Andrew P Roberts

List of Publications by Year
in descending order

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		12303	14702
272	19,273	69	127
papers	citations	h-index	g-index

279	279	279	11129
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterizing interactions in fine magnetic particle systems using first order reversal curves. Journal of Applied Physics, 1999, 85, 6660-6667.	1.1	852
2	First-order reversal curve diagrams: A new tool for characterizing the magnetic properties of natural samples. Journal of Geophysical Research, 2000, 105, 28461-28475.	3.3	830
3	Environmental magnetism: Principles and applications. Reviews of Geophysics, 2012, 50, .	9.0	491
4	Sea-level and deep-sea-temperature variability over the past 5.3 million years. Nature, 2014, 508, 477-482.	13.7	487
5	Wasp-waisted hysteresis loops: Mineral magnetic characteristics and discrimination of components in mixed magnetic systems. Journal of Geophysical Research, 1995, 100, 17909-17924.	3.3	486
6	Rapid coupling between ice volume and polar temperature over the past 150,000â€‰years. Nature, 2012, 491, 744-747.	13.7	477
7	Environmental magnetism: Past, present, and future. Journal of Geophysical Research, 1995, 100, 2175-2192.	3.3	460
8	Antarctic temperature and global sea level closely coupled over the past five glacial cycles. Nature Geoscience, 2009, 2, 500-504.	5.4	432
9	Magnetic properties of sedimentary greigite (Fe3S4). Earth and Planetary Science Letters, 1995, 134, 227-236.	1.8	338
10	Sea-level variability over five glacial cycles. Nature Communications, 2014, 5, 5076.	5.8	325
11	Three million years of monsoon variability over the northern Sahara. Climate Dynamics, 2003, 21, 689-698.	1.7	324
12	Magnetic properties of sedimentary greigite (Fe₃S₄): An update. Reviews of Geophysics, 2011, 49, .	9.0	318
13	Understanding fine magnetic particle systems through use of first-order reversal curve diagrams. Reviews of Geophysics, 2014, 52, 557-602.	9.0	310
14	Magnetic mineral diagenesis. Earth-Science Reviews, 2015, 151, 1-47.	4.0	296
15	Diagenetic formation of ferrimagnetic iron sulphide minerals in rapidly deposited marine sediments, South Island, New Zealand. Earth and Planetary Science Letters, 1993, 115, 257-273.	1.8	282
16	Orbitally induced oscillations in the East Antarctic ice sheet at the Oligocene/Miocene boundary. Nature, 2001, 413, 719-723.	13.7	222
17	Continental ice in Greenland during the Eocene and Oligocene. Nature, 2007, 446, 176-179.	13.7	217
18	Improvements in long-core measurement techniques: applications in palaeomagnetism and palaeoceanography. Geophysical Journal International, 1993, 114, 651-662.	1.0	216

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19	Why are geomagnetic excursions not always recorded in sediments? Constraints from post-depositional remanent magnetization lock-in modelling. Earth and Planetary Science Letters, 2004, 227, 345-359.	1.8	210
20	Dynamics of Green Sahara Periods and Their Role in Hominin Evolution. PLoS ONE, 2013, 8, e76514.	1.1	200
21	Reductive diagenesis, magnetite dissolution, greigite growth and paleomagnetic smoothing in marine sediments: A new view. Earth and Planetary Science Letters, 2009, 277, 223-235.	1.8	196
22	Timing of meltwater pulse 1a and climate responses to meltwater injections. Paleoceanography, 2006, 21, .	3.0	181
23	Volcanic ash layers illuminate the resilience of Neanderthals and early modern humans to natural hazards. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13532-13537.	3.3	180
24	Multiple mechanisms of remagnetization involving sedimentary greigite (Fe3S4). Earth and Planetary Science Letters, 2005, 231, 263-277.	1.8	176
25	What do the HIRM and Sâ€ratio really measure in environmental magnetism?. Geochemistry, Geophysics, Geosystems, 2007, 8, .	1.0	173
