Huaiyang Zhou

List of Publications by Year
in descending order

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57 papers	1,144 citations	361413 20 h-index	434195 31 g-index
57 all docs	57 docs citations	57 times ranked	1478 citing authors

#	Article	IF	Citations
1	Thin crust as evidence for depleted mantle supporting the Marion Rise. Nature, 2013, 494, 195-200.	27.8	135
2	The impact of temperature on microbial diversity and AOA activity in the Tengchong Geothermal Field, China. Scientific Reports, 2015, 5, 17056.	3.3	114
3	Using Bathymodiolus tissue stable carbon, nitrogen and sulfur isotopes to infer biogeochemical process at a cold seep in the South China Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 104, 52-59.	1.4	86
4	Microbial diversity of a sulfide black smoker in main endeavour hydrothermal vent field, Juan de Fuca Ridge. Journal of Microbiology, 2009, 47, 235-247.	2.8	44
5	Microbial diversity and biomineralization in low-temperature hydrothermal iron-silica-rich precipitates of the Lau Basin hydrothermal field. FEMS Microbiology Ecology, 2012, 81, 205-216.	2.7	41
6	Molecular evidence for microorganisms participating in Fe, Mn, and S biogeochemical cycling in two lowâ€temperature hydrothermal fields at the Southwest Indian Ridge. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 665-679.	3.0	39
7	Formation of Feâ€“Mnâ€“Si oxide and nontronite deposits in hydrothermal fields on the Valu Fa Ridge, Lau Basin. Journal of Asian Earth Sciences, 2012, 43, 64-76.	2.3	37
8	Ecological characterization of cold-seep epifauna in the South China Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2020, 163, 103361.	1.4	37
9	Geochemistry of hydrothermal vent fluids and its implications for subsurface processes at the active Longqi hydrothermal field, Southwest Indian Ridge. Deep-Sea Research Part I: Oceanographic Research Papers, 2017, 122, 41-47.	1.4	35
10	Diversity of biogenic minerals in low-temperature Si-rich deposits from a newly discovered hydrothermal field on the ultraslow spreading Southwest Indian Ridge. Journal of Geophysical Research, 2011, 116, .	3.3	33
11	The geochemical characteristics and Fe(II) oxidation kinetics of hydrothermal plumes at the Southwest Indian Ridge. Marine Chemistry, 2012, 134-135, 29-35.	2.3	28
12	Ocean rises are products of variable mantle composition, temperature and focused melting. Nature Geoscience, 2015, 8, 68-74.	12.9	28
13	Oxidative Weathering and Microbial Diversity of an Inactive Seafloor Hydrothermal Sulfide Chimney. Frontiers in Microbiology, 2017, 8, 1378.	3.5	28
14	Mineralogical characterization and formation of Fe-Si oxyhydroxide deposits from modern seafloor hydrothermal vents. American Mineralogist, 2013, 98, 85-97.	1.9	26
15	Niche Differentiation of Sulfate- and Iron-Dependent Anaerobic Methane Oxidation and Methylotrophic Methanogenesis in Deep Sea Methane Seeps. Frontiers in Microbiology, 2020, 11, 1409.	3.5	26
16	A diagnostic GDGT signature for the impact of hydrothermal activity on surface deposits at the Southwest Indian Ridge. Organic Geochemistry, 2016, 99, 90-101.	1.8	24
17	Melt extraction and mantle source at a Southwest Indian Ridge Dragon Bone amagmatic segment on the Marion Rise. Lithos, 2016, 246-247, 48-60.	1.4	24
18	Characteristics and source of inorganic and organic compounds in the sediments from two hydrothermal fields of the Central Indian and Mid-Atlantic Ridges. Journal of Asian Earth Sciences, 2011, 41, 355-368.	2.3	22

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19	Intracellular and extracellular mineralization of a microbial community in the Edmond deep-sea vent field environment. Sedimentary Geology, 2010, 229, 193-206.	2.1	21
20	Hydrothermal Feâ€“Siâ€“Mn oxide deposits from the Central and South Valu Fa Ridge, Lau Basin. Applied Geochemistry, 2011, 26, 1192-1204.	3.0	20
21	Bio-oxidation of pyrite, chalcopyrite and pyrrhotite by Acidithiobacillus ferrooxidans. Science Bulletin, 2007, 52, 2702-2714.	1.7	19
22	Jurassic zircons from the Southwest Indian Ridge. Scientific Reports, 2016, 6, 26260.	3.3	19
23	Microbial Distribution in a Hydrothermal Plume of the Southwest Indian Ridge. Geomicrobiology Journal, 2016, 33, 401-415.	2.0	18
24	Sulfate reduction and formation of iron sulfide minerals in nearshore sediments from Qi'ao Island, Pearl River Estuary, Southern China. Quaternary International, 2017, 452, 137-147.	1.5	18
25	Magnetite magnetofossils record biogeochemical remanent magnetization in hydrogenetic ferromanganese crusts. Geology, 2020, 48, 298-302.	4.4	15
26	Biomineralization of phototrophic microbes in silica-enriched hot springs in South China. Science Bulletin, 2007, 52, 367-379.	1.7	14
27	Processes controlling the seasonal and spatial variations in sulfate profiles in the pore water of the sediments surrounding Qi'ao Island, Pearl River Estuary, Southern China. Continental Shelf Research, 2015, 98, 26-35.	1.8	14
28	Microbe-related precipitation of iron and silica in the Edmond deep-sea hydrothermal vent field on the Central Indian Ridge. Science Bulletin, 2007, 52, 3233-3238.	1.7	13
29	Quantifying the sources of dissolved inorganic carbon within the sulfate-methane transition zone in nearshore sediments of Qiâ€™ao Island, Pearl River Estuary, Southern China. Science China Earth Sciences, 2016, 59, 1959-1970.	5.2	13
30	Moored observation of abyssal flow and temperature near a hydrothermal vent on the S outhwest I ndian R idge. Journal of Geophysical Research: Oceans, 2016, 121, 836-860.	2.6	12
31	First identification of a Cathaysian continental fragment beneath the Gagua Ridge, Philippine Sea, and its tectonic implications. Geology, 2021, 49, 1332-1336.	4.4	10
32	Anaerobic oxidation of methane: Geochemical evidence from pore-water in coastal sediments of Qiâ€™ao Island (Pearl River Estuary), southern China. Science Bulletin, 2006, 51, 2006-2015.	1.7	9
33	Detection of methane plumes in the water column of Logatchev hydrothermal vent field, Mid-Atlantic Ridge. Science Bulletin, 2007, 52, 2140-2146.	1.7	9
34	Development and application of a gas chromatography method for simultaneously measuring H₂ and CH₄ in hydrothermal plume samples. Limnology and Oceanography: Methods, 2015, 13, 722-730.	2.0	9
35	Geochemical impacts of hydrothermal activity on surface deposits at the Southwest Indian Ridge. Deep-Sea Research Part I: Oceanographic Research Papers, 2018, 139, 1-13.	1.4	9
36	Growth model of a hydrothermal low-temperature Si-rich chimney: Example from the CDE hydrothermal field, Lau Basin. Science China Earth Sciences, 2012, 55, 1716-1730.	5.2	8

