

Christopher Reinhard

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

8,648
citations

81743

39
h-index

76769

74
g-index

83
all docs

83
docs citations

83
times ranked

5053
citing authors

#	ARTICLE	IF	CITATIONS
1	The History of Ocean Oxygenation. <i>Annual Review of Marine Science</i> , 2022, 14, 331-353.	5.1	22
2	Atmospheric Oxygen Abundance, Marine Nutrient Availability, and Organic Carbon Fluxes to the Seafloor. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	4
3	Strong evidence for a weakly oxygenated ocean-atmosphere system during the Proterozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	15
4	The future lifespan of Earth's oxygenated atmosphere. <i>Nature Geoscience</i> , 2021, 14, 138-142.	5.4	19
5	Microbial helpers allow cyanobacteria to thrive in ferruginous waters. <i>Geobiology</i> , 2021, 19, 510-520.	1.1	3
6	Oxygen suppression of macroscopic multicellularity. <i>Nature Communications</i> , 2021, 12, 2838.	5.8	30
7	Iron and sulfur cycling in the cGENIE.muffin Earth system model (v0.9.21). <i>Geoscientific Model Development</i> , 2021, 14, 2713-2745.	1.3	12
8	Chromium isotope systematics and the diagenesis of marine carbonates. <i>Earth and Planetary Science Letters</i> , 2021, 562, 116824.	1.8	24
9	Behavior of the Mo, Tl, and U isotope systems during differentiation in the Kilauea Iki lava lake. <i>Chemical Geology</i> , 2021, 574, 120239.	1.4	19
10	Oxygenation, Life, and the Planetary System during Earth's Middle History: An Overview. <i>Astrobiology</i> , 2021, 21, 906-923.	1.5	85
11	A largely invariant marine dissolved organic carbon reservoir across Earth's history. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	22
12	New constraints on mid-Proterozoic ocean redox from stable thallium isotope systematics of black shales. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 315, 185-206.	1.6	6
13	Nutrient Supply to Planetary Biospheres From Anoxic Weathering of Mafic Oceanic Crust. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094442.	1.5	16
14	Reconciling evidence of oxidative weathering and atmospheric anoxia on Archean Earth. <i>Science Advances</i> , 2021, 7, eabj0108.	4.7	21
15	The impact of primary processes and secondary alteration on the stable isotope composition of ocean island basalts. <i>Chemical Geology</i> , 2021, 581, 120416.	1.4	12
16	Evolution of the structure and impact of Earth's biosphere. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 123-139.	12.2	37
17	Triple oxygen isotope constraints on atmospheric O ₂ and biological productivity during the mid-Proterozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
18	An expanded shale ⁹⁸ Mo record permits recurrent shallow marine oxygenation during the Neoproterozoic. <i>Chemical Geology</i> , 2020, 532, 119391.	1.4	15