26	First-order reversal curve diagrams and thermal relaxation effects in magnetic particles. Geophysical Journal International, 2001, 145, 721-730.	1.0	170
27	An investigation of multi-domain hysteresis mechanisms using FORC diagrams. Physics of the Earth and Planetary Interiors, 2001, 126, 11-25.	0.7	167
28	A new concept for the paleoceanographic evolution of Heinrich event 1 in the North Atlantic. Quaternary Science Reviews, 2011, 30, 1047-1066.	1.4	158
29	Characterization of hematite (Î±-Fe2O3), goethite (Î±-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
30	A Critical Appraisal of the â€œDayâ€•Diagram. Journal of Geophysical Research: Solid Earth, 2018, 123, 2618-2644.	1.4	153
31	Geomagnetic excursions: Knowns and unknowns. Geophysical Research Letters, 2008, 35, .	1.5	152
32	Magnetite dissolution, diachronous greigite formation, and secondary magnetizations from pyrite oxidation: Unravelling complex magnetizations in Neogene marine sediments from New Zealand. Earth and Planetary Science Letters, 2006, 241, 119-137.	1.8	151
33	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.	1.8	150
34	Diagenetic formation of greigite and pyrrhotite in gas hydrate marine sedimentary systems. Earth and Planetary Science Letters, 2007, 261, 350-366.	1.8	148
35	Carbonâ€“sulfurâ€“iron relationships in sedimentary rocks from southwestern Taiwan: influence of geochemical environment on greigite and pyrrhotite formation. Chemical Geology, 2004, 203, 153-168.	1.4	145
36	Resolving the Origin of Pseudoâ€Single Domain Magnetic Behavior. Journal of Geophysical Research: Solid Earth, 2017, 122, 9534-9558.	1.4	145

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37	Searching for single domain magnetite in the â€œpseudoâ€•singleâ€•domainâ€•sedimentary haystack: Implications of biogenic magnetite preservation for sediment magnetism and relative paleointensity determinations. Journal of Geophysical Research, 2012, 117, .	3.3	143
38	Structural and magnetic studies on heavy-metal-adsorbing iron sulphide nanoparticles produced by sulphate-reducing bacteria. Journal of Magnetism and Magnetic Materials, 2000, 214, 13-30.	1.0	142
39	Bipolar seesaw control on last interglacial sea level. Nature, 2015, 522, 197-201.	13.7	131
40	Magnetostratigraphic calibration of Eoceneâ€“Oligocene dinoflagellate cyst biostratigraphy from the Norwegianâ€“Greenland Sea. Marine Geology, 2004, 204, 91-127.	0.9	112
41	Fundamental magnetic parameters from pure synthetic greigite (Fe₃S₄). Journal of Geophysical Research, 2008, 113, .	3.3	110
42	Magnetic paleointensity stratigraphy and high-resolution Quaternary geochronology: successes and future challenges. Quaternary Science Reviews, 2013, 61, 1-16.	1.4	110
43	Comparison between Holocene and Marine Isotope Stage-11 sea-level histories. Earth and Planetary Science Letters, 2010, 291, 97-105.	1.8	109
44	Controls on the East Asian monsoon during the last glacial cycle, based on comparison between Hulu Cave and polar ice-core records. Quaternary Science Reviews, 2009, 28, 3291-3302.	1.4	106
45	Contradictory magnetic polarities in sediments and variable timing of neoformation of authigenic greigite. Earth and Planetary Science Letters, 2001, 193, 1-12.	1.8	103
46	High-resolution analysis of early diagenetic effects on magnetic minerals in post-middle-Holocene continental shelf sediments from the Korea Strait. Journal of Geophysical Research, 2004, 109, .	3.3	103
47	Genomic expansion of magnetotactic bacteria reveals an early common origin of magnetotaxis with lineage-specific evolution. ISME Journal, 2018, 12, 1508-1519.	4.4	103
48	North Pacific response to millennial-scale changes in ocean circulation over the last 60 kyr. Paleoceanography, 2001, 16, 179-189.	3.0	99
49	A late diagenetic (syn-folding) magnetization carried by pyrrhotite: implications for paleomagnetic studies from magnetic iron sulphide-bearing sediments. Earth and Planetary Science Letters, 2002, 200, 371-386.	1.8	98
