

Baerbel Hoenisch

List of Publications by Year in descending order

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62
papers

5,325
citations

109321

35
h-index

118850

62
g-index

67
all docs

67
docs citations

67
times ranked

4528
citing authors

#	ARTICLE	IF	CITATIONS
1	The Geological Record of Ocean Acidification. <i>Science</i> , 2012, 335, 1058-1063.	12.6	828
2	Atmospheric Carbon Dioxide Concentration Across the Mid-Pleistocene Transition. <i>Science</i> , 2009, 324, 1551-1554.	12.6	411
3	Effects of seawater carbonate ion concentration and temperature on shell U, Mg, and Sr in cultured planktonic foraminifera. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4347-4361.	3.9	366
4	Past climates inform our future. <i>Science</i> , 2020, 370, .	12.6	253
5	Making sense of palaeoclimate sensitivity. <i>Nature</i> , 2012, 491, 683-691.	27.8	247
6	Atmospheric CO ₂ decline during the Pliocene intensification of Northern Hemisphere glaciations. <i>Paleoceanography</i> , 2011, 26, .	3.0	218
7	Surface ocean pH response to variations in pCO ₂ through two full glacial cycles. <i>Earth and Planetary Science Letters</i> , 2005, 236, 305-314.	4.4	190
8	Assessing scleractinian corals as recorders for paleo-pH: Empirical calibration and vital effects. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3675-3685.	3.9	184
9	Rapid and sustained surface ocean acidification during the Paleocene–Eocene Thermal Maximum. <i>Paleoceanography</i> , 2014, 29, 357-369.	3.0	176
10	B/Ca in planktonic foraminifera as a proxy for surface seawater pH. <i>Paleoceanography</i> , 2007, 22, .	3.0	142
11	The influence of symbiont photosynthesis on the boron isotopic composition of foraminifera shells. <i>Marine Micropaleontology</i> , 2003, 49, 87-96.	1.2	122
12	The influence of salinity on Mg/Ca in planktic foraminifers – Evidence from cultures, core-top sediments and complementary ¹⁸ O. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 196-213.	3.9	122
13	Impact of the ocean carbonate chemistry on living foraminiferal shell weight: Comment on “Carbonate ion concentration in glacial-age deep waters of the Caribbean Sea” by W. S. Broecker and E. Clark. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-7.	2.5	120
14	Trace element proxies for surface ocean conditions: A synthesis of culture calibrations with planktic foraminifera. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 193, 197-221.	3.9	119
15	Timing and mechanism for intratest Mg/Ca variability in a living planktic foraminifer. <i>Earth and Planetary Science Letters</i> , 2015, 409, 32-42.	4.4	113
16	Interlaboratory comparison of boron isotope analyses of boric acid, seawater and marine CaCO ₃ by MC-ICPMS and NTIMS. <i>Chemical Geology</i> , 2013, 358, 1-14.	3.3	112
17	Ground-truthing the boron isotope-paleo-pH proxy in planktonic foraminifera shells: Partial dissolution and shell size effects. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	93
18	Planktic foraminifera as recorders of seawater Ba/Ca. <i>Marine Micropaleontology</i> , 2011, 79, 52-57.	1.2	87

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19	Controls on boron incorporation in cultured tests of the planktic foraminifer <i>Orbulina universa</i> . <i>Earth and Planetary Science Letters</i> , 2011, 309, 291-301.	4.4	81
20	Nanometer-Scale Chemistry of a Calcite Biomineralization Template: Implications for Skeletal Composition and Nucleation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12934-12939.	7.1	78
21	Vital effects in foraminifera do not compromise the use of $\delta^{11}\text{B}$ as a paleo-pH indicator: Evidence from modeling. <i>Paleoceanography</i> , 2003, 18, n/a-n/a.	3.0	71
22	Environmental controls on B/Ca in calcite tests of the tropical planktic foraminifer species <i>Globigerinoides ruber</i> and <i>Globigerinoides sacculifer</i> . <i>Earth and Planetary Science Letters</i> , 2012, 351-352, 270-280.	4.4	69
23	Deep Atlantic Ocean carbon storage and the rise of 100,000-year glacial cycles. <i>Nature Geoscience</i> , 2019, 12, 355-360.	12.9	61
24	Comment on "A critical evaluation of the boron isotope-pH proxy: The accuracy of ancient ocean pH estimates" by M. Pagani, D. Lemarchand, A. Spivack and J. Gaillardet. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1636-1641.	3.9	58
25	The planktic foraminiferal B/Ca proxy for seawater carbonate chemistry: A critical evaluation. <i>Earth and Planetary Science Letters</i> , 2012, 345-348, 203-211.	4.4	53
26	Modern and Pleistocene boron isotope composition of the benthic foraminifer <i>Cibicidoides wuellerstorfi</i> . <i>Earth and Planetary Science Letters</i> , 2008, 272, 309-318.	4.4	50
27	Changes in deep Pacific temperature during the mid-Pleistocene transition and Quaternary. <i>Quaternary Science Reviews</i> , 2010, 29, 170-181.	3.0	47
28	Boron, carbon, and oxygen isotopic composition of brachiopod shells: Intra-shell variability, controls, and potential as a paleo-pH recorder. <i>Chemical Geology</i> , 2013, 340, 32-39.	3.3	47
29	Cenozoic boron isotope variations in benthic foraminifers. <i>Geology</i> , 2013, 41, 591-594.	4.4	46
30	Southwest Pacific deep water carbonate chemistry linked to high southern latitude climate and atmospheric CO ₂ during the Last Glacial Termination. <i>Quaternary Science Reviews</i> , 2015, 122, 180-191.	3.0	44
31	Early Pleistocene Obliquity-Scale pCO ₂ Variability at ~1.5 Million Years Ago. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 1270-1291.	2.9	43
32	How well do non-traditional stable isotope results compare between different laboratories: results from the interlaboratory comparison of boron isotope measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 825.	3.0	42
33	A critical evaluation of calcium isotope ratios in tests of planktonic foraminifers. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 7241-7255.	3.9	41
34	Vital effects and beyond: a modelling perspective on developing palaeoceanographical proxy relationships in foraminifera. <i>Geological Society Special Publication</i> , 2008, 303, 45-58.	1.3	37
35	Micron-scale intrashell oxygen isotope variation in cultured planktic foraminifers. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 107, 267-278.	3.9	36
36	Single laboratory comparison of MC-ICP-MS and N-TIMS boron isotope analyses in marine carbonates. <i>Chemical Geology</i> , 2016, 447, 173-182.	3.3	33

