## Liao Chang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Magnetic properties of sedimentary greigite (Fe <sub>3</sub> S <sub>4</sub> ): An update. Reviews of Geophysics, 2011, 49, .	23.0	318
2	Characterization of hematite (α-Fe2O3), goethite (α-FeOOH), greigite (Fe3S4), and pyrrhotite (Fe7S8) using first-order reversal curve diagrams. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	155
3	Magnetotactic bacterial abundance in pelagic marine environments is limited by organic carbon flux and availability of dissolved iron. Earth and Planetary Science Letters, 2011, 310, 441-452.	4.4	150
4	Searching for single domain magnetite in the "pseudoâ€singleâ€domain―sedimentary haystack: Implications of biogenic magnetite preservation for sediment magnetism and relative paleointensity determinations. Journal of Geophysical Research, 2012, 117, .	3.3	143
5	Fundamental magnetic parameters from pure synthetic greigite (Fe <sub>3</sub> S <sub>4</sub> ). Journal of Geophysical Research, 2008, 113, .	3.3	110
6	High-Purity Fe <sub>3</sub> S <sub>4</sub> Greigite Microcrystals for Magnetic and Electrochemical Performance. Chemistry of Materials, 2014, 26, 5821-5829.	6.7	97
7	Magnetic properties of pelagic marine carbonates. Earth-Science Reviews, 2013, 127, 111-139.	9.1	84
8	Magnetostratigraphic age of the Xiantai Paleolithic site in the Nihewan Basin and implications for early human colonization of Northeast Asia. Earth and Planetary Science Letters, 2006, 244, 336-348.	4.4	69
9	A 500,000 year record of Indian summer monsoon dynamics recorded by eastern equatorial Indian Ocean upper water-column structure. Quaternary Science Reviews, 2013, 77, 167-180.	3.0	69
10	Discrimination of biogenic and detrital magnetite through a double Verwey transition temperature. Journal of Geophysical Research: Solid Earth, 2016, 121, 3-14.	3.4	69
11	Continental-scale geographic change across Zealandia during Paleogene subduction initiation. Geology, 2020, 48, 419-424.	4.4	69
12	Magnetotactic bacterial response to Antarctic dust supply during the Palaeocene–Eocene thermal maximum. Earth and Planetary Science Letters, 2012, 333-334, 122-133.	4.4	67
13	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
14	Identification and environmental interpretation of diagenetic and biogenic greigite in sediments: A lesson from the Messinian Black Sea. Geochemistry, Geophysics, Geosystems, 2014, 15, 3612-3627.	2.5	63
15	A new magnetostratigraphic framework for the Lower Miocene (Burdigalian/Ottnangian, Karpatian) in the North Alpine Foreland Basin. Swiss Journal of Geosciences, 2013, 106, 309-334.	1.2	57
16	Coupled microbial bloom and oxygenation decline recorded by magnetofossils during the Palaeocene–Eocene Thermal Maximum. Nature Communications, 2018, 9, 4007.	12.8	56
17	Giant magnetofossils and hyperthermal events. Earth and Planetary Science Letters, 2012, 351-352, 258-269.	4.4	54
18	Characterizing magnetofossils from firstâ€order reversal curve (FORC) central ridge signatures. Geochemistry, Geophysics, Geosystems, 2014, 15, 2170-2179.	2.5	51

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19	Lowâ€ŧemperature magnetic properties of pelagic carbonates: Oxidation of biogenic magnetite and identification of magnetosome chains. Journal of Geophysical Research: Solid Earth, 2013, 118, 6049-6065.	3.4	50
20	Ionic liquid-modulated synthesis of ferrimagnetic Fe3S4 hierarchical superstructures. Chemical Communications, 2010, 46, 5006.	4.1	45
21	Lowâ€ŧemperature magnetic properties of greigite (Fe <sub>3</sub> S <sub>4</sub> ). Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	44
22	Quantifying magnetite magnetofossil contributions to sedimentary magnetizations. Earth and Planetary Science Letters, 2013, 382, 58-65.	4.4	44
23	Magnetic detection and characterization of biogenic magnetic minerals: A comparison of ferromagnetic resonance and firstâ€order reversal curve diagrams. Journal of Geophysical Research: Solid Earth, 2014, 119, 6136-6158.	3.4	42
24	Remanence acquisition efficiency in biogenic and detrital magnetite and recording of geomagnetic paleointensity. Geochemistry, Geophysics, Geosystems, 2017, 18, 1435-1450.	2.5	37
25	Insolation driven biomagnetic response to the Holocene Warm Period in semi-arid East Asia. Scientific Reports, 2015, 5, 8001.	3.3	35
26	Magnetic structure of greigite (Fe <sub>3</sub> S <sub>4</sub> ) probed by neutron powder diffraction and polarized neutron diffraction. Journal of Geophysical Research, 2009, 114, .	3.3	29
27	Magnetic characteristics of synthetic pseudoâ€singleâ€domain and multiâ€domain greigite (Fe <sub>3</sub> S <sub>4</sub> ). Geophysical Research Letters, 2007, 34, .	4.0	28
28	Preparation and magnetic properties of CoWO <sub>4</sub> nanocrystals. Crystal Research and Technology, 2012, 47, 1004-1007.	1.3	27
29	The Blake Event recorded near the Eemian type locality – A diachronic onset of the Eemian in Europe. Quaternary Geochronology, 2015, 28, 12-28.	1.4	26
30	Environmental magnetic implications of magnetofossil occurrence during the Middle Eocene Climatic Optimum (MECO) in pelagic sediments from the equatorial Indian Ocean. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 441, 212-222.	2.3	26
31	On the magnetocrystalline anisotropy of greigite (Fe3S4). Geochemistry, Geophysics, Geosystems, 2014, 15, 1558-1579.	2.5	24
32	Mind the gap: Towards a biogenic magnetite palaeoenvironmental proxy through an extensive finite-element micromagnetic simulation. Earth and Planetary Science Letters, 2020, 532, 116010.	4.4	23
33	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
34	Micromagnetic simulation of magnetofossils with realistic size and shape distributions: Linking magnetic proxies with nanoscale observations and implications for magnetofossil identification. Earth and Planetary Science Letters, 2019, 527, 115790.	4.4	22
35	Critical single domain grain sizes in chains of interacting greigite particles: Implications for magnetosome crystals. Geochemistry, Geophysics, Geosystems, 2013, 14, 5430-5441.	2.5	19
36	High-resolution enviromagnetic records of the last deglaciation from Dali Lake, Inner Mongolia. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 454, 1-11.	2.3	16

