

# Benjamin H Passey

## List of Publications by Year in descending order

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77  
papers

7,550  
citations

66343

42  
h-index

76900

74  
g-index

77  
all docs

77  
docs citations

77  
times ranked

4693  
citing authors

#	ARTICLE	IF	CITATIONS
1	Defining an absolute reference frame for $\delta^{13}\text{C}$ clumped isotope studies of $\text{CO}_2$ . <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7117-7131.	3.9	497
2	Carbon isotope fractionation between diet, breath $\text{CO}_2$ , and bioapatite in different mammals. <i>Journal of Archaeological Science</i> , 2005, 32, 1459-1470.	2.4	484
3	Methods and limitations of $\delta^{13}\text{C}$ clumped $\text{CO}_2$ isotope ( $\delta^{13}\text{C}_{\text{clumped}}$ ) analysis by gas source isotope ratio mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1318-1329.	1.6	371
4	High-temperature environments of human evolution in East Africa based on bond ordering in paleosol carbonates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11245-11249.	7.1	363
5	A stable isotope aridity index for terrestrial environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11201-11205.	7.1	354
6	DIETS OF EAST AFRICAN BOVIDAE BASED ON STABLE ISOTOPE ANALYSIS. <i>Journal of Mammalogy</i> , 2003, 84, 456-470.	1.3	338
7	Tooth enamel mineralization in ungulates: implications for recovering a primary isotopic time-series. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3225-3234.	3.9	257
8	An experimental study of carbon-isotope fractionation between diet, hair, and feces of mammalian herbivores. <i>Canadian Journal of Zoology</i> , 2003, 81, 871-876.	1.0	237
9	Carbonate clumped isotope bond reordering and geospeedometry. <i>Earth and Planetary Science Letters</i> , 2012, 351-352, 223-236.	4.4	227
10	Turnover of carbon isotopes in tail hair and breath $\text{CO}_2$ of horses fed an isotopically varied diet. <i>Oecologia</i> , 2004, 139, 11-22.	2.0	222
11	Isotopic Evidence for Dietary Variability in the Early Hominin <i>Paranthropus robustus</i> . <i>Science</i> , 2006, 314, 980-982.	12.6	206
12	Carbonate clumped isotope compositions of modern marine mollusk and brachiopod shells. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 106, 307-325.	3.9	204
13	Temperature limits for preservation of primary calcite clumped isotope paleotemperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 362-382.	3.9	202
14	Turnover of oxygen and hydrogen isotopes in the body water, $\text{CO}_2$ , hair, and enamel of a small mammal. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 19-35.	3.9	199
15	Dietary changes of large herbivores in the Turkana Basin, Kenya from 4 to 1 Ma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11467-11472.	7.1	191
16	Calibration of the dolomite clumped isotope thermometer from 25 to 350 $^\circ\text{C}$ , and implications for a universal calibration for all $(\text{Ca}, \text{Mg}, \text{Fe})\text{CO}_3$ carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 200, 255-279.	3.9	172
17	The diet of <i>Australopithecus sediba</i> . <i>Nature</i> , 2012, 487, 90-93.	27.8	165
18	Environmental Change in the Great Plains: An Isotopic Record from Fossil Horses. <i>Journal of Geology</i> , 2002, 110, 123-140.	1.4	164