50	Authigenic or detrital origin of pyrrhotite in sediments?: Resolving a paleomagnetic conundrum. Earth and Planetary Science Letters, 2006, 241, 750-762.	1.8	97
51	The middle Eocene climatic optimum event in the Contessa Highway section, Umbrian Apennines, Italy. Bulletin of the Geological Society of America, 2007, 119, 413-427.	1.6	96
52	Sea-level and salinity fluctuations during the Paleoceneâ€“Eocene thermal maximum in Arctic Spitsbergen. Earth and Planetary Science Letters, 2011, 303, 97-107.	1.8	94
53	Geomagnetic field behavior during the Iceland Basin and Laschamp geomagnetic excursions: A simple transitional field geometry?. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	92
54	Post-depositional remanent magnetization lock-in and the location of the Matuyamaâ€“Brunhes geomagnetic reversal boundary in marine and Chinese loess sequences. Earth and Planetary Science Letters, 2008, 275, 102-110.	1.8	88

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55	The effect of low-temperature oxidation on large multi-domain magnetite. Geophysical Research Letters, 1994, 21, 757-760.	1.5	87
56	Environmental magnetic implications of Greigite (Fe3S4) Formation in a 3 m.y. lake sediment record from Butte Valley, northern California. Geophysical Research Letters, 1996, 23, 2859-2862.	1.5	87
57	A new proxy for bottom-water ventilation in the eastern Mediterranean based on diagenetically controlled magnetic properties of sapropel-bearing sediments. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 190, 221-242.	1.0	87
58	Antarctic records of precessionâ€paced insolationâ€driven warming during early Pleistocene Marine Isotope Stage 31. Geophysical Research Letters, 2008, 35, .	1.5	86
59	Late Mioceneâ€“Pliocene Asian monsoon intensification linked to Antarctic ice-sheet growth. Earth and Planetary Science Letters, 2016, 444, 75-87.	1.8	86
60	New biostratigraphic, magnetostratigraphic and isotopic insights into the Middle Eocene Climatic Optimum in low latitudes. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 297, 670-682.	1.0	85
61	Magnetic properties of pelagic marine carbonates. Earth-Science Reviews, 2013, 127, 111-139.	4.0	84
62	Differences between the last two glacial maxima and implications for ice-sheet, Î´18O, and sea-level reconstructions. Quaternary Science Reviews, 2017, 176, 1-28.	1.4	82
63	Mud volcanism on the Mediterranean Ridge: Initial results of Ocean Drilling Program Leg 160. Geology, 1996, 24, 239-242.	2.0	77
64	Apparent magnetic polarity reversals due to remagnetization resulting from late diagenetic growth of greigite from siderite. Geophysical Journal International, 2004, 160, 89-100.	1.0	77
65	Magnetobiostratigraphic chronology of the EoceneÂ–Oligocene transition in the CIROS-1 core, Victoria Land margin, Antarctica: Implications for Antarctic glacial history. Bulletin of the Geological Society of America, 1998, 110, 35-47.	1.6	74
66	Relative paleointensity of the geomagnetic field over the last 200,000 years from ODP Sites 883 and 884, North Pacific Ocean. Earth and Planetary Science Letters, 1997, 152, 11-23.	1.8	73
67	Post-depositional remanent magnetization lock-in for marine sediments deduced from 10Be and paleomagnetic records through the Matuyamaâ€“Brunhes boundary. Earth and Planetary Science Letters, 2011, 311, 39-52.	1.8	73
68	El NiÃ±oâ€“Southern Oscillation signal associated with middle Holocene climate change in intercorrelated terrestrial and marine sediment cores, North Island, New Zealand. Geology, 2004, 32, 653.	2.0	72
69	Magnetostratigraphic, lithostratigraphic and tephrostratigraphic constraints on Lower and Middle Pleistocene sea-level changes, Wanganui Basin, New Zealand. Earth and Planetary Science Letters, 1994, 121, 81-98.	1.8	71
