Xiang Zhao

List of Publications by Year
in descending order

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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	Understanding fine magnetic particle systems through use of first-order reversal curve diagrams. Reviews of Geophysics, 2014, 52, 557-602.	23.0	310
2	A Critical Appraisal of the â€œDayâ€•Diagram. Journal of Geophysical Research: Solid Earth, 2018, 123, 2618-2644.	3.4	153
3	Resolving the Origin of Pseudoâ€Single Domain Magnetic Behavior. Journal of Geophysical Research: Solid Earth, 2017, 122, 9534-9558.	3.4	145
4	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
5	Late Mioceneâ€“Pliocene Asian monsoon intensification linked to Antarctic ice-sheet growth. Earth and Planetary Science Letters, 2016, 444, 75-87.	4.4	86
6	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
7	Magnetic domain state diagnosis using hysteresis reversal curves. Journal of Geophysical Research: Solid Earth, 2017, 122, 4767-4789.	3.4	65
8	Measuring, Processing, and Analyzing Hysteresis Data. Geochemistry, Geophysics, Geosystems, 2018, 19, 1925-1945.	2.5	64
9	A protocol for variableâ€resolution firstâ€order reversal curve measurements. Geochemistry, Geophysics, Geosystems, 2015, 16, 1364-1377.	2.5	61
10	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
11	Coupled microbial bloom and oxygenation decline recorded by magnetofossils during the Palaeoceneâ€“Eocene Thermal Maximum. Nature Communications, 2018, 9, 4007.	12.8	56
12	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
13	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
14	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
15	Expanding magnetic organelle biogenesis in the domain Bacteria. Microbiome, 2020, 8, 152.	11.1	44
16	Remanence acquisition efficiency in biogenic and detrital magnetite and recording of geomagnetic paleointensity. Geochemistry, Geophysics, Geosystems, 2017, 18, 1435-1450.	2.5	37
17	Bulletâ€Shaped Magnetite Biomineralization Within a Magnetotactic Deltaproteobacterium: Implications for Magnetofossil Identification. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005680.	3.0	32
18	Hematite (Î±-Fe2O3) quantification in sedimentary magnetism: limitations of existing proxies and ways forward. Geoscience Letters, 2020, 7, .	3.3	30

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19	Remagnetization mechanisms in Triassic red beds from South China. Earth and Planetary Science Letters, 2017, 479, 219-230.	4.4	25
20	Diverse phylogeny and morphology of magnetite biomineralized by magnetotactic cocci. Environmental Microbiology, 2021, 23, 1115-1129.	3.8	25
21	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
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	Magnetism of Alâ€substituted magnetite reduced from Alâ€hematite. Journal of Geophysical Research: Solid Earth, 2016, 121, 4195-4210.	3.4	18
24	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
25	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
26	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
27	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
28	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
29	Unlocking information about fine magnetic particle assemblages from first-order reversal curve diagrams: Recent advances. Earth-Science Reviews, 2022, 227, 103950.	9.1	15
30	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
31	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
32	Applying the Burr Type XII Distribution to Decompose Remanent Magnetization Curves. Journal of Geophysical Research: Solid Earth, 2018, 123, 8298-8311.	3.4	11
33	Identification and characterization of magnetotactic Gammaproteobacteria from a salt evaporation pool, Bohai Bay, China. Environmental Microbiology, 2022, 24, 938-950.	3.8	11
34	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
35	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
36	An Automatic Model Selectionâ€Based Machine Learning Framework to Estimate FORC Distributions. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020418.	3.4	9

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37	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
38	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
39	Abyssal Manganese Nodule Recording of Global Cooling and Tibetan Plateau Uplift Impacts on Asian Aridification. Geophysical Research Letters, 2022, 49, .	4.0	8
40	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
41	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
42	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
43	Environmental magnetic fingerprinting of anthropogenic and natural atmospheric deposition over southwestern Europe. Atmospheric Environment, 2021, 261, 118568.	4.1	6
44	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
45	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
46	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
47	Magnetic Properties of Late Holocene Dead Sea Sediments as a Monitor of Regional Hydroclimate. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009176.	2.5	4
48	Magnetic Properties of Sedimentary Smythite (Fe₉S₁₁). Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018812.	3.4	4
49	A Novel Magnetotactic Alphaproteobacterium Producing Intracellular Magnetite and Calcium-Bearing Minerals. Applied and Environmental Microbiology, 2021, 87, e0155621.	3.1	4
50	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
51	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
52	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