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37	Calcification rate and shell chemistry response of the planktic foraminifer <i>Orbulina universa</i> to changes in microenvironment seawater carbonate chemistry. <i>Earth and Planetary Science Letters</i> , 2017, 464, 124-134.	4.4	33
38	Effects of seawater-pH and biomineralization on the boron isotopic composition of deep-sea bamboo corals. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 155, 86-106.	3.9	32
39	Boric acid and borate incorporation in inorganic calcite inferred from B/Ca, boron isotopes and surface kinetic modeling. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 229-247.	3.9	31
40	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
41	The Magnitude of Surface Ocean Acidification and Carbon Release During Eocene Thermal Maximum 2 (ETM ₂) and the Paleocene-Eocene Thermal Maximum (PETM). <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2019PA003699.	2.9	30
42	Calibration of the B/Ca proxy in the planktic foraminifer <i>Orbulina universa</i> to Paleocene seawater conditions. <i>Paleoceanography</i> , 2017, 32, 580-599.	3.0	29
43	Ventilation history of Nordic Seas overflows during the last (de)glacial period revealed by species-specific benthic foraminiferal ¹⁴ C dates. <i>Paleoceanography</i> , 2017, 32, 172-181.	3.0	28
44	Submicron sodium banding in cultured planktic foraminifera shells. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 253, 127-141.	3.9	27
45	The seawater carbon inventory at the Paleocene-Eocene Thermal Maximum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24088-24095.	7.1	26
46	Capturing the global signature of surface ocean acidification during the Palaeocene-Eocene Thermal Maximum. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170072.	3.4	24
47	Ba/Ca ratios in the non-spinose planktic foraminifer <i>Neogloboquadrina dutertrei</i> : Evidence for an organic aggregate microhabitat. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 236, 361-372.	3.9	23
48	Constraining multiple controls on planktic foraminifera Mg/Ca. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 273, 116-136.	3.9	21
49	Episodic release of CO ₂ from the high-latitude North Atlantic Ocean during the last 135 kyr. <i>Nature Communications</i> , 2017, 8, 14498.	12.8	15
50	Geochemical Proxies for Estimating Faunal Exposure to Ocean Acidification. <i>Oceanography</i> , 2015, 25, 62-73.	1.0	14
51	Growth rate determinations from radiocarbon in bamboo corals (genus <i>Keratois</i>). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 105, 26-40.	1.4	14
52	The influence of skeletal micro-structures on potential proxy records in a bamboo coral. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 248, 43-60.	3.9	14
53	Planktic foraminiferal Na/Ca: A potential proxy for seawater calcium concentration. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 305, 306-322.	3.9	14
54	Chapter Seventeen Boron Isotopes in Marine Carbonate Sediments and the pH of the Ocean. <i>Developments in Marine Geology</i> , 2007, , 717-734.	0.4	13

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55	Subtropical sea-surface warming and increased salinity during Eocene Thermal Maximum 2. <i>Geology</i> , 2018, 46, 187-190.	4.4	13
56	Evaluating the planktic foraminiferal B/Ca proxy for application to deep time paleoceanography. <i>Earth and Planetary Science Letters</i> , 2019, 528, 115824.	4.4	11
57	No ion is an island: Multiple ions influence boron incorporation into CaCO ₃ . <i>Geochimica Et Cosmochimica Acta</i> , 2022, 318, 510-530.	3.9	11
58	The Use of Mg/Ca as a Seawater Temperature Proxy. <i>The Paleontological Society Papers</i> , 2012, 18, 85-100.	0.6	6
59	Symbiont Photosynthesis and Its Effect on Boron Proxies in Planktic Foraminifera. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004022.	2.9	5
60	Monsoon- and ENSO-driven surface-water pCO ₂ variation in the tropical West Pacific since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2022, 289, 107621.	3.0	4
61	Investigation of planktonic foraminifera with ToF-SIMS. <i>Surface and Interface Analysis</i> , 2002, 34, 298-301.	1.8	3
62	Ocean acidification during the Cenozoic. <i>Applied Geochemistry</i> , 2011, 26, S288.	3.0	1