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37	Ferromagnetic resonance characterization of greigite (Fe <sub>3</sub> S <sub>4</sub> ), monoclinic pyrrhotite (Fe <sub>7</sub> S <sub>8</sub> ), and nonâ€interacting titanomagnetite (Fe <sub>3â€<i>x</i></sub> Ti <sub><i>x</i></sub> O <sub>4</sub> ). Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	15
38	Waiting for Forcot: Accelerating FORC Processing 100× Using a Fastâ€Fourierâ€Transform Algorithm. Geochemistry, Geophysics, Geosystems, 2019, 20, 6223-6233.	2.5	15
39	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
40	Can the magnetic susceptibility record of Chinese Red Clay sequence be used for palaeomonsoon reconstructions?. Geophysical Journal International, 2016, 204, 1421-1429.	2.4	13
41	Detrital remanent magnetization of single-crystal silicates with magnetic inclusions: constraints from deposition experiments. Geophysical Journal International, 2020, 224, 2001-2015.	2.4	11
42	A Generic 1D Forward Modeling and Inversion Algorithm for TEM Sounding with an Arbitrary Horizontal Loop. Pure and Applied Geophysics, 2016, 173, 2869-2883.	1.9	10
43	Magnetic mineral tracing of sediment provenance in the central Bengal Fan. Marine Geology, 2019, 415, 105955.	2.1	10
44	Progressive Dissolution of Titanomagnetite in Highâ€Temperature Hydrothermal Vents Dramatically Reduces Magnetization of Basaltic Ocean Crust. Geophysical Research Letters, 2020, 47, e2020GL087578.	4.0	10
45	ENIGMATIC X-RAY MAGNETIC CIRCULAR DICHROISM IN GREIGITE (Fe3S4). Canadian Mineralogist, 2012, 50, 667-674.	1.0	9
46	Seafloor Magnetism Under Hydrothermal Alteration: Insights From Magnetomineralogy and Magnetic Properties of the Southwest Indian Ridge Basalts. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	8
47	Timeâ€Asymmetric FORC Diagrams: A New Protocol for Visualizing Thermal Fluctuations and Distinguishing Magnetic Mineral Mixtures. Geochemistry, Geophysics, Geosystems, 2018, 19, 3056-3070.	2.5	7
48	Paleomagnetic Recording Efficiency of Sedimentary Magnetic Mineral Inclusions: Implications for Relative Paleointensity Determinations. Journal of Geophysical Research: Solid Earth, 2019, 124, 6267-6279.	3.4	7
49	Discovery of giant magnetofossils within and outside of the Palaeocene-Eocene Thermal Maximum in the North Atlantic. Earth and Planetary Science Letters, 2022, 584, 117417.	4.4	7
50	Multi-protocol palaeointensity determination from middle Brunhes Chron volcanics, Datong Volcanic Province, China. Physics of the Earth and Planetary Interiors, 2011, 187, 188-198.	1.9	6
51	Growth of flower-like CdSe dendrites from a BrÃ,nsted acid–base ionic liquid precursor. RSC Advances, 2012, 2, 5944.	3.6	6
52	Micromagnetic Calculations of the Effect of Magnetostatic Interactions on Isothermal Remanent Magnetization Curves: Implications for Magnetic Mineral Identification. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022335.	3.4	6
53	A long-term increasing aridification and cooling trend at the Chinese Loess Plateau during the Pliocene. Quaternary International, 2013, 306, 121-128.	1.5	5
54	Theory of stable multiâ€domain thermoviscous remanence based on repeated domainâ€wall jumps. Journal of Geophysical Research: Solid Earth, 2018, 123, 10,399.	3.4	5

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55	Bending and Collapse: Magnetic Recording Fidelity of Magnetofossils From Micromagnetic Simulation. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	4
56	Magnetic Biosignatures of Magnetosomal Greigite From Micromagnetic Calculation. Geophysical Research Letters, 2022, 49, .	4.0	4
57	Paleomagnetic Secular Variations During the Past 40,000 Years From the Bay of Bengal. Geochemistry, Geophysics, Geosystems, 2019, 20, 2559-2571.	2.5	2
58	Early Eocene to early Miocene magnetostratigraphic framework for IODP Expedition 371 (Tasman) Tj ETQq0 0 0	rgBT /Ove 1.2	lock 10 Tf 50

59	Rock Magnetic Signatures of Hydrothermal Mineralization in the Transâ€Atlantic Geotraverse (TAG) Hydrothermal Field. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	2
60	MagNet: Automated Magnetic Mineral Grain Morphometry Using Convolutional Neural Network. Geophysical Research Letters, 2022, 49, .	4.0	2
61	Experimental test of the cooling rate effect on blocking temperatures in stepwise thermal demagnetization. Geophysical Journal International, 2020, 224, 1116-1126.	2.4	1