70	Paleoclimate Variability in the Mediterranean and Red Sea Regions during the Last 500,000 Years. Current Anthropology, 2013, 54, S183-S201.	0.8	71
71	Distribution and mechanism of Neogene to present-day vertical axis rotations, Pacific-Australian Plate Boundary Zone, South Island, New Zealand. Journal of Geophysical Research, 1997, 102, 20447-20468.	3.3	69
72	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.	1.4	69

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73	Discrimination of biogenic and detrital magnetite through a double Verwey transition temperature. Journal of Geophysical Research: Solid Earth, 2016, 121, 3-14.	1.4	69
74	Formation of iron sulfide nodules during anaerobic oxidation of methane. Geochimica Et Cosmochimica Acta, 2007, 71, 5155-5167.	1.6	68
75	Magnetotactic bacterial response to Antarctic dust supply during the Palaeoceneâ€“Eocene thermal maximum. Earth and Planetary Science Letters, 2012, 333-334, 122-133.	1.8	67
76	A 2.14-Myr astronomically tuned record of relative geomagnetic paleointensity from the western Philippine Sea. Journal of Geophysical Research, 2003, 108, .	3.3	66
77	Normalised natural remanent magnetisation intensity during the last 240 000 years in piston cores from the central North Atlantic Ocean: geomagnetic field intensity or environmental signal?. Physics of the Earth and Planetary Interiors, 1995, 87, 213-229.	0.7	65
78	Diagenetic magnetic enhancement of sapropels from the eastern Mediterranean Sea. Marine Geology, 1999, 153, 103-116.	0.9	65
79	Paleogene and Cretaceous sediment cores from the Kilwa and Lindi areas of coastal Tanzania: Tanzania Drilling Project Sites 1â€“5. Journal of African Earth Sciences, 2004, 39, 25-62.	0.9	65
80	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.	1.4	65
81	Magnetic domain state diagnosis using hysteresis reversal curves. Journal of Geophysical Research: Solid Earth, 2017, 122, 4767-4789.	1.4	65
82	Middle Eocene to Late Oligocene Antarctic glaciation/deglaciation and Southern Ocean productivity. Paleoceanography, 2014, 29, 223-237.	3.0	64
83	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.	1.0	63
84	A protocol for variableâ€resolution firstâ€order reversal curve measurements. Geochemistry, Geophysics, Geosystems, 2015, 16, 1364-1377.	1.0	61
85	Signatures of Reductive Magnetic Mineral Diagenesis From Unmixing of Firstâ€Order Reversal Curves. Journal of Geophysical Research: Solid Earth, 2018, 123, 4500-4522.	1.4	61
86	Inter-laboratory calibration of low-field magnetic and anhysteretic susceptibility measurements. Physics of the Earth and Planetary Interiors, 2003, 138, 25-38.	0.7	60
87	The RESET project: constructing a European tephra lattice for refined synchronisation of environmental and archaeological events during the last c. 100Âka. Quaternary Science Reviews, 2015, 118, 1-17.	1.4	60
88	Magnetostratigraphy of the Fenghuoshan Group in the Hoh Xil Basin and its tectonic implications for Indiaâ€“Eurasia collision and Tibetan Plateau deformation. Earth and Planetary Science Letters, 2018, 486, 41-53.	1.8	59
89	Estimation of significance levels and confidence intervals for firstâ€order reversal curve distributions. Geochemistry, Geophysics, Geosystems, 2012, 13, .	1.0	57
90	Magnetostratigraphy of Chinese loessâ€“paleosol sequences. Earth-Science Reviews, 2015, 150, 139-167.	4.0	57

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91	Asynchronous Antarctic and Greenland ice-volume contributions to the last interglacial sea-level highstand. Nature Communications, 2019, 10, 5040.	5.8	57
92	Magnetite dissolution in siliceous sediments. Geochemistry, Geophysics, Geosystems, 2003, 4, .	1.0	56
93	Soil moisture balance and magnetic enhancement in loessâ€“paleosol sequences from the Tibetan Plateau and Chinese Loess Plateau. Earth and Planetary Science Letters, 2015, 409, 120-132.	1.8	56