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19	Strengthened East Asian summer monsoons during a period of high-latitude warmth? Isotopic evidence from Mio-Pliocene fossil mammals and soil carbonates from northern China. <i>Earth and Planetary Science Letters</i> , 2009, 277, 443-452.	4.4	161
20	Determining biological tissue turnover using stable isotopes: the reaction progress variable. <i>Oecologia</i> , 2007, 151, 175-189.	2.0	145
21	Effects of Improved <sup>17</sup> O Correction on Interlaboratory Agreement in Clumped Isotope Calibrations, Estimates of Mineral-Specific Offsets, and Temperature Dependence of Acid Digestion Fractionation. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3495-3519.	2.5	134
22	The isotope record of short- and long-term dietary changes in sheep tooth enamel: Implications for quantitative reconstruction of paleodiets. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3571-3586.	3.9	118
23	Clumped isotope evidence for diachronous surface cooling of the Altiplano and pulsed surface uplift of the Central Andes. <i>Earth and Planetary Science Letters</i> , 2014, 393, 173-181.	4.4	113
24	InterCarb: A Community Effort to Improve Interlaboratory Standardization of the Carbonate Clumped Isotope Thermometer Using Carbonate Standards. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009588.	2.5	110
25	An experimental study of nitrogen flux in llamas: is <sup>14</sup> N preferentially excreted?. <i>Journal of Archaeological Science</i> , 2003, 30, 1649-1655.	2.4	109
26	Triple oxygen isotopes in biogenic and sedimentary carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 141, 1-25.	3.9	109
27	Temperature evolution and the oxygen isotope composition of Phanerozoic oceans from carbonate clumped isotope thermometry. <i>Earth and Planetary Science Letters</i> , 2018, 490, 40-50.	4.4	108
28	Stable isotope ecology of the common hippopotamus. <i>Journal of Zoology</i> , 2008, 276, 204-212.	1.7	105
29	Formation of dolomite at 40–80 °C in the Latemar carbonate buildup, Dolomites, Italy, from clumped isotope thermometry. <i>Geology</i> , 2011, 39, 571-574.	4.4	105
30	Stable isotopes in fossil hominin tooth enamel suggest a fundamental dietary shift in the Pliocene. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 3389-3396.	4.0	97
31	Calibration of the clumped isotope geothermometer in soil carbonate in Wyoming and Nebraska, USA: Implications for paleoelevation and paleoclimate reconstruction. <i>Earth and Planetary Science Letters</i> , 2014, 391, 110-120.	4.4	75
32	Inverse methods for estimating primary input signals from time-averaged isotope profiles. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4101-4116.	3.9	74
33	Using carbon isotopes to track dietary change in modern, historical, and ancient primates. <i>American Journal of Physical Anthropology</i> , 2009, 140, 661-670.	2.1	69
34	Digestion and passage rates of grass hays by llamas, alpacas, goats, rabbits, and horses. <i>Small Ruminant Research</i> , 2003, 48, 149-154.	1.2	67
35	Small mammal carbon isotope ecology across the Miocene–Pliocene boundary, northwestern Argentina. <i>Earth and Planetary Science Letters</i> , 2012, 321-322, 177-188.	4.4	64
36	In situ stable isotope analysis ( <sup>13</sup> C, <sup>18</sup> O) of very small teeth using laser ablation GC/IRMS. <i>Chemical Geology</i> , 2006, 235, 238-249.	3.3	62

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37	Dynamic polar climates in a greenhouse world: Evidence from clumped isotope thermometry of Early Cretaceous belemnites. <i>Geology</i> , 2013, 41, 923-926.	4.4	61
38	Temperature dependence of oxygen isotope acid fractionation for modern and fossil tooth enamels. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 2853-2859.	1.5	56
39	Triple oxygen isotope signatures of evaporation in lake waters and carbonates: A case study from the western United States. <i>Earth and Planetary Science Letters</i> , 2019, 518, 1-12.	4.4	54
40	Orphans' tales: seasonal dietary changes in elephants from Tsavo National Park, Kenya. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 206, 367-376.	2.3	50
41	Paleosol carbonate multiple isotopologue signature of active East Asian summer monsoons during the late Miocene and Pliocene. <i>Geology</i> , 2011, 39, 1151-1154.	4.4	49
42	Triple oxygen isotopes in the water cycle. <i>Chemical Geology</i> , 2021, 565, 120026.	3.3	49
43	Stable isotope ecology of fossil hippopotamids from the Lake Turkana Basin of East Africa. <i>Journal of Zoology</i> , 2008, 275, 323-331.	1.7	45
44	Diet and environment of a mid-Pliocene fauna from southwestern Himalaya: Paleo-elevation implications. <i>Earth and Planetary Science Letters</i> , 2013, 376, 43-53.	4.4	40
45	Triple Oxygen Isotopes in Meteoric Waters, Carbonates, and Biological Apatites: Implications for Continental Paleoclimate Reconstruction. <i>Reviews in Mineralogy and Geochemistry</i> , 2021, 86, 429-462.	4.8	40
46	Middle to late Cenozoic cooling and high topography in the central Rocky Mountains: Constraints from clumped isotope geochemistry. <i>Earth and Planetary Science Letters</i> , 2014, 408, 35-47.	4.4	30
47	Seasonal Bias in Soil Carbonate Formation and Its Implications for Interpreting High-Resolution Paleoarchives: Evidence From Southern Utah. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 616-632.	3.0	30
48	Climatic and diagenetic signals in the stable isotope geochemistry of dolomitic paleosols spanning the Paleocene-Eocene boundary. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 109, 254-267.	3.9	29
49	Stable Isotope Ecology in the Omo-Turkana Basin. <i>Evolutionary Anthropology</i> , 2011, 20, 228-237.	3.4	27
50	Reconstructing Holocene temperature and salinity variations in the western Baltic Sea region: a multi-proxy comparison from the Little Belt (IODP Expedition 347, Site M0059). <i>Biogeosciences</i> , 2017, 14, 5607-5632.	3.3	26
51	Influence of water on clumped-isotope bond reordering kinetics in calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 224, 42-63.	3.9	26
52	Clumped isotope thermometry in deeply buried sedimentary carbonates: The effects of bond reordering and recrystallization. <i>Bulletin of the Geological Society of America</i> , 0, , B31169.1.	3.3	22
53	Terrestrial cooling and changes in hydroclimate in the continental interior of the United States across the Eocene-Oligocene boundary. <i>Bulletin of the Geological Society of America</i> , 2018, 130, 1073-1084.	3.3	21
54	Digestibility and nitrogen retention in llamas and goats fed alfalfa, C3 grass, and C4 grass hays. <i>Small Ruminant Research</i> , 2006, 64, 162-168.	1.2	17