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19	The role of environmental factors in the long-term evolution of the marine biological pump. <i>Nature Geoscience</i> , 2020, 13, 812-816.	5.4	38
20	Palaeoproterozoic oxygenated oceans following the Lomagundi-Jatuli Event. <i>Nature Geoscience</i> , 2020, 13, 302-306.	5.4	47
21	Large Mass-Independent Oxygen Isotope Fractionations in Mid-Proterozoic Sediments: Evidence for a Low-Oxygen Atmosphere?. <i>Astrobiology</i> , 2020, 20, 628-636.	1.5	18
22	On the co-evolution of surface oxygen levels and animals. <i>Geobiology</i> , 2020, 18, 260-281.	1.1	82
23	Novel insights into the taxonomic diversity and molecular mechanisms of bacterial Mn(III) reduction. <i>Environmental Microbiology Reports</i> , 2020, 12, 583-593.	1.0	4
24	Biogeochemical Controls on the Redox Evolution of Earth's Oceans and Atmosphere. <i>Elements</i> , 2020, 16, 191-196.	0.5	19
25	The impact of marine nutrient abundance on early eukaryotic ecosystems. <i>Geobiology</i> , 2020, 18, 139-151.	1.1	39
26	Bistability in the redox chemistry of sediments and oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33043-33050.	3.3	18
27	Oceanic and atmospheric methane cycling in the cGENIE Earth system model "release v0.9.14. <i>Geoscientific Model Development</i> , 2020, 13, 5687-5706.	1.3	12
28	Anoxygenic photosynthesis and the delayed oxygenation of Earth's atmosphere. <i>Nature Communications</i> , 2019, 10, 3026.	5.8	47
29	A paleosol record of the evolution of Cr redox cycling and evidence for an increase in atmospheric oxygen during the Neoproterozoic. <i>Geobiology</i> , 2019, 17, 579-593.	1.1	27
30	Experimental determination of pyrite and molybdenite oxidation kinetics at nanomolar oxygen concentrations. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 249, 160-172.	1.6	28
31	A Limited Habitable Zone for Complex Life. <i>Astrophysical Journal</i> , 2019, 878, 19.	1.6	30
32	Photoferrotrophy, deposition of banded iron formations, and methane production in Archean oceans. <i>Science Advances</i> , 2019, 5, eaav2869.	4.7	43
33	Mechanistic Links Between the Sedimentary Redox Cycle and Marine Acid-Base Chemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5968-5978.	1.0	3
34	A sluggish mid-Proterozoic biosphere and its effect on Earth's redox balance. <i>Geobiology</i> , 2019, 17, 3-11.	1.1	52
35	Earth: Atmospheric Evolution of a Habitable Planet. , 2018, , 1-37.		4
36	A model for the oceanic mass balance of rhenium and implications for the extent of Proterozoic ocean anoxia. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 227, 75-95.	1.6	66

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37	Exoplanet Biosignatures: A Review of Remotely Detectable Signs of Life. <i>Astrobiology</i> , 2018, 18, 663-708.	1.5	328
38	Effects of primitive photosynthesis on Earth's early climate system. <i>Nature Geoscience</i> , 2018, 11, 55-59.	5.4	45
39	Earth: Atmospheric Evolution of a Habitable Planet. , 2018, , 2817-2853.		6
40	Exoplanet Biosignatures: Understanding Oxygen as a Biosignature in the Context of Its Environment. <i>Astrobiology</i> , 2018, 18, 630-662.	1.5	194
41	Making Sense of Massive Carbon Isotope Excursions With an Inverse Carbon Cycle Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2485-2496.	1.3	26
42	Constraints on Paleoproterozoic atmospheric oxygen levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8104-8109.	3.3	83
43	Atmospheric Seasonality as an Exoplanet Biosignature. <i>Astrophysical Journal Letters</i> , 2018, 858, L14.	3.0	40
44	A case for low atmospheric oxygen levels during Earth's middle history. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 149-159.	1.1	64
45	Nitrous oxide from chemodenitrification: A possible missing link in the Proterozoic greenhouse and the evolution of aerobic respiration. <i>Geobiology</i> , 2018, 16, 597-609.	1.1	39
46	Tracking the rise of eukaryotes to ecological dominance with zinc isotopes. <i>Geobiology</i> , 2018, 16, 341-352.	1.1	65
47	Chromium Isotopes. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 1-6.	0.1	0
48	Chromium Isotopes. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 256-262.	0.1	0
49	Chromium isotope systematics in the Connecticut River. <i>Chemical Geology</i> , 2017, 456, 98-111.	1.4	69
50	False Negatives for Remote Life Detection on Ocean-Bearing Planets: Lessons from the Early Earth. <i>Astrobiology</i> , 2017, 17, 287-297.	1.5	97
51	Evolution of the global phosphorus cycle. <i>Nature</i> , 2017, 541, 386-389.	13.7	397
52	Redox-independent chromium isotope fractionation induced by ligand-promoted dissolution. <i>Nature Communications</i> , 2017, 8, 1590.	5.8	75
53	Cyanobacterial Diazotrophy and Earth's Delayed Oxygenation. <i>Frontiers in Microbiology</i> , 2016, 7, 1526.	1.5	14
54	Sedimentary chromium isotopic compositions across the Cretaceous OAE2 at Demerara Rise Site 1258. <i>Chemical Geology</i> , 2016, 429, 85-92.	1.4	44