94	An Improved Algorithm for Unmixing Firstâ€Order Reversal Curve Diagrams Using Principal Component Analysis. Geochemistry, Geophysics, Geosystems, 2018, 19, 1595-1610.	1.0	56
95	Coupled microbial bloom and oxygenation decline recorded by magnetofossils during the Palaeoceneâ€“Eocene Thermal Maximum. Nature Communications, 2018, 9, 4007.	5.8	56
96	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.	1.8	55
97	Magnetostratigraphic chronology of a late Eocene to early Miocene glacimarine succession from the Victoria Land Basin, Ross Sea, Antarctica. Global and Planetary Change, 2005, 45, 207-236.	1.6	54
98	Giant magnetofossils and hyperthermal events. Earth and Planetary Science Letters, 2012, 351-352, 258-269.	1.8	54
99	Glaciation across the Oligoceneâ€“Miocene boundary in southern McMurdo Sound, Antarctica: new chronology from the CIROS-1 drill hole. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 198, 113-130.	1.0	52
100	Increasing the efficiency of paleointensity analyses by selection of samples using first-order reversal curve diagrams. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	52
101	Characteristic low-temperature magnetic properties of aluminous goethite [Î±-(Fe, Al)OOH] explained. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	52
102	New constraints on the timing of sea level fluctuations during early to middle marine isotope stage 3. Paleoceanography, 2008, 23, .	3.0	52
103	Paleomagnetic determination of emplacement temperatures of pyroclastic deposits: an under-utilized tool. Bulletin of Volcanology, 2010, 72, 309-330.	1.1	52
104	Antarctic glacio-eustatic contributions to late Miocene Mediterranean desiccation and reflooding. Nature Communications, 2015, 6, 8765.	5.8	52
105	Onshoreâ€“offshore gradient in reductive early diagenesis in coastal marine sediments of the Ria de Vigo, Northwest Iberian Peninsula. Continental Shelf Research, 2011, 31, 433-447.	0.9	51
106	Characterizing magnetofossils from firstâ€order reversal curve (FORC) central ridge signatures. Geochemistry, Geophysics, Geosystems, 2014, 15, 2170-2179.	1.0	51
107	Magnetobiostratigraphic chronology and palaeoenvironmental history of Cenozoic sequences from ODP sites 1165 and 1166, Prydz Bay, Antarctica. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 198, 69-100.	1.0	50
108	Radioisotopic age constraints for Glacial Terminations IX and VII from aggradational sections of the Tiber River delta in Rome, Italy. Earth and Planetary Science Letters, 2007, 256, 61-80.	1.8	50

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109	Lowâ€temperature magnetic properties of pelagic carbonates: Oxidation of biogenic magnetite and identification of magnetosome chains. Journal of Geophysical Research: Solid Earth, 2013, 118, 6049-6065.	1.4	50
110	Title is missing!. Journal of Paleolimnology, 2000, 24, 125-149.	0.8	49
111	Eocene-Oligocene magnetobiochronology of ODP Sites 689 and 690, Maud Rise, Weddell Sea, Antarctica. Bulletin of the Geological Society of America, 2005, 117, 46.	1.6	49
112	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.	1.8	49
113	Global cooling and enhanced Eocene Asian mid-latitude interior aridity. Nature Communications, 2018, 9, 3026.	5.8	46
114	High-resolution magnetic analysis of sediment cores: Strengths, limitations and strategies for maximizing the value of long-core magnetic data. Physics of the Earth and Planetary Interiors, 2006, 156, 162-178.	0.7	44
115	Magnetic susceptibility of eastern Mediterranean marine sediments as a proxy for Saharan dust supply?. Marine Geology, 2008, 254, 224-229.	0.9	44
116	Lowâ€temperature magnetic properties of greigite (Fe₃S₄). Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	44
117	Atmospheric dust variability from Arabia and China over the last 500,000 years. Quaternary Science Reviews, 2011, 30, 3537-3541.	1.4	44
