Xiang Zhao

List of Publications by Year
in descending order

52 papers	1,827 citations	331670 21 h-index	265206 42 g-index
57 all docs	57 docs citations	57 times ranked	1598 citing authors

#	Article	IF	Citations
1	Identification and characterization of magnetotactic Gammaproteobacteria from a salt evaporation pool, Bohai Bay, China. Environmental Microbiology, 2022, 24, 938-950.	3.8	11
2	Unlocking information about fine magnetic particle assemblages from first-order reversal curve diagrams: Recent advances. Earth-Science Reviews, 2022, 227, 103950.	9.1	15
3	Abyssal Manganese Nodule Recording of Global Cooling and Tibetan Plateau Uplift Impacts on Asian Aridification. Geophysical Research Letters, 2022, 49, .	4.0	8
4	Identification of sulfateâ€reducing magnetotactic bacteria via a groupâ€specific <scp>16S rDNA</scp> primer and correlative fluorescence and electron microscopy: Strategy for cultureâ€independent study. Environmental Microbiology, 2022, 24, 5019-5038.	3.8	5
5	Diverse phylogeny and morphology of magnetite biomineralized by magnetotactic cocci. Environmental Microbiology, 2021, 23, 1115-1129.	3.8	25
6	Assessment of Magnetic Techniques for Understanding Complex Mixtures of Magnetite and Hematite: The Inuyama Red Chert. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	5
7	Understanding Nonideal Paleointensity Recording in Igneous Rocks: Insights From Aging Experiments on Lava Samples and the Causes and Consequences of â€œFragileâ€•Curvature in Arai Plots. Geochemistry, Geophysics, Geosystems, 2021, 22, .	2.5	15
8	Climatically Modulated Dust Inputs from New Zealand to the Southwest Pacific Sector of the Southern Ocean Over the Last 410 kyr. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA003949.	2.9	2
9	Diverse Intracellular Inclusion Types Within Magnetotactic Bacteria: Implications for Biogeochemical Cycling in Aquatic Environments. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006310.	3.0	17
10	A magnetic approach to unravelling the paleoenvironmental significance of nanometer-sized Fe hydroxide in NW Pacific ferromanganese deposits. Earth and Planetary Science Letters, 2021, 565, 116945.	4.4	10
11	Environmental magnetic fingerprinting of anthropogenic and natural atmospheric deposition over southwestern Europe. Atmospheric Environment, 2021, 261, 118568.	4.1	6
12	Quantifying Contributions of Magnetic Inclusions Within Silicates to Marine Sediments: A Dissolution Approach to Isolating Volcanic Signals for Improved Paleoenvironmental Reconstruction. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022680.	3.4	7
13	A Novel Magnetotactic Alphaproteobacterium Producing Intracellular Magnetite and Calcium-Bearing Minerals. Applied and Environmental Microbiology, 2021, 87, e0155621.	3.1	4
14	Lowâ€Temperature Magnetic Properties of Marine Sedimentsâ€”Quantifying Magnetofossils, Superparamagnetism, and Maghemitization: Eastern Mediterranean Examples. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021793.	3.4	1
15	Influence of Early Lowâ€Temperature and Later Highâ€Temperature Diagenesis on Magnetic Mineral Assemblages in Marine Sediments From the Nankai Trough. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC010133.	2.5	3
16	Magnetic Domain State and Anisotropy in Hematite (Î±â€Fe₂O₃) From Firstâ€Order Reversal Curve Diagrams. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB023027.	3.4	8
17	An Automatic Model Selectionâ€Based Machine Learning Framework to Estimate FORC Distributions. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020418.	3.4	9
18	Magnetic Properties of Late Holocene Dead Sea Sediments as a Monitor of Regional Hydroclimate. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009176.	2.5	4