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55	No evidence for high atmospheric oxygen levels 1,400 million years ago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2550-1.	3.3	44
56	The chromium isotope composition of reducing and oxic marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 184, 1-19.	1.6	83
57	Limited role for methane in the mid-Proterozoic greenhouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11447-11452.	3.3	69
58	Earth's oxygen cycle and the evolution of animal life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8933-8938.	3.3	205
59	Trace elements at the intersection of marine biological and geochemical evolution. <i>Earth-Science Reviews</i> , 2016, 163, 323-348.	4.0	135
60	A shale-hosted Cr isotope record of low atmospheric oxygen during the Proterozoic. <i>Geology</i> , 2016, 44, 555-558.	2.0	228
61	Chromium isotope fractionation during subduction-related metamorphism, black shale weathering, and hydrothermal alteration. <i>Chemical Geology</i> , 2016, 423, 19-33.	1.4	77
62	A Cenozoic seawater redox record derived from $^{238}\text{U}/^{235}\text{U}$ in ferromanganese crusts. <i>Numerische Mathematik</i> , 2016, 316, 64-83.	0.7	70
63	Late Proterozoic Transitions in Climate, Oxygen, and Tectonics, and the Rise of Complex Life. <i>The Paleontological Society Papers</i> , 2015, 21, 47-82.	0.8	20
64	Marine redox conditions in the middle Proterozoic ocean and isotopic constraints on authigenic carbonate formation: Insights from the Chuanlinggou Formation, Yanshan Basin, North China. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 150, 90-105.	1.6	71
65	Transient episodes of mild environmental oxygenation and oxidative continental weathering during the late Archean. <i>Science Advances</i> , 2015, 1, e1500777.	4.7	61
66	The rise of oxygen in Earth's early ocean and atmosphere. <i>Nature</i> , 2014, 506, 307-315.	13.7	1,966
67	Evidence for oxygenic photosynthesis half a billion years before the Great Oxidation Event. <i>Nature Geoscience</i> , 2014, 7, 283-286.	5.4	444
68	Low Mid-Proterozoic atmospheric oxygen levels and the delayed rise of animals. <i>Science</i> , 2014, 346, 635-638.	6.0	594
69	The isotopic composition of authigenic chromium in anoxic marine sediments: A case study from the Cariaco Basin. <i>Earth and Planetary Science Letters</i> , 2014, 407, 9-18.	1.8	99
70	Coupled molybdenum, iron and uranium stable isotopes as oceanic paleoredox proxies during the Paleoproterozoic Shunga Event. <i>Chemical Geology</i> , 2013, 362, 193-210.	1.4	129
71	Oxidative sulfide dissolution on the early Earth. <i>Chemical Geology</i> , 2013, 362, 44-55.	1.4	53
72	Proterozoic ocean redox and biogeochemical stasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5357-5362.	3.3	418

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73	Long-term sedimentary recycling of rare sulphur isotope anomalies. Nature, 2013, 497, 100-103.	13.7	96
74	Widespread iron-rich conditions in the mid-Proterozoic ocean. Nature, 2011, 477, 448-451.	13.7	385
75	The evolution of the marine phosphate reservoir. Nature, 2010, 467, 1088-1090.	13.7	361
76	Pervasive oxygenation along late Archaean ocean margins. Nature Geoscience, 2010, 3, 647-652.	5.4	233
77	A Late Archean Sulfidic Sea Stimulated by Early Oxidative Weathering of the Continents. Science, 2009, 326, 713-716.	6.0	241