

# 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	Highly heterogeneous mantle caused by recycling of oceanic lithosphere from the mantle transition zone. <i>Earth and Planetary Science Letters</i> , 2022, 593, 117679.	4.4	2
2	Trace Element and Isotopic Evidence for Recycled Lithosphere from Basalts from 48 to 53°E, Southwest Indian Ridge. <i>Journal of Petrology</i> , 2021, 61, .	2.8	7
3	Mosaic zircon petrochronology and implications for the ultra-slow spreading process of Southwest Indian Ridge. <i>Lithos</i> , 2021, 388-389, 106052.	1.4	2
4	First identification of a Cathaysian continental fragment beneath the Gagua Ridge, Philippine Sea, and its tectonic implications. <i>Geology</i> , 2021, 49, 1332-1336.	4.4	10
5	The Origin of Late Cenozoic Magmatism in the South China Sea and Southeast Asia. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009686.	2.5	7
6	Basin-scale seawater lead isotopic character and its geological evolution indicated by Fe-Mn deposits in the SCS. <i>Marine Georesources and Geotechnology</i> , 2020, 38, 876-886.	2.1	1
7	Elucidating the biomineralization of low-temperature hydrothermal precipitates with varying Fe, Si contents: Indication from ultrastructure and microbiological analyses. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 157, 103208.	1.4	8
8	Mantle heterogeneity beneath the South China Sea: Chemical and isotopic evidence for contamination of ambient asthenospheric mantle. <i>Lithos</i> , 2020, 354-355, 105335.	1.4	2
9	Magnetite magnetofossils record biogeochemical remanent magnetization in hydrogenetic ferromanganese crusts. <i>Geology</i> , 2020, 48, 298-302.	4.4	15
10	Ecological characterization of cold-seep epifauna in the South China Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 163, 103361.	1.4	37
11	Silica-Rich Vein Formation in an Evolving Stress Field, Atlantis Bank Oceanic Core Complex. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008795.	2.5	4
12	Niche Differentiation of Sulfate- and Iron-Dependent Anaerobic Methane Oxidation and Methylo-trophic Methanogenesis in Deep Sea Methane Seeps. <i>Frontiers in Microbiology</i> , 2020, 11, 1409.	3.5	26
13	The Size Fractionation and Speciation of Iron in the Longqi Hydrothermal Plumes on the Southwest Indian Ridge. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4029-4043.	2.6	6
14	Mantle melting variation and refertilization beneath the Dragon Bone amagmatic segment (53°E SWIR): Major and trace element compositions of peridotites at ridge flanks. <i>Lithos</i> , 2019, 324-325, 325-339.	1.4	5
15	Geochemical impacts of hydrothermal activity on surface deposits at the Southwest Indian Ridge. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 139, 1-13.	1.4	9
16	Geochemistry of hydrothermal vent fluids and its implications for subsurface processes at the active Longqi hydrothermal field, Southwest Indian Ridge. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 122, 41-47.	1.4	35
17	Sulfate reduction and formation of iron sulfide minerals in nearshore sediments from Qi'ao Island, Pearl River Estuary, Southern China. <i>Quaternary International</i> , 2017, 452, 137-147.	1.5	18
18	Magnetic stratigraphic dating of marine hydrogenetic ferromanganese crusts. <i>Scientific Reports</i> , 2017, 7, 16748.	3.3	7

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19	Oxidative Weathering and Microbial Diversity of an Inactive Seafloor Hydrothermal Sulfide Chimney. <i>Frontiers in Microbiology</i> , 2017, 8, 1378.	3.5	28
20	Jurassic zircons from the Southwest Indian Ridge. <i>Scientific Reports</i> , 2016, 6, 26260.	3.3	19
21	Moored observation of abyssal flow and temperature near a hydrothermal vent on the Southwest Indian Ridge. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 836-860.	2.6	12
22	Quantifying the sources of dissolved inorganic carbon within the sulfate-methane transition zone in nearshore sediments of Qi'ao Island, Pearl River Estuary, Southern China. <i>Science China Earth Sciences</i> , 2016, 59, 1959-1970.	5.2	13
23	A diagnostic GDGT signature for the impact of hydrothermal activity on surface deposits at the Southwest Indian Ridge. <i>Organic Geochemistry</i> , 2016, 99, 90-101.	1.8	24
24	Melt extraction and mantle source at a Southwest Indian Ridge Dragon Bone amagmatic segment on the Marion Rise. <i>Lithos</i> , 2016, 246-247, 48-60.	1.4	24
25	Microbial Distribution in a Hydrothermal Plume of the Southwest Indian Ridge. <i>Geomicrobiology Journal</i> , 2016, 33, 401-415.	2.0	18
26	The impact of temperature on microbial diversity and AOA activity in the Tengchong Geothermal Field, China. <i>Scientific Reports</i> , 2015, 5, 17056.	3.3	114
27	Development and application of a gas chromatography method for simultaneously measuring $H_2$ and $CH_4$ in hydrothermal plume samples. <i>Limnology and Oceanography: Methods</i> , 2015, 13, 722-730.	2.0	9
28	Sr isotopes and REEs geochemistry of anhydrites from L vent black smoker chimney, East Pacific Rise 9°N-10°N. <i>Journal of Earth Science (Wuhan, China)</i> , 2015, 26, 920-928.	3.2	2
29	Using <i>Bathymodiolus</i> tissue stable carbon, nitrogen and sulfur isotopes to infer biogeochemical process at a cold seep in the South China Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 104, 52-59.	1.4	86
30	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. <i>Continental Shelf Research</i> , 2015, 98, 26-35.	1.8	14
31	Ocean rises are products of variable mantle composition, temperature and focused melting. <i>Nature Geoscience</i> , 2015, 8, 68-74.	12.9	28
32	Aerobic and Anaerobic Ammonia-Oxidizing Microorganisms in Low-Temperature Hydrothermal Fe-Si-rich Precipitates of the Southwestern Pacific Ocean. <i>Geomicrobiology Journal</i> , 2014, 31, 42-52.	2.0	3
33	Rates of bacterial sulfate reduction and their response to experimental temperature changes in coastal sediments of Qi'ao Island, Zhujiang River Estuary in China. <i>Acta Oceanologica Sinica</i> , 2014, 33, 10-17.	1.0	6
34	Mineralogical characterization and formation of Fe-Si oxyhydroxide deposits from modern seafloor hydrothermal vents. <i>American Mineralogist</i> , 2013, 98, 85-97.	1.9	26
35	Thin crust as evidence for depleted mantle supporting the Marion Rise. <i>Nature</i> , 2013, 494, 195-200.	27.8	135
36	Molecular evidence for microorganisms participating in Fe, Mn, and S biogeochemical cycling in two low-temperature hydrothermal fields at the Southwest Indian Ridge. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 665-679.	3.0	39

