

Erik T. Brown

List of Publications by Year in descending order

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75
papers

5,782
citations

87888

38
h-index

82547

72
g-index

78
all docs

78
docs citations

78
times ranked

5452
citing authors

#	ARTICLE	IF	CITATIONS
1	Denudation rates determined from the accumulation of in situ-produced ^{10}Be in the Luquillo experimental forest, Puerto Rico. <i>Earth and Planetary Science Letters</i> , 1995, 129, 193-202.	4.4	473
2	East African megadroughts between 135 and 75 thousand years ago and bearing on early-modern human origins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16416-16421.	7.1	369
3	History and timing of human impact on Lake Victoria, East Africa. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 289-294.	2.6	316
4	Examination of surface exposure ages of Antarctic moraines using in situ produced ^{10}Be and ^{26}Al . <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 2269-2283.	3.9	295
5	Ecological consequences of early Late Pleistocene megadroughts in tropical Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16422-16427.	7.1	247
6	Crustal Shortening on the Margins of the Tien Shan, Xinjiang, China. <i>International Geology Review</i> , 1999, 41, 665-700.	2.1	224
7	A High-Resolution Paleoclimate Record Spanning the Past 25,000 Years in Southern East Africa. <i>Science</i> , 2002, 296, 113-132.	12.6	220
8	The Holocene paleolimnology of Lake Issyk-Kul, Kyrgyzstan: trace element and stable isotope composition of ostracodes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2001, 176, 207-227.	2.3	216
9	Quaternary Climate Change and the Formation of River Terraces across Growing Anticlines on the North Flank of the Tien Shan, China. <i>Journal of Geology</i> , 1994, 102, 583-602.	1.4	207
10	In situ produced ^{10}Be measurements at great depths: implications for production rates by fast muons. <i>Earth and Planetary Science Letters</i> , 2003, 211, 251-258.	4.4	159
11	Fluvial geochemistry of the eastern slope of the northeastern Andes and its foredeep in the drainage of the Orinoco in Colombia and Venezuela. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 2949-2974.	3.9	137
12	Phosphorus and trace metal limitation of algae and bacteria in Lake Superior. <i>Limnology and Oceanography</i> , 2004, 49, 495-507.	3.1	132
13	Chronology of Taylor Glacier Advances in Arena Valley, Antarctica, Using in Situ Cosmogenic ^3He and ^{10}Be . <i>Quaternary Research</i> , 1993, 39, 11-23.	1.7	126
14	Effective attenuation lengths of cosmic rays producing ^{10}Be AND ^{26}Al in quartz: Implications for exposure age dating. <i>Geophysical Research Letters</i> , 1992, 19, 369-372.	4.0	125
15	Extended megadroughts in the southwestern United States during Pleistocene interglacials. <i>Nature</i> , 2011, 470, 518-521.	27.8	124
16	Estimation of slip rates in the southern Tien Shan using cosmic ray exposure dates of abandoned alluvial fans. <i>Bulletin of the Geological Society of America</i> , 1998, 110, 377-386.	3.3	115
17	Tropical East African climate change and its relation to global climate: A record from Lake Tanganyika, Tropical East Africa, over the past 90+ kyr. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 303, 155-167.	2.3	110
18	Continuous 1.3-million-year record of East African hydroclimate, and implications for patterns of evolution and biodiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15568-15573.	7.1	105