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37	Elucidating the biomineralization of low-temperature hydrothermal precipitates with varying Fe, Si contents: Indication from ultrastructure and microbiological analyses. Deep-Sea Research Part I: Oceanographic Research Papers, 2020, 157, 103208.	1.4	8
38	New index of ferromanganese crusts reflecting oceanic environmental oxidation. Science in China Series D: Earth Sciences, 2007, 50, 371-384.	0.9	7
39	Magnetic stratigraphic dating of marine hydrogenetic ferromanganese crusts. Scientific Reports, 2017, 7, 16748.	3.3	7
40	Trace Element and Isotopic Evidence for Recycled Lithosphere from Basalts from 48 to 53Â°E, Southwest Indian Ridge. Journal of Petrology, 2021, 61, .	2.8	7
41	The Origin of Late Cenozoic Magmatism in the South China Sea and Southeast Asia. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009686.	2.5	7
42	Rates of bacterial sulfate reduction and their response to experimental temperature changes in coastal sediments of Qiâ€™ao Island, Zhujiang River Estuary in China. Acta Oceanologica Sinica, 2014, 33, 10-17.	1.0	6
43	The Size Fractionation and Speciation of Iron in the Longqi Hydrothermal Plumes on the Southwest Indian Ridge. Journal of Geophysical Research: Oceans, 2019, 124, 4029-4043.	2.6	6
44	Early-stage mineralization of hydrothermal tubeworms: New insights into the role of microorganisms in the process of mineralization. Science Bulletin, 2008, 53, 251-261.	1.7	5
45	Anaerobic oxidation of methane in coastal sediment from Guishan Island (Pearl River Estuary), South China Sea. Journal of Earth System Science, 2008, 117, 935-943.	1.3	5
46	Mantle melting variation and refertilization beneath the Dragon Bone amagmatic segment (53Â°E SWIR): Major and trace element compositions of peridotites at ridge flanks. Lithos, 2019, 324-325, 325-339.	1.4	5
47	Ultrastructural Evidence for a Novel Accumulation of Ca in a Microbial Mat from a Slight Acidic Hot Spring. Acta Geologica Sinica, 2010, 84, 624-631.	1.4	4
48	Silicaâ€Rich Vein Formation in an Evolving Stress Field, Atlantis Bank Oceanic Core Complex. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008795.	2.5	4
49	Aerobic and Anaerobic Ammonia-Oxidizing Microorganisms in Low-Temperature Hydrothermal Fe-Si-rich Precipitates of the Southwestern Pacific Ocean. Geomicrobiology Journal, 2014, 31, 42-52.	2.0	3
50	Development of an undersea science node for cabled ocean observatories. , 2011, , .		2
51	Sr isotopes and REEs geochemistry of anhydrites from L vent black smoker chimney, East Pacific Rise 9Â°Nâ€“10Â°N. Journal of Earth Science (Wuhan, China), 2015, 26, 920-928.	3.2	2
52	Mantle heterogeneity beneath the South China Sea: Chemical and isotopic evidence for contamination of ambient asthenospheric mantle. Lithos, 2020, 354-355, 105335.	1.4	2
53	Mosaic zircon petrochronology and implications for the ultra-slow spreading process of Southwest Indian Ridge. Lithos, 2021, 388-389, 106052.	1.4	2
54	Highly heterogeneous mantle caused by recycling of oceanic lithosphere from the mantle transition zone. Earth and Planetary Science Letters, 2022, 593, 117679.	4.4	2

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55	Bioturbation in near-surface sediments from the COMRA Polymetallic Nodule Area: Evidence from excess210Pb measurements. Science Bulletin, 2004, 49, 2538-2542.	1.7	1
56	Mechatronic integration and implementation of in situ multipoint temperature measurement for seafloor hydrothermal vent. Science in China Series D: Earth Sciences, 2007, 50, 144-153.	0.9	1
57	Basin-scale seawater lead isotopic character and its geological evolution indicated by Fe-Mn deposits in the SCS. Marine Georesources and Geotechnology, 2020, 38, 876-886.	2.1	1