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19	Assessment and Integration of Bulk and Componentâ€Specific Methods for Identifying Mineral Magnetic Assemblages in Environmental Magnetism. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019024.	3.4	7
20	Expanding magnetic organelle biogenesis in the domain Bacteria. Microbiome, 2020, 8, 152.	11.1	44
21	Benchmarking Component Analysis of Remanent Magnetization Curves With a Synthetic Mixture Series: Insight Into the Reliability of Unmixing Natural Samples. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020105.	3.4	6
22	Magnetic evidence for Yellow River sediment in the late Holocene deposit of the Yangtze River Delta, China. Marine Geology, 2020, 427, 106274.	2.1	20
23	Bulletâ€Shaped Magnetite Biomineralization Within a Magnetotactic Deltaproteobacterium: Implications for Magnetofossil Identification. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005680.	3.0	32
24	Characterization and Quantification of Magnetofossils Within Abyssal Manganese Nodules From the Western Pacific Ocean and Implications for Nodule Formation. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008811.	2.5	15
25	Magnetic Properties of Sedimentary Smythite (Fe₉S₁₁). Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018812.	3.4	4
26	Particle-size dependent magnetic properties of Scotia Sea sediments since the Last Glacial Maximum: Glacial ice-sheet discharge controlling magnetic proxies. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 557, 109906.	2.3	9
27	Hematite (Î±-Fe2O3) quantification in sedimentary magnetism: limitations of existing proxies and ways forward. Geoscience Letters, 2020, 7, .	3.3	30
28	Dating of tsunami boulders from Ishigaki Island, Japan, with a modified viscous remanent magnetization approach. Earth and Planetary Science Letters, 2019, 520, 94-104.	4.4	4
29	Domain State Diagnosis in Rock Magnetism: Evaluation of Potential Alternatives to the Day Diagram. Journal of Geophysical Research: Solid Earth, 2019, 124, 5286-5314.	3.4	44
30	Simulation of Remanent, Transient, and Induced FORC Diagrams for Interacting Particles With Uniaxial, Cubic, and Hexagonal Anisotropy. Journal of Geophysical Research: Solid Earth, 2019, 124, 12404-12429.	3.4	18
31	A Critical Appraisal of the â€œDayâ€•Diagram. Journal of Geophysical Research: Solid Earth, 2018, 123, 2618-2644.	3.4	153
32	Magnetic Domain State Diagnosis in Soils, Loess, and Marine Sediments From Multiple Firstâ€Order Reversal Curveâ€Type Diagrams. Journal of Geophysical Research: Solid Earth, 2018, 123, 998-1017.	3.4	9
33	Coupled microbial bloom and oxygenation decline recorded by magnetofossils during the Palaeoceneâ€“Eocene Thermal Maximum. Nature Communications, 2018, 9, 4007.	12.8	56
34	Applying the Burr Type XII Distribution to Decompose Remanent Magnetization Curves. Journal of Geophysical Research: Solid Earth, 2018, 123, 8298-8311.	3.4	11
35	Signatures of Reductive Magnetic Mineral Diagenesis From Unmixing of Firstâ€Order Reversal Curves. Journal of Geophysical Research: Solid Earth, 2018, 123, 4500-4522.	3.4	61
36	Genomic expansion of magnetotactic bacteria reveals an early common origin of magnetotaxis with lineage-specific evolution. ISME Journal, 2018, 12, 1508-1519.	9.8	103

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37	Multidecadally resolved polarity oscillations during a geomagnetic excursion. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8913-8918.	7.1	16
38	Measuring, Processing, and Analyzing Hysteresis Data. Geochemistry, Geophysics, Geosystems, 2018, 19, 1925-1945.	2.5	64
39	Influence of Sea Level Change and Centennial East Asian Monsoon Variations on Northern South China Sea Sediments Over the Past 36 kyr. Geochemistry, Geophysics, Geosystems, 2018, 19, 1674-1689.	2.5	13
40	Magnetic domain state diagnosis using hysteresis reversal curves. Journal of Geophysical Research: Solid Earth, 2017, 122, 4767-4789.	3.4	65
41	Remanence acquisition efficiency in biogenic and detrital magnetite and recording of geomagnetic paleointensity. Geochemistry, Geophysics, Geosystems, 2017, 18, 1435-1450.	2.5	37
42	Remagnetization mechanisms in Triassic red beds from South China. Earth and Planetary Science Letters, 2017, 479, 219-230.	4.4	25
43	Tectonic, climatic, and diagenetic control of magnetic properties of sediments from Kumano Basin, Nankai margin, southwestern Japan. Marine Geology, 2017, 391, 1-12.	2.1	14
44	Resolving the Origin of Pseudoâ€Single Domain Magnetic Behavior. Journal of Geophysical Research: Solid Earth, 2017, 122, 9534-9558.	3.4	145
45	Late Mioceneâ€“Pliocene Asian monsoon intensification linked to Antarctic ice-sheet growth. Earth and Planetary Science Letters, 2016, 444, 75-87.	4.4	86
46	Widespread occurrence of silicateâ€hosted magnetic mineral inclusions in marine sediments and their contribution to paleomagnetic recording. Journal of Geophysical Research: Solid Earth, 2016, 121, 8415-8431.	3.4	65
47	Magnetism of Alâ€substituted magnetite reduced from Alâ€hematite. Journal of Geophysical Research: Solid Earth, 2016, 121, 4195-4210.	3.4	18
48	Asian monsoon modulation of nonsteady state diagenesis in hemipelagic marine sediments offshore of <scp>J</scp>apan. Geochemistry, Geophysics, Geosystems, 2016, 17, 4383-4398.	2.5	22
49	A protocol for variableâ€resolution firstâ€order reversal curve measurements. Geochemistry, Geophysics, Geosystems, 2015, 16, 1364-1377.	2.5	61
50	Understanding fine magnetic particle systems through use of first-order reversal curve diagrams. Reviews of Geophysics, 2014, 52, 557-602.	23.0	310
51	Iron fertilisation and biogeochemical cycles in the sub-Arctic northwest Pacific during the late Pliocene intensification of northern hemisphere glaciation. Earth and Planetary Science Letters, 2011, 307, 253-265.	4.4	49
52	Complex polarity pattern at the former Plioâ€“Pleistocene global stratotype section at Vrica (Italy): Remagnetization by magnetic iron sulphides. Earth and Planetary Science Letters, 2010, 292, 98-111.	4.4	55