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19	The role of the Ganges-Brahmaputra mixing zone in supplying barium and ^{226}Ra to the Bay of Bengal. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 2981-2990.	3.9	101
20	Constraints on age, erosion, and uplift of Neogene glacial deposits in the Transantarctic Mountains determined from in situ cosmogenic ^{10}Be and ^{26}Al . <i>Geology</i> , 1995, 23, 1063.	4.4	101
21	Beryllium isotope geochemistry in tropical river basins. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 1607-1624.	3.9	99
22	Determination of predevelopment denudation rates of an agricultural watershed (Cayaguãjs River, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 1998, 160, 723-728.	4.4	97
23	A progressively wetter climate in southern East Africa over the past 1.3 million years. <i>Nature</i> , 2016, 537, 220-224.	27.8	88
24	Evidence for muon-induced production of ^{10}Be in near-surface rocks from the Congo. <i>Geophysical Research Letters</i> , 1995, 22, 703-706.	4.0	86
25	Geochemical cycling of redox-sensitive metals in sediments from lake malawi: a diagnostic paleotracer for episodic changes in mixing depth. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 3515-3523.	3.9	85
26	Scientific drilling in the Great Rift Valley: The 2005 Lake Malawi Scientific Drilling Project " An overview of the past 145,000years of climate variability in Southern Hemisphere East Africa. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 303, 3-19.	2.3	85
27	Modern hydrology and late Holocene history of Lake Karakul, eastern Pamirs (Tajikistan): A reconnaissance study. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 289, 10-24.	2.3	80
28	Estimation of carbonate, total organic carbon, and biogenic silica content by FTIR and XRF techniques in lacustrine sediments. <i>Journal of Paleolimnology</i> , 2013, 50, 387-398.	1.6	78
29	Atmospheric circulation patterns during late Pleistocene climate changes at Lake Malawi, Africa. <i>Earth and Planetary Science Letters</i> , 2011, 312, 318-326.	4.4	77
30	The development of iron crust lateritic systems in Burkina Faso, West Africa examined with in-situ-produced cosmogenic nuclides. <i>Earth and Planetary Science Letters</i> , 1994, 124, 19-33.	4.4	69
31	Late Glacial temperature and precipitation changes in the lowland Neotropics by tandem measurement of $\delta^{18}\text{O}$ in biogenic carbonate and gypsum hydration water. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 77, 352-368.	3.9	68
32	Increased ecological resource variability during a critical transition in hominin evolution. <i>Science Advances</i> , 2020, 6, .	10.3	68
33	Continental inputs of beryllium to the oceans. <i>Earth and Planetary Science Letters</i> , 1992, 114, 101-111.	4.4	52
34	Coherence between tropical East African and South American records of the Little Ice Age. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	48
35	Early Holocene climate recorded in geomorphological features in Western Tibet. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003, 199, 141-151.	2.3	46
36	Biogenic silica deposition in Lake Malawi, East Africa over the past 150,000years. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 303, 103-109.	2.3	46

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37	Application of in situ-produced cosmogenic ^{10}Be and ^{26}Al to the study of lateritic soil development in tropical forest: theory and examples from Cameroon and Gabon. <i>Chemical Geology</i> , 2000, 170, 95-111.	3.3	41
38	Lake Malawi's response to "megadrought" terminations: Sedimentary records of flooding, weathering and erosion. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 303, 120-125.	2.3	39
39	Abrupt deglaciation on the northeastern Tibetan Plateau: evidence from Lake Qinghai. <i>Journal of Paleolimnology</i> , 2014, 51, 223-240.	1.6	36
40	African laterite dynamics using in situ-produced ^{10}Be . <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 1501-1507.	3.9	34
41	Brazilian laterite dynamics using in situ-produced ^{10}Be . <i>Earth and Planetary Science Letters</i> , 1998, 163, 197-205.	4.4	33
42	A paleolimnological record of rainfall and drought from East Java, Indonesia during the last 1,400 years. <i>Journal of Paleolimnology</i> , 2012, 47, 125-139.	1.6	33
43	Cosmogenic ^{10}Be and ^3He accumulation in Pleistocene beach terraces in Death Valley, California, U.S.A.: Implications for cosmic-ray exposure dating of young surfaces in hot climates. <i>Chemical Geology</i> , 1995, 119, 191-207.	3.3	29
44	A climate threshold at the eastern edge of the Tibetan plateau. <i>Geophysical Research Letters</i> , 2014, 41, 5598-5604.	4.0	24
45	Consideration of the bioavailability of iron in the North American Great Lakes: Development of novel approaches toward understanding iron biogeochemistry. <i>Aquatic Ecosystem Health and Management</i> , 2004, 7, 475-490.	0.6	23
46	Trends in catchment processes and lake evolution during the late-glacial and early- to mid-Holocene inferred from high-resolution XRF data in the Yellowstone region. <i>Journal of Paleolimnology</i> , 2017, 58, 551-569.	1.6	23
47	Gold: a tracer of the dynamics of tropical laterites. <i>Geology</i> , 1997, 25, 81.	4.4	22
48	Lithostratigraphy, physical properties and organic matter variability in Lake Malawi Drillcore sediments over the past 145,000 years. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 303, 38-50.	2.3	22
49	Climatic control on magnetic mineralogy during the late MIS 6 - Early MIS 3 in Lake Chalco, central Mexico. <i>Quaternary Science Reviews</i> , 2020, 230, 106163.	3.0	22
50	Bioavailable iron in oligotrophic Lake Superior assessed using biological reporters. <i>Journal of Plankton Research</i> , 2005, 27, 1033-1044.	1.8	21
51	Use of in situ-produced ^{10}Be in carbonate-rich environments: A first attempt. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1473-1478.	3.9	21
52	Determination of cosmogenic production rates of ^{10}Be , ^3He and ^3H in water. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 172, 873-883.	1.4	19
53	Perforaci3n profunda en el lago de Chalco: reporte t3cnico. <i>Boletin De La Sociedad Geologica Mexicana</i> , 2017, 69, 299-311.	0.3	19
54	Quantitative evaluation of soil processes using in situ-produced cosmogenic nuclides. <i>Comptes Rendus - Geoscience</i> , 2003, 335, 1161-1171.	1.2	18

