Christopher German

List of Publications by Year
in descending order

80 papers	7,460 citations	81900 39 h-index	76900 74 g-index
84 all docs	84 docs citations	84 times ranked	6542 citing authors

#	Article	IF	Citations
1	Science Goals and Mission Architecture of the Europa Lander Mission Concept. Planetary Science Journal, 2022, 3, 22.	3.6	42
2	Science Objectives for Flagship-Class Mission Concepts for the Search for Evidence of Life at Enceladus. Astrobiology, 2022, 22, 685-712.	3.0	21
3	Hydrothermal Exploration of the Southern Chile Rise: Sediment‐Hosted Venting at the Chile Triple Junction. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	0
4	A decade to study deep-sea life. Nature Ecology and Evolution, 2021, 5, 265-267.	7.8	43
5	A multi-modal approach to measuring particulate iron speciation in buoyant hydrothermal plumes. Chemical Geology, 2021, 560, 120018.	3.3	4
6	Forward geochemical modeling as a guiding tool during exploration of Sea Cliff hydrothermal field, Gorda Ridge. Planetary and Space Science, 2021, 197, 105151.	1.7	5
7	Global Ocean Sediment Composition and Burial Flux in the Deep Sea. Global Biogeochemical Cycles, 2021, 35, e2020GB006769.	4.9	46
8	Protistan grazing impacts microbial communities and carbon cycling at deep-sea hydrothermal vents. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
9	The Science Case for a Return to Enceladus. Planetary Science Journal, 2021, 2, 132.	3.6	40
10	Abundance of low-temperature axial venting at the equatorial East Pacific Rise. Deep-Sea Research Part I: Oceanographic Research Papers, 2021, 167, 103426.	1.4	5
11	Hydrothermal trace metal release and microbial metabolism in the northeastern Lau Basin of the South Pacific Ocean. Biogeosciences, 2021, 18, 5397-5422.	3.3	11
12	Dynamic Biogeochemistry of the Particulate Sulfur Pool in a Buoyant Deep-Sea Hydrothermal Plume. ACS Earth and Space Chemistry, 2020, 4, 168-182.	2.7	9
13	Distribution of iron in the Western Indian Ocean and the Eastern tropical South pacific: An inter-basin comparison. Chemical Geology, 2020, 532, 119334.	3.3	17
14	Diagnostic Morphology and Solid-State Chemical Speciation of Hydrothermally Derived Particulate Fe in a Long-Range Dispersing Plume. ACS Earth and Space Chemistry, 2020, 4, 1831-1842.	2.7	7
15	Demonstration of Autonomous Nested Search for Local Maxima Using an Unmanned Underwater Vehicle. , 2020, , .		2
16	Abiotic redox reactions in hydrothermal mixing zones: Decreased energy availability for the subsurface biosphere. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20453-20461.	7.1	22
17	Scientific Challenges and Present Capabilities in Underwater Robotic Vehicle Design and Navigation for Oceanographic Exploration Under-Ice. Remote Sensing, 2020, 12, 2588.	4.0	30
18	Hydrothermal plume detection dataset from Chinese cruises to the equatorial East Pacific Rise. Data in Brief, 2020, 33, 106540.	1.0	1

