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 505-521.	2.5	63
18	Southern Hemisphere forcing of South Asian monsoon precipitation over the past ~1 million years. <i>Nature Communications</i> , 2018, 9, 4702.	12.8	62

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19	Modern and late Pleistocene B/Ca ratios of the benthic foraminifer <i>Planulina wuellerstorfi</i> determined with laser ablation ICP-MS. <i>Geology</i> , 2011, 39, 1039-1042.	4.4	61
20	Lithium in the aragonite skeletons of massive <i>Porites</i> corals: A new tool to reconstruct tropical sea surface temperatures. <i>Paleoceanography</i> , 2013, 28, 143-152.	3.0	61
21	Biogeochemical implications from dissolved rare earth element and Nd isotope distributions in the Gulf of Alaska. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 455-474.	3.9	61
22	Pronounced interannual variability in tropical South Pacific temperatures during Heinrich Stadial 1. <i>Nature Communications</i> , 2012, 3, 965.	12.8	60
23	Synchronicity of Kuroshio Current and climate system variability since the Last Glacial Maximum. <i>Earth and Planetary Science Letters</i> , 2016, 452, 247-257.	4.4	57
24	Controls on calcium isotope fractionation in cultured planktic foraminifera, <i>Globigerinoides ruber</i> and <i>Globigerinella siphonifera</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 427-443.	3.9	54
25	Glacial to Holocene surface hydrography of the tropical eastern Indian Ocean. <i>Earth and Planetary Science Letters</i> , 2010, 292, 89-97.	4.4	51
26	Neodymium isotopes and concentrations in Caribbean seawater: Tracing water mass mixing and continental input in a semi-enclosed ocean basin. <i>Earth and Planetary Science Letters</i> , 2014, 406, 174-186.	4.4	51
27	Variability in calcitic Mg/Ca and Sr/Ca ratios in clones of the benthic foraminifer <i>Ammonia tepida</i> . <i>Marine Micropaleontology</i> , 2014, 107, 32-43.	1.2	50
28	Physical and chemical characteristics of particles produced by laser ablation of biogenic calcium carbonate. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 240-243.	3.0	49
29	Rare earth elements as indicators of hydrothermal processes within the East Scotia subduction zone system. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 20-38.	3.9	49
30	Variations in the strontium isotope composition of seawater during the Paleocene and early Eocene from ODP Leg 208 (Walvis Ridge). <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	45
31	Sources and input mechanisms of hafnium and neodymium in surface waters of the Atlantic sector of the Southern Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 94, 22-37.	3.9	45
32	Constraining foraminiferal calcification depths in the western Pacific warm pool. <i>Marine Micropaleontology</i> , 2016, 128, 14-27.	1.2	45
33	The potential of sedimentary foraminiferal rare earth element patterns to trace water masses in the past. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1550-1568.	2.5	45
34	Rare Earth Element Distribution in the NE Atlantic: Evidence for Benthic Sources, Longevity of the Seawater Signal, and Biogeochemical Cycling. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	44
35	Environmental boundary conditions of cold-water coral mound growth over the last 3 million years in the Porcupine Seabight, Northeast Atlantic. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 99, 227-236.	1.4	43
36	Assessment of seawater Nd isotope signatures extracted from foraminiferal shells and authigenic phases of Gulf of Guinea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 414-435.	3.9	42

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37	Variability of carbonate diagenesis in equatorial Pacific sediments deduced from radiogenic and stable Sr isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 148, 360-377.	3.9	42
38	Ocean circulation and freshwater pathways in the Arctic Mediterranean based on a combined Nd isotope, REE and oxygen isotope section across Fram Strait. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 202, 285-309.	3.9	40
39	U/Ca in benthic foraminifers: A proxy for the deep-sea carbonate saturation. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	36
40	Short-term variability of dissolved rare earth elements and neodymium isotopes in the entire water column of the Panama Basin. <i>Earth and Planetary Science Letters</i> , 2017, 475, 242-253.	4.4	36
41	Chromium isotope fractionation between modern seawater and biogenic carbonates from the Great Barrier Reef, Australia: Implications for the paleo-seawater $\delta^{53}\text{Cr}$ reconstruction. <i>Earth and Planetary Science Letters</i> , 2018, 498, 140-151.	4.4	36
42	Mg/Ca ratios of single planktonic foraminifer shells and the potential to reconstruct the thermal seasonality of the water column. <i>Paleoceanography</i> , 2011, 26, .	3.0	34
43	The influence of seawater pH on U / Ca ratios in the scleractinian cold-water coral <i>Lophelia pertusa</i> . <i>Biogeosciences</i> , 2014, 11, 1863-1871.	3.3	33
44	Rapid deglacial injection of nutrients into the tropical Atlantic via Antarctic Intermediate Water. <i>Earth and Planetary Science Letters</i> , 2017, 463, 118-126.	4.4	31
45	Sub-Permil Interlaboratory Consistency for Solution-Based Boron Isotope Analyses on Marine Carbonates. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 59-75.	3.1	31
46	Laser ablation ICP-MS screening of corals for diagenetically affected areas applied to Tahiti corals from the last deglaciation. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1490-1506.	3.9	30
47	The Influence of Basaltic Islands on the Oceanic REE Distribution: A Case Study From the Tropical South Pacific. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	29
48	Nd and Sr isotope compositions of different phases of surface sediments in the South Pacific: Extraction of seawater signatures, boundary exchange, and detrital/dust provenance. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3502-3520.	2.5	28
49	Transport and transformation of riverine neodymium isotope and rare earth element signatures in high latitude estuaries: A case study from the Laptev Sea. <i>Earth and Planetary Science Letters</i> , 2017, 477, 205-217.	4.4	27
50	What Can We Learn From X-Ray Fluorescence Core Scanning Data? A Paleomonsoon Case Study. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008414.	2.5	27
51	Salinity control on Na incorporation into calcite tests of the planktonic foraminifera <i>Trilobatus sacculifer</i> : evidence from culture experiments and surface sediments. <i>Biogeosciences</i> , 2018, 15, 5991-6018.	3.3	26
52	Water mass circulation and weathering inputs in the Labrador Sea based on coupled Hf-Nd isotope compositions and rare earth element distributions. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 164-184.	3.9	24
53	Glacial induced closure of the Panamanian Gateway during Marine Isotope Stages (MIS) 95-100 ($\delta^{18}\text{O}$ 11.5‰) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 102 T	4.4	22
54	Tracing water mass mixing and continental inputs in the southeastern Atlantic Ocean with dissolved neodymium isotopes. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115944.	4.4	20

