

Jan Fietzke

List of Publications by Year in descending order

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75
papers

3,861
citations

87888

38
h-index

123424

61
g-index

82
all docs

82
docs citations

82
times ranked

4723
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcifying invertebrates succeed in a naturally CO ₂ -rich coastal habitat but are threatened by high levels of future acidification. <i>Biogeosciences</i> , 2010, 7, 3879-3891.	3.3	301
2	Rapid sea-level rise and reef back-stepping at the close of the last interglacial highstand. <i>Nature</i> , 2009, 458, 881-884.	27.8	192
3	Trapping efficiencies of sediment traps from the deep Eastern North Atlantic. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 2383-2408.	1.4	157
4	Constraining the marine strontium budget with natural strontium isotope fractionations ($^{87}\text{Sr}/^{86}\text{Sr}$), <i>Tectonophysics</i> , 2010, 74, 4097-4109.	3.9	154
5	Determination of temperature-dependent stable strontium isotope ($^{88}\text{Sr}/^{86}\text{Sr}$) fractionation via bracketing standard MC-ICP-MS. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	152
6	Ocean acidification weakens the structural integrity of coralline algae. <i>Global Change Biology</i> , 2012, 18, 2804-2812.	9.5	132
7	Determination of radiogenic and stable strontium isotope ratios ($^{87}\text{Sr}/^{86}\text{Sr}$; $^{88}\text{Sr}/^{86}\text{Sr}$) by thermal ionization mass spectrometry applying an $^{87}\text{Sr}/^{84}\text{Sr}$ double spike. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 1267.	3.0	120
8	An alternative data acquisition and evaluation strategy for improved isotope ratio precision using LA-MC-ICP-MS applied to stable and radiogenic strontium isotopes in carbonates. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 955.	3.0	112
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	Reorganization of the North Atlantic Oscillation during early Holocene deglaciation. <i>Nature Geoscience</i> , 2016, 9, 602-605.	12.9	103
11	The Phanerozoic $^{88}\text{Sr}/^{86}\text{Sr}$ record of seawater: New constraints on past changes in oceanic carbonate fluxes. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 128, 249-265.	3.9	101
12	Stable strontium isotopes ($^{88}\text{Sr}/^{86}\text{Sr}$) in cold-water corals – A new proxy for reconstruction of intermediate ocean water temperatures. <i>Earth and Planetary Science Letters</i> , 2008, 269, 570-575.	4.4	98
13	Determination of uranium isotope ratios by multi-static MC-ICP-MS: method and implementation for precise U- and Th-series isotope measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 395.	3.0	88
14	Calcium isotope ($^{44}\text{Ca}/^{40}\text{Ca}$) fractionation along hydrothermal pathways, Logatchev field (Mid-Atlantic) <i>Tectonophysics</i> , 2010, 74, 4097-4109.	3.9	85
15	Moroccan speleothem and tree ring records suggest a variable positive state of the North Atlantic Oscillation during the Medieval Warm Period. <i>Earth and Planetary Science Letters</i> , 2013, 375, 291-302.	4.4	82
16	Proposal for International Agreement on Ca Notation Resulting from Discussions at Workshops on Stable Isotope Measurements Held in Davos (Goldschmidt 2002) and Nice (EGS-AGU-EUG 2003). <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 149-151.	1.9	81
17	Megatsunami deposits on Kohala volcano, Hawaii, from flank collapse of Mauna Loa. <i>Geology</i> , 2004, 32, 741.	4.4	80
18	Climate and cave control on Pleistocene/Holocene calcite-to-aragonite transitions in speleothems from Morocco: Elemental and isotopic evidence. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 92, 23-47.	3.9	80