118	Quantifying magnetite magnetofossil contributions to sedimentary magnetizations. Earth and Planetary Science Letters, 2013, 382, 58-65.	1.8	44
119	Domain State Diagnosis in Rock Magnetism: Evaluation of Potential Alternatives to the Day Diagram. Journal of Geophysical Research: Solid Earth, 2019, 124, 5286-5314.	1.4	44
120	Orbital climate variability on the northeastern Tibetan Plateau across the Eoceneâ€“Oligocene transition. Nature Communications, 2020, 11, 5249.	5.8	44
121	Expanding magnetic organelle biogenesis in the domain Bacteria. Microbiome, 2020, 8, 152.	4.9	44
122	Marine magnetic anomalies: evidence that â€˜tiny wigglesâ€™ represent short-period geomagnetic polarity intervals. Earth and Planetary Science Letters, 2000, 183, 375-388.	1.8	42
123	Relative geomagnetic paleointensity from the Jaramillo Subchron to the Matuyama/Brunhes boundary as recorded in a Mediterranean piston core. Earth and Planetary Science Letters, 2002, 194, 327-341.	1.8	42
124	How does Chinese loess become magnetized?. Earth and Planetary Science Letters, 2010, 292, 112-122.	1.8	42
125	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.	1.4	42
126	Lack of correlation between paleoprecipitation and magnetic susceptibility of Chinese Loess/Paleosol Sequences. Geophysical Research Letters, 2001, 28, 4259-4262.	1.5	41

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127	Monsoon forcing, hydrodynamics of the Kuroshio Current, and tectonic effects on sedimentary carbon and sulfur cycling in the Okinawa Trough since 90 ka. Geophysical Research Letters, 2006, 33, .	1.5	41
128	A geological perspective on potential future sea-level rise. Scientific Reports, 2013, 3, 3461.	1.6	41
129	Rock magnetism of Lower/Middle Pleistocene marine sediments, Wanganui Basin, New Zealand. Geophysical Research Letters, 1993, 20, 839-842.	1.5	40
130	Quaternary climatic control of biogenic magnetite production and eolian dust input in cores from the Mediterranean Sea. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 190, 195-209.	1.0	39
131	A method for unmixing magnetic hysteresis loops. Journal of Geophysical Research, 2012, 117, .	3.3	38
132	Enhanced primary productivity and magnetotactic bacterial production in response to middle Eocene warming in the Neo-Tethys Ocean. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 414, 32-45.	1.0	37
133	Remanence acquisition efficiency in biogenic and detrital magnetite and recording of geomagnetic paleointensity. Geochemistry, Geophysics, Geosystems, 2017, 18, 1435-1450.	1.0	37
134	The Magnetic and Color Reflectance Properties of Hematite: From Earth to Mars. Reviews of Geophysics, 2022, 60, .	9.0	37
135	Paleomagnetic constraints on the tectonic rotation of the southern Hikurangi margin, New Zealand. New Zealand Journal of Geology, and Geophysics, 1992, 35, 311-323.	1.0	36
136	Magnetostratigraphic calibration of Southern Ocean diatom datums from the Eoceneâ€“Oligocene of Kerguelen Plateau (Ocean Drilling Program sites 744 and 748). Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 198, 145-168.	1.0	36
137	Firstâ€Order Reversal Curve (FORC) Diagrams. , 2007, , 266-272.		36
138	Environmental magnetic record of Antarctic palaeoclimate from Eocene/Oligocene glaciomarine sediments, Victoria Land Basin. Geophysical Journal International, 1998, 134, 653-662.	1.0	35
139	Rapid locking of tectonic magnetic fabrics in weakly deformed mudrocks. Tectonophysics, 2011, 507, 16-25.	0.9	35
140	Phylogenetic and Structural Identification of a Novel Magnetotactic Deltaproteobacteria Strain, WYHR-1, from a Freshwater Lake. Applied and Environmental Microbiology, 2019, 85, .	1.4	35
141	East Asian monsoon evolution since the late Miocene from the South China Sea. Earth and Planetary Science Letters, 2020, 530, 115960.	1.8	35