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55	Minimal influence of recrystallization on middle Miocene benthic foraminiferal stable isotope stratigraphy in the eastern equatorial Pacific. <i>Paleoceanography</i> , 2016, 31, 98-114.	3.0	19
56	Constraining barium isotope fractionation in the upper water column of the South China Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 288, 120-137.	3.9	19
57	Persistent Provenance of South Asian Monsoon-Induced Silicate Weathering Over the Past 27 Million Years. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA003909.	2.9	19
58	Water mass transformation in the Barents Sea inferred from radiogenic neodymium isotopes, rare earth elements and stable oxygen isotopes. <i>Chemical Geology</i> , 2019, 511, 416-430.	3.3	16
59	Dissolved neodymium and hafnium isotopes and rare earth elements in the Congo River Plume: Tracing and quantifying continental inputs into the southeast Atlantic. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 294, 192-214.	3.9	15
60	Stable Barium Isotope Dynamics During Estuarine Mixing. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095680.	4.0	15
61	Deglacial Heat Uptake by the Southern Ocean and Rapid Northward Redistribution Via Antarctic Intermediate Water. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 1292-1305.	2.9	14
62	Evidence for increasing anthropogenic Pb concentrations in Indian shelf sediments during the last century. <i>Science of the Total Environment</i> , 2021, 760, 143833.	8.0	13
63	The distribution of neodymium isotopes and concentrations in the eastern tropical North Atlantic. <i>Chemical Geology</i> , 2019, 511, 265-278.	3.3	12
64	Mg/Ca and $\delta^{18}O$ in living planktic foraminifers from the Caribbean, Gulf of Mexico and Florida Straits. <i>Biogeosciences</i> , 2018, 15, 7077-7095.	3.3	11
65	The impact of MC-ICP-MS plasma conditions on the accuracy and precision of stable isotope measurements evaluated for barium isotopes. <i>Chemical Geology</i> , 2020, 549, 119697.	3.3	11
66	A Brief Commentary on the Interpretation of Chinese Speleothem $\delta^{18}O$ Records as Summer Monsoon Intensity Tracers. <i>Quaternary</i> , 2020, 3, 7.	2.0	11
67	Efficient Extraction of Past Seawater Pb and Nd Isotope Signatures From Southern Ocean Sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009287.	2.5	11
68	IODP Expedition 310 Reconstructs Sea Level, Climatic and Environmental changes in the South Pacific during the Last Deglaciation. <i>Scientific Drilling</i> , 2007, , .	0.6	11
69	Rare Earth Elements in Andaman Island Surface Seawater: Geochemical Tracers for the Monsoon?. <i>Frontiers in Marine Science</i> , 2020, 6, .	2.5	10
70	Provenance and Weathering of Clays Delivered to the Bay of Bengal During the Middle Miocene: Linkages to Tectonics and Monsoonal Climate. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA003917.	2.9	10
71	An experimental investigation of the acquisition of Nd by authigenic phases of marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 301, 1-29.	3.9	6
72	Monthly resolved coral barium isotopes record increased riverine inputs during the South Asian summer monsoon. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 329, 152-167.	3.9	5

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73	Late Pliocene and Early Pleistocene Variability of the REE and Nd Isotope Composition of Caribbean Bottom Water: A Record of Changes in Sea Level and Terrestrial Inputs During the Final Stages of Central American Seaway Closure. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 2067-2079.	2.9	4
74	Enhanced Late Miocene Chemical Weathering and Altered Precipitation Patterns in the Watersheds of the Bay of Bengal Recorded by Detrital Clay Radiogenic Isotopes. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2021PA004252.	2.9	3
75	Heavy metal uptake of nearshore benthic foraminifera during multi-metal culturing experiments. <i>Biogeosciences</i> , 2022, 19, 629-664.	3.3	3
76	No modern Irrawaddy River until the late Miocene-Pliocene. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117516.	4.4	1
77	Corrigendum to "The influence of seawater pH on U / Ca ratios in the scleractinian cold-water coral <i>Lophelia pertusa</i> " published in <i>Biogeosciences</i> , 11, 1863-1871, 2014. <i>Biogeosciences</i> , 2014, 11, 2373-2373.	3.3	0