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19	The NASA Roadmap to Ocean Worlds. Astrobiology, 2019, 19, 1-27.	3.0	209
20	Geochemistry of fluids from Earthâ€™s deepest ridge-crest hot-springs: Piccard hydrothermal field, Mid-Cayman Rise. Geochimica Et Cosmochimica Acta, 2018, 228, 95-118.	3.9	63
21	Water mass analysis of the 2013 US GEOTRACES eastern Pacific zonal transect (GP16). Marine Chemistry, 2018, 201, 6-19.	2.3	38
22	Exploring ocean worlds on Earth and beyond. Nature Geoscience, 2018, 11, 2-4.	12.9	23
23	The U.S.GEOTRACES Eastern Tropical Pacific Transect (GP16). Marine Chemistry, 2018, 201, 1-5.	2.3	16
24	Iron persistence in a distal hydrothermal plume supported by dissolvedâ€“particulate exchange. Nature Geoscience, 2017, 10, 195-201.	12.9	204
25	The design and 200 day per year operation of the Autonomous Underwater Vehicle Sentry. , 2016, , .		18
26	Hydrothermal impacts on trace element and isotope ocean biogeochemistry. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160035.	3.4	59
27	Deciphering the Complex Chemistry of Deep-Ocean Particles Using Complementary Synchrotron X-ray Microscope and Microprobe Instruments. Accounts of Chemical Research, 2016, 49, 128-137.	15.6	21
28	Subseafloor microbial communities in hydrogenâ€rich vent fluids from hydrothermal systems along the <scp>M</scp>idâ€<scp>C</scp>ayman <scp>R</scp>ise. Environmental Microbiology, 2016, 18, 1970-1987.	3.8	88
29	Hydrothermal exploration of mid-ocean ridges: Where might the largest sulfide deposits be forming?. Chemical Geology, 2016, 420, 114-126.	3.3	117
30	Influence of ice thickness and surface properties on light transmission through <scp>A</scp>rctic sea ice. Journal of Geophysical Research: Oceans, 2015, 120, 5932-5944.	2.6	70
31	Particle dynamics in the rising plume at <scp>P</scp>iccard <scp>H</scp>ydrothermal <scp>F</scp>ield, <scp>M</scp>idâ€<scp>C</scp>ayman <scp>R</scp>ise. Geochemistry, Geophysics, Geosystems, 2015, 16, 2762-2774.	2.5	13
32	Pathways for abiotic organic synthesis at submarine hydrothermal fields. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7668-7672.	7.1	266
33	Basin-scale transport of hydrothermal dissolved metals across the South Pacific Ocean. Nature, 2015, 523, 200-203.	27.8	397
34	Where are the undiscovered hydrothermal vents on oceanic spreading ridges?. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 121, 202-212.	1.4	141
35	Composition of hydrothermal fluids and mineralogy of associated chimney material on the East Scotia Ridge back-arc spreading centre. Geochimica Et Cosmochimica Acta, 2014, 139, 47-71.	3.9	61
36	The Thermal Structure of the Oceanic Crust, Ridge-Spreading and Hydrothermal Circulation: How Well do we Understand their Inter-Connections?. Geophysical Monograph Series, 2013, , 1-18.	0.1	29

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37	Sustained volcanically-hosted venting at ultraslow ridges: Piccard Hydrothermal Field, Mid-Cayman Rise. Earth and Planetary Science Letters, 2013, 380, 162-168.	4.4	36
38	An authoritative global database for active submarine hydrothermal vent fields. Geochemistry, Geophysics, Geosystems, 2013, 14, 4892-4905.	2.5	181
39	Trophic regions of a hydrothermal plume dispersing away from an ultramaficâ€hosted ventâ€system: Von Damm ventâ€site, Midâ€Cayman Rise. Geochemistry, Geophysics, Geosystems, 2013, 14, 317-327.	2.5	29
40	Hydrothermal vent fields and chemosynthetic biota on the world's deepest seafloor spreading centre. Nature Communications, 2012, 3, 620.	12.8	162
41	Reply to Boehm and Carragher: Multiple lines of evidence link deep-water coral damage to Deepwater Horizon oil spill. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, .	7.1	52
42	Timeâ€series analysis of two hydrothermal plumes at 9Â°50â€²N East Pacific Rise reveals distinct, heterogeneous bacterial populations. Geobiology, 2012, 10, 178-192.	2.4	54
43	Lightly tethered unmanned underwater vehicle for under-ice exploration. , 2012, , .		5
44	First active hydrothermal vents on an ultraslow-spreading center: Southwest Indian Ridge. Geology, 2012, 40, 47-50.	4.4	236
45	Dissolved and particulate organic carbon in hydrothermal plumes from the East Pacific Rise, 9Â°50â€²N. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 922-931.	1.4	65
46	Deep-Water Chemosynthetic Ecosystem Research during the Census of Marine Life Decade and Beyond: A Proposed Deep-Ocean Road Map. PLoS ONE, 2011, 6, e23259.	2.5	105
47	Deep, diverse and definitely different: unique attributes of the world's largest ecosystem. Biogeosciences, 2010, 7, 2851-2899.	3.3	619
48	Diverse styles of submarine venting on the ultraslow spreading Mid-Cayman Rise. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14020-14025.	7.1	140
49	A reduced crustal magnetization zone near the first observed active hydrothermal vent field on the Southwest Indian Ridge. Geophysical Research Letters, 2010, 37, .	4.0	47
50	Rapid dispersal of a hydrothermal plume by turbulent mixing. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 931-945.	1.4	17
51	The relationships between volcanism, tectonism, and hydrothermal activity on the Southern Equatorial Mid-Atlantic Ridge. Geophysical Monograph Series, 2010, , 133-152.	0.1	9
52	Preservation of iron(II) by carbon-rich matrices in a hydrothermal plume. Nature Geoscience, 2009, 2, 197-201.	12.9	200
53	Global environmental effects of large volcanic eruptions on ocean chemistry: Evidence from â€œhydrothermalâ€•sediments (ODP Leg 185, Site 1149B). Journal of Geophysical Research, 2008, 113, .	3.3	9
54	The distribution and stabilisation of dissolved Fe in deep-sea hydrothermal plumes. Earth and Planetary Science Letters, 2008, 270, 157-167.	4.4	211