142	Two-stage mid-Brunhes climate transition and mid-Pleistocene human diversification. Earth-Science Reviews, 2020, 210, 103354.	4.0	35
143	Repeating waveform initiated by a 180-190 ka geomagnetic excursion in western North America: Implications for field behavior during polarity transitions and subsequent secular variation. Journal of Geophysical Research, 1994, 99, 24105-24119.	3.3	34
144	Integrated chronostratigraphic calibration of the Oligocene-Miocene boundary at 24.0 Â± 0.1 Ma from the CRP-2A drill core, Ross Sea, Antarctica. Geology, 2002, 30, 1043.	2.0	34

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145	Variable remanence acquisition efficiency in sediments containing biogenic and detrital magnetites: Implications for relative paleointensity signal recording. Geochemistry, Geophysics, Geosystems, 2014, 15, 2780-2796.	1.0	34
146	Testing the hypothesis of orbital (eccentricity) influence on Earthâ€™s magnetic field. Earth and Planetary Science Letters, 2003, 216, 187-192.	1.8	32
147	Assessing the timing of greigite formation and the reliability of the Upper Olduvai polarity transition record from the Crostolo River, Italy. Geophysical Research Letters, 2005, 32, .	1.5	32
148	Mechanism for enhanced eolian dust flux recorded in North Pacific Ocean sediments since 4.0 Ma: Aridity or humidity at dust source areas in the Asian interior?. Geology, 2020, 48, 77-81.	2.0	32
149	Bulletâ€Shaped Magnetite Biomineralization Within a Magnetotactic Deltaproteobacterium: Implications for Magnetofossil Identification. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005680.	1.3	32
150	Widespread remagnetizations and a new view of Neogene tectonic rotations within the Australiaâ€Pacific plate boundary zone, New Zealand. Journal of Geophysical Research, 2008, 113, .	3.3	31
151	Magnetotaxis as an Adaptation to Enable Bacterial Shuttling of Microbial Sulfur and Sulfur Cycling Across Aquatic Oxicâ€Anoxic Interfaces. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG006012.	1.3	31
152	Global warming-induced Asian hydrological climate transition across the Mioceneâ€“Pliocene boundary. Nature Communications, 2021, 12, 6935.	5.8	31
153	The Lowâ€Temperature Besnus Magnetic Transition: Signals Due to Monoclinic and Hexagonal Pyrrhotite. Geochemistry, Geophysics, Geosystems, 2018, 19, 3364-3375.	1.0	30
154	Hematite (Î±-Fe2O3) quantification in sedimentary magnetism: limitations of existing proxies and ways forward. Geoscience Letters, 2020, 7, .	1.3	30
155	Detecting missing beats in the Mediterranean climate rhythm from magnetic identification of oxidized sapropels (Ocean Drilling Program Leg 160). Physics of the Earth and Planetary Interiors, 2006, 156, 283-293.	0.7	29
156	Magnetic structure of greigite (Fe₃S₄) probed by neutron powder diffraction and polarized neutron diffraction. Journal of Geophysical Research, 2009, 114, .	3.3	29
157	Assessment of the usefulness of lithic clasts from pyroclastic deposits for paleointensity determination. Journal of Geophysical Research, 2010, 115, .	3.3	29
158	Analyzing paleomagnetic data: To anchor or not to anchor?. Journal of Geophysical Research: Solid Earth, 2016, 121, 7742-7753.	1.4	29
159	Sea level and deep-sea temperature reconstructions suggest quasi-stable states and critical transitions over the past 40 million years. Science Advances, 2021, 7, .	4.7	29
160	Magnetic characteristics of synthetic pseudoâ€singleâ€domain and multiâ€domain greigite (Fe₃S₄). Geophysical Research Letters, 2007, 34, .	1.5	28
161	Estimating the concentration of aluminumâ€substituted hematite and goethite using diffuse reflectance spectrometry and rock magnetism: Feasibility and limitations. Journal of Geophysical Research: Solid Earth, 2016, 121, 4180-4194.	1.4	28
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