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19	Glacial cold-water coral growth in the Gulf of Cádiz: Implications of increased palaeo-productivity. <i>Earth and Planetary Science Letters</i> , 2010, 298, 405-416.	4.4	76
20	Preboreal onset of cold-water coral growth beyond the Arctic Circle revealed by coupled radiocarbon and U-series dating and neodymium isotopes. <i>Quaternary Science Reviews</i> , 2012, 34, 24-43.	3.0	71
21	Experimental evaluation of elemental behavior during LA-ICP-MS: influences of plasma conditions and limits of plasma robustness. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 234-244.	3.0	70
22	Phenotypic plasticity of coralline algae in a High CO_2 world. <i>Ecology and Evolution</i> , 2013, 3, 3436-3446.	1.9	64
23	Radiogenic isotope record of Arctic Ocean circulation and weathering inputs of the past 15 million years. <i>Paleoceanography</i> , 2008, 23, .	3.0	60
24	Boron isotope ratio determination in carbonates via LA-MC-ICP-MS using soda-lime glass standards as reference material. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1953.	3.0	60
25	Precipitation and growth of barite within hydrothermal vent deposits from the Endeavour Segment, Juan de Fuca Ridge. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 173, 64-85.	3.9	55
26	The molybdenum isotopic compositions of I-, S- and A-type granitic suites. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 205, 168-186.	3.9	55
27	Coralline alga reveals first marine record of subarctic North Pacific climate change. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	52
28	Century-scale trends and seasonality in pH and temperature for shallow zones of the Bering Sea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2960-2965.	7.1	52
29	Direct measurement of $^{44}\text{Ca}/^{40}\text{Ca}$ ratios by MC-ICP-MS using the cool plasma technique. <i>Chemical Geology</i> , 2004, 206, 11-20.	3.3	51
30	Radionuclide fluxes in the Arabian Sea: the role of particle composition. <i>Earth and Planetary Science Letters</i> , 2005, 230, 319-337.	4.4	51
31	Comment on ^{230}Th - ^{232}Th dating of carbonate crusts reveals Neandertal origin of Iberian cave art. <i>Science</i> , 2018, 361, .	12.6	50
32	Advection and scavenging: Effects on ^{230}Th and ^{231}Pa distribution off Southwest Africa. <i>Earth and Planetary Science Letters</i> , 2008, 271, 159-169.	4.4	48
33	Conditions of <i>Mytilus edulis</i> extracellular body fluids and shell composition in a pH-treatment experiment: Acid-base status, trace elements and ^{11}B . <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	48
34	Impact of high CO_2 on the geochemistry of the coralline algae <i>Lithothamnion glaciale</i> . <i>Scientific Reports</i> , 2016, 6, 20572.	3.3	46
35	Internal pH regulation facilitates in situ long-term acclimation of massive corals to end-of-century carbon dioxide conditions. <i>Scientific Reports</i> , 2016, 6, 30688.	3.3	44
36	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

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37	Keystone predators govern the pathway and pace of climate impacts in a subarctic marine ecosystem. <i>Science</i> , 2020, 369, 1351-1354.	12.6	43
38	A simplified procedure for the determination of stable chlorine isotope ratios ($\delta^{37}\text{Cl}$) using LA-MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 769.	3.0	40
39	Rhythmic growth of Pacific ferromanganese nodules and their Milankovitch climatic origin. <i>Earth and Planetary Science Letters</i> , 2003, 211, 143-157.	4.4	39
40	Elevated marine deposits in Bermuda record a late Quaternary megatsunami. <i>Sedimentary Geology</i> , 2007, 200, 155-165.	2.1	38
41	Ice volume and climate changes from a 6000 year sea-level record in French Polynesia. <i>Nature Communications</i> , 2018, 9, 285.	12.8	38
42	$^{88}\text{Sr}/^{86}\text{Sr}$ fractionation in inorganic aragonite and in corals. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 178, 268-280.	3.9	32
43	Uplift of Oahu, Hawaii, during the past 500 k.y. as recorded by elevated reef deposits. <i>Geology</i> , 2010, 38, 27-30.	4.4	31
44	Record of a tectonically-controlled regression captured by changes in carbonate skeletal associations on a structured island shelf (mid-Pleistocene, Rhodes, Greece). <i>Sedimentary Geology</i> , 2013, 283, 15-33.	2.1	28
45	Modification of Ca isotope and trace metal composition of the major matrices involved in shell formation of <i>Mytilus edulis</i> . <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	24
46	Constraining mid to late Holocene relative sea level change in the southern equatorial Pacific Ocean relative to the Society Islands, French Polynesia. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2601-2615.	2.5	21
47	Deglacial upslope shift of NE Atlantic intermediate waters controlled slope erosion and cold-water coral mound formation (Porcupine Seabight, Irish margin). <i>Quaternary Science Reviews</i> , 2020, 237, 106310.	3.0	21
48	Using B isotopes and B/Ca in corals from low saturation springs to constrain calcification mechanisms. <i>Nature Communications</i> , 2019, 10, 3580.	12.8	20
49	Tectonic motion in oblique subduction forearcs: insights from the revisited Middle and Upper Pleistocene deposits of Rhodes, Greece. <i>Journal of the Geological Society</i> , 2019, 176, 78-96.	2.1	19
50	Boron isotope composition of the cold-water coral <i>Lophelia pertusa</i> along the Norwegian margin: Zooming into a potential pH-proxy by combining bulk and high-resolution approaches. <i>Chemical Geology</i> , 2019, 513, 143-152.	3.3	17
51	Establishing temperate crustose early Holocene coralline algae as archives for palaeoenvironmental reconstructions of the shallow water habitats of the Mediterranean Sea. <i>Palaeontology</i> , 2020, 63, 155-170.	2.2	17
52	Precise determination of $^{88}\text{Sr}/^{86}\text{Sr}$ in natural samples by double-spike MC-ICP-MS and its TIMS verification. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 940.	3.0	16
53	North Pacific twentieth century decadal-scale variability is unique for the past 342 years. <i>Geophysical Research Letters</i> , 2017, 44, 3761-3769.	4.0	16
54	Protactinium determination in manganese crust VA13/2 by thermal ionization mass spectrometry (TIMS). <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 149, 353-360.	1.4	14