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55	Response to the comment by M. J. Kohn on "Tooth Enamel Mineralization in Ungulates: Implications for Recovering a Primary Isotopic Time-Series," by B. H. Passey and T. E. Cerling (2002). <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 407-409.	3.9	14
56	Stable carbon isotope ecology of small mammals from the Sterkfontein Valley: Implications for habitat reconstruction. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 485, 57-67.	2.3	14
57	Stable Carbon and Oxygen Isotopes in East African Mammals: Modern and Fossil. , 2010, , 941-952.		14
58	A framework for triple oxygen isotopes in speleothem paleoclimatology. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 319, 191-219.	3.9	13
59	Reconstructing Terrestrial Environments Using Stable Isotopes in Fossil Teeth and Paleosol Carbonates. <i>The Paleontological Society Papers</i> , 2012, 18, 167-194.	0.6	12
60	Assessment of the clumped isotope composition of fossil bone carbonate as a recorder of subsurface temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 142-159.	3.9	12
61	Exploring the Potential of Laser Ablation Carbon Isotope Analysis for Examining Ecology during the Ontogeny of Middle Pleistocene Hominins from Sima de los Huesos (Northern Spain). <i>PLoS ONE</i> , 2015, 10, e0142895.	2.5	12
62	The Habitat of the Nascent Chicxulub Crater. <i>AGU Advances</i> , 2020, 1, e2020AV000208.	5.4	12
63	Stratigraphy and Paleoecology of the Classical Dragon Bone Localities of Baode County, Shanxi Province. , 2013, , 203-217.		12
64	Triple oxygen and clumped isotopes in modern soil carbonate along an aridity gradient in the Serengeti, Tanzania. <i>Earth and Planetary Science Letters</i> , 2021, 567, 116952.	4.4	10
65	Small mammal insectivore stable carbon isotope compositions as habitat proxies in a South African savanna ecosystem. <i>Journal of Archaeological Science: Reports</i> , 2016, 8, 335-345.	0.5	8
66	The burial and exhumation history of the Liuqu Conglomerate in the Yarlung Zangbo suture zone, southern Tibet: Insights from clumped isotope thermometry. <i>Journal of Asian Earth Sciences</i> , 2019, 174, 205-217.	2.3	7
67	Clumped isotope thermometry of modern and fossil snail shells from the Himalayan-Tibetan Plateau: Implications for paleoclimate and paleoelevation reconstructions. <i>Bulletin of the Geological Society of America</i> , 2021, 133, 1370-1380.	3.3	7
68	Triple oxygen isotope distribution in modern mammal teeth and potential geologic applications. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 331, 105-122.	3.9	7
69	Age and stratigraphic context of <i>Pliopithecus</i> and associated fauna from Miocene sedimentary strata at Damiao, Inner Mongolia, China. <i>Journal of Asian Earth Sciences</i> , 2015, 100, 78-90.	2.3	6
70	Biogeochemical tales told by isotope clumps. <i>Science</i> , 2015, 348, 394-395.	12.6	6
71	Laminated soil carbonate rinds as a paleoclimate archive of the Colorado Plateau. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 282, 227-244.	3.9	6
72	Clumped isotope Geothermometry and Carbonate U-Pb Geochronology of the Alta Stock Metamorphic Aureole, Utah, USA: Insights on the Kinetics of Metamorphism in Carbonates. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009238.	2.5	6

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73	Dam Fun: A Scale-model Classroom Experiment for Teaching Basic Concepts in Hydrology and Sedimentary Geology. <i>Journal of Geoscience Education</i> , 2006, 54, 487-490.	1.4	5
74	Here be Dragons: Mesowear and Tooth Enamel Isotopes of the Classic Chinese "Hipparion" Faunas from Baode, Shanxi Province, China. <i>Annales Zoologici Fennici</i> , 2014, 51, 227-455.	0.6	5
75	Looking upstream with clumped and triple oxygen isotopes of estuarine oyster shells in the early Eocene of California, USA. <i>Geology</i> , 2022, 50, 755-759.	4.4	5
76	Small mammal tooth enamel carbon isotope record of C4 grasses in late Neogene China. <i>Global and Planetary Change</i> , 2015, 133, 288-297.	3.5	4
77	The palaeoenvironment of the middle Miocene pliopithecoid locality in Damiao, Inner Mongolia, China. <i>Journal of Human Evolution</i> , 2017, 108, 31-46.	2.6	3