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55	Hydrothermal exploration with the Autonomous Benthic Explorer. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 203-219.	1.4	132
56	Hydrothermal activity on the ultraâ€slow spreading southern Knipovich Ridge. Geochemistry, Geophysics, Geosystems, 2007, 8, .	2.5	27
57	Hydrothermal exploration of the Fonualei Rift and Spreading Center and the Northeast Lau Spreading Center. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	41
58	Hydrothermal sediments as a potential record of seawater Nd isotope compositions: The Rainbow vent site (36Â°14â€²N, Mid-Atlantic Ridge). Paleoceanography, 2006, 21, .	3.0	11
59	Vailulu'u Seamount, Samoa: Life and death on an active submarine volcano. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6448-6453.	7.1	81
60	Hydrothermal exploration and astrobiology: oases for life in distant oceans?. International Journal of Astrobiology, 2004, 3, 81-95.	1.6	6
61	Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean. Nature, 2003, 421, 252-256.	27.8	206
62	Increased input of circumpolar deep water-borne detritus to the glacial SE Atlantic Ocean. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	19
63	Optimization of an inductively coupled plasma-optical emission spectrometry method for the rapid determination of high-precision Mg/Ca and Sr/Ca in foraminiferal calcite. Geochemistry, Geophysics, Geosystems, 2003, 4, n/a-n/a.	2.5	25
64	Hydrothermal activity on the eastern SWIR (50Â°-70Â°E): Evidence from core-top geochemistry, 1887 and 1998. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	27
65	Flow and Mixing in the Rift Valley of the Mid-Atlantic Ridge. Journal of Physical Oceanography, 2002, 32, 1763-1778.	1.7	67
66	Hf isotope ratio analysis using multi-collector inductively coupled plasma mass spectrometry: an evaluation of isobaric interference corrections. Journal of Analytical Atomic Spectrometry, 2002, 17, 1567-1574.	3.0	1,087
67	Temporal variability of the hydrothermal plume above the Kairei vent field, 25Â°S, Central Indian Ridge. Geochemistry, Geophysics, Geosystems, 2002, 3, XXX-XXX.	2.5	23
68	Geotectonic setting of hydrothermal activity on the summit of Lucky Strike Seamount (37Â°17â€²N,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.5	57
69	Evolution and Biogeography of Deep-Sea Vent and Seep Invertebrates. Science, 2002, 295, 1253-1257.	12.6	526
70	Understanding the biogeography of chemosynthetic ecosystems. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 2002, 25, 227-241.	0.7	64
71	Distribution and behavior of dissolved hydrogen sulfide in hydrothermal plumes. Limnology and Oceanography, 2001, 46, 461-464.	3.1	17
72	Hydrothermal activity along the southwest Indian ridge. Nature, 1998, 395, 490-493.	27.8	146

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73	The relationship between P/Fe and V/Fe ratios in hydrothermal precipitates and dissolved phosphate in seawater. Geophysical Research Letters, 1998, 25, 2253-2256.	4.0	103
74	Hydrothermal Plume Detection in the Deep Oceanâ€"A Combination of Technologies. Underwater Technology, 1998, 23, 71-75.	0.3	3
75	Continuation of the hydrothermal fluid chemistry time series at TAG, and the effects of ODP drilling. Geophysical Research Letters, 1996, 23, 3487-3489.	4.0	63
76	The geochemistry of Atlantic hydrothermal particles. Geophysical Research Letters, 1996, 23, 3503-3506.	4.0	16
77	The Rainbow Hydrothermal Plume, 36Â°15â€²N, MAR. Geophysical Research Letters, 1996, 23, 2979-2982.	4.0	70
78	Time series studies of vent fluids from the TAG and MARK sites (1986, 1990) Mid-Atlantic Ridge: a new solution chemistry model and a mechanism for Cu/Zn zonation in massive sulphide orebodies. Geological Society Special Publication, 1995, 87, 77-86.	1.3	65
79	On the Global Distribution of Hydrothermal Vent Fields. Geophysical Monograph Series, 0, , 245-266.	0.1	97
80	Hydrothermal Plumes Over Spreading-Center Axes: Global Distributions and Geological Inferences. Geophysical Monograph Series, 0, , 47-71.	0.1	101