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55	Migration behaviour of twaite shad <i>Alosa fallax</i> assessed by otolith Sr:Ca and Ba:Ca profiles. <i>Journal of Fish Biology</i> , 2013, 82, 1871-1887.	1.6	14
56	La Désirade island (Guadeloupe, French West Indies): a key target for deciphering the role of reactivated tectonic structures in Lesser Antilles arc building. <i>Bulletin - Societe Geologique De France</i> , 2013, 184, 21-34.	2.2	14
57	The Role of LA-MC-ICP-MS in Palaeoclimate Research. <i>Elements</i> , 2016, 12, 329-334.	0.5	14
58	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
59	Reef response to sea-level and environmental changes in the Central South Pacific over the past 6000 years. <i>Global and Planetary Change</i> , 2020, 195, 103357.	3.5	11
60	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
61	Linking Internal Carbonate Chemistry Regulation and Calcification in Corals Growing at a Mediterranean CO ₂ Vent. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	11
62	²³⁰ Th- ²³⁸ U disequilibrium in East Scotia backarc basalts: Implications for slab contributions. <i>Geology</i> , 2003, 31, 693.	4.4	10
63	Disentangling the biological and environmental control of <i>M. edulis</i> shell chemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	9
64	Reply to "Mega-highstand or megatsunami? Discussion of McMurtry et al. "Elevated marine deposits in Bermuda record a late Quaternary megatsunami". <i>Sed. Geol.</i> 200 (2007) 155-165" by Paul J. Hearty and Storrs L. Olson. <i>Sedimentary Geology</i> , 2008, 203, 313-319.	2.1	8
65	Precise measurement of low (<100 ppm) chlorine concentrations in submarine basaltic glass by electron microprobe. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1966.	3.0	8
66	The karst of the Vaucluse, an exceptional record for the Last Glacial Maximum (LGM) and the Late-glacial period palaeoenvironment of southeastern France. <i>Quaternary International</i> , 2014, 339-340, 41-61.	1.5	8
67	Decreasing uplift rates and Pleistocene marine terraces settlement in the central lesser Antilles fore-arc (La Désirade Island, 16°N). <i>Quaternary International</i> , 2019, 508, 43-59.	1.5	8
68	LA-MC-ICP-MS study of boron isotopes in individual planktonic foraminifera: A novel approach to obtain seasonal variability patterns. <i>Chemical Geology</i> , 2020, 531, 119351.	3.3	8
69	Distinct fine-scale variations in calcification control revealed by high-resolution 2D boron laser images in the cold-water coral <i>Lophelia pertusa</i> . <i>Science Advances</i> , 2022, 8, eabj4172.	10.3	8
70	The role of pH up-regulation in response to nutrient-enriched, low-pH groundwater discharge. <i>Marine Chemistry</i> , 2022, 243, 104134.	2.3	6
71	Incorporation of Na and S in bamboo coral skeletons. <i>Chemical Geology</i> , 2022, 597, 120795.	3.3	3
72	Correction to "Disentangling the biological and environmental control of <i>M. edulis</i> shell chemistry". <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	2

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73	Early Diagenetic Imprint on Temperature Proxies in Holocene Corals: A Case Study From French Polynesia. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	2
74	Uplift of Oahu, Hawaii, during the past 500 k.y. as recorded by elevated reef deposits: REPLY. <i>Geology</i> , 2011, 39, e236-e237.	4.4	1
75	10th European workshop on laser ablation. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2149-2151.	3.7	0