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55	Scientific drilling of Lake Chalco, Basin of Mexico (MexiDrill). <i>Scientific Drilling</i> , 0, 26, 1-15.	0.6	17
56	Beryllium isotope systematics of submarine hydrothermal systems. <i>Earth and Planetary Science Letters</i> , 1991, 105, 534-542.	4.4	16
57	Beryllium isotope geochemistry of hydrothermally altered sediments. <i>Earth and Planetary Science Letters</i> , 1992, 109, 47-56.	4.4	14
58	Examination of hydrothermal influences on oceanic beryllium using fluids, plume particles and sediments from the TAG hydrothermal field. <i>Earth and Planetary Science Letters</i> , 1994, 122, 143-157.	4.4	13
59	Sediment delivery and lake dynamics in a Mediterranean mountain watershed: Human-climate interactions during the last millennium (El Tobar Lake record, Iberian Range, Spain). <i>Science of the Total Environment</i> , 2015, 533, 506-519.	8.0	12
60	A Seasonal to Interannual View of Inorganic and Organic Carbon and pH in Western Lake Superior. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 405-419.	3.0	12
61	Erosion, Weathering, and Sedimentation. , 1998, , 647-678.		11
62	Sediment geochemistry and contributions to carbon and nutrient cycling in a deep meromictic tropical lake: Lake Malawi (East Africa). <i>Journal of Great Lakes Research</i> , 2018, 44, 1221-1234.	1.9	11
63	Timing of the Indian Summer Monsoon onset during the early Holocene: Evidence from a sediment core at Linggo Co, central Tibetan Plateau. <i>Holocene</i> , 2018, 28, 755-766.	1.7	11
64	Estimation of Biogenic Silica Concentrations Using Scanning XRF: Insights from Studies of Lake Malawi Sediments. <i>Developments in Paleoenvironmental Research</i> , 2015, , 267-277.	8.0	10
65	Diatom productivity in Northern Lake Malawi during the past 25,000 years: implications for the Position of the Intertropical Convergence Zone at Millennial and Shorter Time Scales. , 2004, , 93-116.		9
66	Sedimentary stratigraphy of Lake Chalco (Central Mexico) during its formative stages. <i>International Journal of Earth Sciences</i> , 2021, 110, 2519-2539.	1.8	9
67	Chemical Setting and Biogeochemical Reactions in Meromictic Lakes. <i>Ecological Studies</i> , 2017, , 35-59.	1.2	8
68	" Geoelectrical and Electromagnetic Methods Applied to Paleolimnological Studies: Two Examples from Desiccated Lakes in the Basin of Mexico". <i>Boletin De La Sociedad Geologica Mexicana</i> , 2017, 69, 279-298.	0.3	8
69	A molecular isotope record of climate variability and vegetation response in southwestern North America during mid-Pleistocene glacial/interglacial cycles. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 459, 338-347.	2.3	7
70	Plio-Pleistocene environmental variability in Africa and its implications for mammalian evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2107393119.	7.1	6
71	Westerlies effect in Holocene paleoclimate records from the central Qinghai-Tibet Plateau. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2022, 598, 111036.	2.3	5
72	Mid-Holocene drought and lake-level change at Elk Lake, Clearwater County, Minnesota: Evidence from CHIRP seismic-reflection data. <i>Holocene</i> , 2013, 23, 460-465.	1.7	2

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73	Subtropical hydroclimate during Termination V (\sim 1430-422 ka): Annual records of extreme precipitation, drought, and interannual variability from Santa Barbara Basin. <i>Quaternary Science Reviews</i> , 2018, 191, 73-88.	3.0	2
74	Didier L. Bourlès (1955–2021), the 5 MV cosmogenic rock star. <i>Quaternary Geochronology</i> , 2021, 65, 101186.	1.4	0
75	A multi-proxy lake-sediment record of middle through late Holocene hydroclimate change in southern British Columbia, Canada. <i>Journal of Paleolimnology</i> , 2022, 67, 163-182.	1.6	0