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37	Formation of Fe-Mn-Si oxide and nontronite deposits in hydrothermal fields on the Valu Fa Ridge, Lau Basin. <i>Journal of Asian Earth Sciences</i> , 2012, 43, 64-76.	2.3	37
38	Growth model of a hydrothermal low-temperature Si-rich chimney: Example from the CDE hydrothermal field, Lau Basin. <i>Science China Earth Sciences</i> , 2012, 55, 1716-1730.	5.2	8
39	Microbial diversity and biomineralization in low-temperature hydrothermal iron-silica-rich precipitates of the Lau Basin hydrothermal field. <i>FEMS Microbiology Ecology</i> , 2012, 81, 205-216.	2.7	41
40	The geochemical characteristics and Fe(II) oxidation kinetics of hydrothermal plumes at the Southwest Indian Ridge. <i>Marine Chemistry</i> , 2012, 134-135, 29-35.	2.3	28
41	Diversity of biogenic minerals in low-temperature Si-rich deposits from a newly discovered hydrothermal field on the ultraslow spreading Southwest Indian Ridge. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	33
42	Hydrothermal Fe-Mn oxide deposits from the Central and South Valu Fa Ridge, Lau Basin. <i>Applied Geochemistry</i> , 2011, 26, 1192-1204.	3.0	20
43	Characteristics and source of inorganic and organic compounds in the sediments from two hydrothermal fields of the Central Indian and Mid-Atlantic Ridges. <i>Journal of Asian Earth Sciences</i> , 2011, 41, 355-368.	2.3	22
44	Development of an undersea science node for cabled ocean observatories. , 2011, .		2
45	Intracellular and extracellular mineralization of a microbial community in the Edmond deep-sea vent field environment. <i>Sedimentary Geology</i> , 2010, 229, 193-206.	2.1	21
46	Ultrastructural Evidence for a Novel Accumulation of Ca in a Microbial Mat from a Slight Acidic Hot Spring. <i>Acta Geologica Sinica</i> , 2010, 84, 624-631.	1.4	4
47	Microbial diversity of a sulfide black smoker in main endeavour hydrothermal vent field, Juan de Fuca Ridge. <i>Journal of Microbiology</i> , 2009, 47, 235-247.	2.8	44
48	Early-stage mineralization of hydrothermal tubeworms: New insights into the role of microorganisms in the process of mineralization. <i>Science Bulletin</i> , 2008, 53, 251-261.	1.7	5
49	Anaerobic oxidation of methane in coastal sediment from Guishan Island (Pearl River Estuary), South China Sea. <i>Journal of Earth System Science</i> , 2008, 117, 935-943.	1.3	5
50	New index of ferromanganese crusts reflecting oceanic environmental oxidation. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 371-384.	0.9	7
51	Mechatronic integration and implementation of in situ multipoint temperature measurement for seafloor hydrothermal vent. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 144-153.	0.9	1
52	Biomineralization of phototrophic microbes in silica-enriched hot springs in South China. <i>Science Bulletin</i> , 2007, 52, 367-379.	1.7	14
53	Detection of methane plumes in the water column of Logatchev hydrothermal vent field, Mid-Atlantic Ridge. <i>Science Bulletin</i> , 2007, 52, 2140-2146.	1.7	9
54	Bio-oxidation of pyrite, chalcopyrite and pyrrhotite by <i>Acidithiobacillus ferrooxidans</i> . <i>Science Bulletin</i> , 2007, 52, 2702-2714.	1.7	19

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55	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
56	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
57	Bioturbation in near-surface sediments from the COMRA Polymetallic Nodule Area: Evidence from excess <sup>210</sup> Pb measurements. Science Bulletin, 2004, 49, 2538-2542.	1.7	1