

Nikolaus Gussone

List of Publications by Year in descending order

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44
papers

2,558
citations

257450

24
h-index

233421

45
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46
all docs

46
docs citations

46
times ranked

2213
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	Volcanic arcs fed by rapid pulsed fluid flow through subducting slabs. <i>Nature Geoscience</i> , 2012, 5, 489-492.	12.9	249
3	Calcium isotope fractionation in calcite and aragonite. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4485-4494.	3.9	245
4	Model for kinetic effects on calcium isotope fractionation ($\delta^{44}\text{Ca}$) in inorganic aragonite and cultured planktonic foraminifera. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1375-1382.	3.9	210
5	Calcium Isotopic Composition of Various Reference Materials and Seawater. <i>Geostandards and Geoanalytical Research</i> , 2003, 27, 13-19.	3.1	144
6	Calcium isotope fractionation in modern scleractinian corals. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4452-4462.	3.9	125
7	Calcium isotope ($\delta^{44}/40\text{Ca}$) variations of Neogene planktonic foraminifera. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	94
8	Cellular calcium pathways and isotope fractionation in <i>Emiliana huxleyi</i> . <i>Geology</i> , 2006, 34, 625.	4.4	91
9	Coccolith strontium to calcium ratios in <i>Emiliana huxleyi</i> : The dependence on seawater strontium and calcium concentrations. <i>Limnology and Oceanography</i> , 2006, 51, 310-320.	3.1	87
10	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
11	Clathrites: Archives of near-seafloor pore-fluid evolution ($\delta^{44}/40\text{Ca}$, $\delta^{13}\text{C}$, $\delta^{18}\text{O}$) in gas hydrate environments. <i>Geology</i> , 2005, 33, 213.	4.4	69
12	Polycrystalline apatite synthesized by hydrothermal replacement of calcium carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3486-3500.	3.9	65
13	Controls on calcium isotope fractionation in sedimentary porewaters. <i>Earth and Planetary Science Letters</i> , 2009, 279, 373-382.	4.4	62
14	Calcium isotopes in fossil bones and teeth – Diagenetic versus biogenic origin. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3419-3433.	3.9	60
15	Calcium isotope fractionation during coccolith formation in <i>Emiliana huxleyi</i> : Independence of growth and calcification rate. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	57
16	Calcium isotope fractionation in ikaite and vaterite. <i>Chemical Geology</i> , 2011, 285, 194-202.	3.3	54
17	The calcium isotope systematics of Mars. <i>Earth and Planetary Science Letters</i> , 2015, 430, 86-94.	4.4	47
18	Calcium isotope fractionation in coccoliths of cultured <i>Calcidiscus leptoporus</i> , <i>Helicosphaera carteri</i> , <i>Syracosphaera pulchra</i> and <i>Umbilicosphaera foliosa</i> . <i>Earth and Planetary Science Letters</i> , 2007, 260, 505-515.	4.4	46

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19	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
20	Controlling factors of Ca isotope fractionation in scleractinian corals evaluated by temperature, pH and light controlled culture experiments. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 167, 80-92.	3.9	36
21	Mg/Ca, Sr/Ca and Ca isotope ratios in benthonic foraminifers related to test structure, mineralogy and environmental controls. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 173, 142-159.	3.9	32
22	Minor element and Ca isotope composition of calcareous dinoflagellate cysts of cultured <i>Thoracosphaera heimii</i> . <i>Earth and Planetary Science Letters</i> , 2010, 289, 180-188.	4.4	29
23	Calcium isotopes in deep time: Potential and limitations. <i>Chemical Geology</i> , 2020, 544, 119601.	3.3	28
24	Sheared Peridotite and Megacryst Formation Beneath the Kaapvaal Craton: a Snapshot of Tectonomagmatic Processes across the Lithosphere–Asthenosphere Transition. <i>Journal of Petrology</i> , 2021, 62, .	2.8	27
25	Calcium isotope ratios in calcitic tests of benthic foraminifers. <i>Earth and Planetary Science Letters</i> , 2010, 290, 108-117.	4.4	24
26	Calcium isotope fractionation and its controlling factors over authigenic carbonates in the cold seeps of the northern South China Sea. <i>Science Bulletin</i> , 2012, 57, 1325-1332.	1.7	24
27	Calcium Stable Isotope Geochemistry. <i>Advances in Isotope Geochemistry</i> , 2016, , .	1.4	24
28	^{226}Ra excess /Ba growth rates and U-Th-Ra-Ba systematic of Baltic Mn/Fe crusts. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 73-83.	3.9	21
29	Factors influencing methane-derived authigenic carbonate formation at cold seep from southwestern Dongsha area in the northern South China Sea. <i>Environmental Earth Sciences</i> , 2014, 71, 2087-2094.	2.7	20
30	Constraints on Archean crust recycling and the origin of mantle redox variability from the $^{44}\text{Ca}/^{40}\text{Ca}$ and $^{180}\text{m}\text{O}_2$ signatures of cratonic eclogites. <i>Earth and Planetary Science Letters</i> , 2021, 556, 116720.	4.4	19
31	A simple role of coral-algal symbiosis in coral calcification based on multiple geochemical tracers. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 235, 76-88.	3.9	17
32	Origin of Rodingite Forming Fluids Constrained by Calcium and Strontium Isotope Ratios in the Leka Ophiolite Complex. <i>Chemical Geology</i> , 2020, 542, 119598.	3.3	14
33	Global Ca Cycles: Coupling of Continental and Oceanic Processes. <i>Advances in Isotope Geochemistry</i> , 2016, , 173-222.	1.4	10
34	Calcium Isotope Fractionation During Mineral Precipitation from Aqueous Solution. <i>Advances in Isotope Geochemistry</i> , 2016, , 75-110.	1.4	8
35	Cretaceous calcareous dinoflagellate cysts as recorder of $^{44}\text{Ca}/^{40}\text{Ca}$ seawater and paleo-temperature using Sr/Ca thermometry. <i>Chemical Geology</i> , 2018, 488, 138-148.	3.3	8
36	Combined mass-dependent and nucleosynthetic isotope variations in refractory inclusions and their mineral separates to determine their original Fe isotope compositions. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 263, 215-234.	3.9	8

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37	Calcium- ⁴⁵ Ca ammonium exchange experiments on clay minerals using a ⁴⁵ Ca tracer technique in marine pore water. <i>Isotopes in Environmental and Health Studies</i> , 2014, 50, 1-17.	1.0	6
38	Biominerals and Biomaterial. <i>Advances in Isotope Geochemistry</i> , 2016, , 111-144.	1.4	6
39	Incorporation of Ca isotopes in carapaxes of marine ostracods. <i>Chemical Geology</i> , 2019, 510, 130-139.	3.3	6
40	Calcium isotope fractionation upon experimental apatite formation. <i>Chemical Geology</i> , 2020, 551, 119737.	3.3	5
41	High Temperature Geochemistry and Cosmochemistry. <i>Advances in Isotope Geochemistry</i> , 2016, , 223-245.	1.4	3
42	Salinity effects on cultured <i>Neogloboquadrina pachyderma</i> (sinistral) from high latitudes: new paleoenvironmental insights. <i>Geo-Marine Letters</i> , 2021, 41, 1.	1.1	3
43	The effect of extraction techniques on calcium concentrations and isotope ratios of marine pore water. <i>Isotopes in Environmental and Health Studies</i> , 2020, 56, 51-68.	1.0	2
44	Evolution of fluid flow and carbonate recrystallization rates in deep-sea sediments of the Equatorial Pacific. <i>Geo-Marine Letters</i> , 2022, 42, 1.	1.1	1