Greig A Paterson

List of Publications by Year
in descending order

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54 papers	1,861 citations	304743 22 h-index	276875 41 g-index
59 all docs	59 docs citations	59 times ranked	1748 citing authors

#	Article	IF	Citations
1	The PINTÂdatabase: a definitive compilation of absolute palaeomagnetic intensity determinations since 4 billion years ago. Geophysical Journal International, 2022, 229, 522-545.	2.4	22
2	Bending and Collapse: Magnetic Recording Fidelity of Magnetofossils From Micromagnetic Simulation. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	4
3	Survival of the magnetotactic bacterium Magnetospirillum gryphiswaldense exposed to Earthâ€™s lower near space. Science Bulletin, 2022, 67, 1335-1339.	9.0	7
4	Reorganization of Atlantic Waters at sub-polar latitudes linked to deep-water overflow in both glacial and interglacial climate states. Climate of the Past, 2022, 18, 989-1009.	3.4	0
5	Paleomagnetic Field Intensity. Encyclopedia of Earth Sciences Series, 2021, , 1187-1193.	0.1	0
6	Remagnetization of Permian Emeishan basalts: Constraints on the timing of native copper mineralization in northeast Yunnan Province, China. Frontiers in Earth Science, 2021, 8, .	1.8	0
7	Improvements to the Shaw-Type Absolute Palaeointensity Method. Frontiers in Earth Science, 2021, 9, .	1.8	6
8	On the origin of microbial magnetoreception. National Science Review, 2020, 7, 472-479.	9.5	46
9	Mapping hydrocarbon charge-points in the Wessex Basin using seismic, geochemistry and mineral magnetics. Marine and Petroleum Geology, 2020, 111, 510-528.	3.3	12
10	Expanding magnetic organelle biogenesis in the domain Bacteria. Microbiome, 2020, 8, 152.	11.1	44
11	The Potential of Marine Ferromanganese Nodules From Eastern Pacific as Recorders of Earth's Magnetic Field Changes During the Past 4.7ÂMyr: A Geochronological Study by Magnetic Scanning and Authigenic ¹⁰Be/⁹Be Dating. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018639.	3.4	12
12	Paleointensity.org: An Online, Open Source, Application for the Interpretation of Paleointensity Data. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008791.	2.5	14
13	Experimental test of the cooling rate effect on blocking temperatures in stepwise thermal demagnetization. Geophysical Journal International, 2020, 224, 1116-1126.	2.4	1
14	Detrital remanent magnetization of single-crystal silicates with magnetic inclusions: constraints from deposition experiments. Geophysical Journal International, 2020, 224, 2001-2015.	2.4	11
15	An ultra-low magnetic field thermal demagnetizer for high-precision paleomagnetism. Earth, Planets and Space, 2020, 72, .	2.5	13
16	Palaeomagnetic Field Intensity. Encyclopedia of Earth Sciences Series, 2020, , 1-7.	0.1	0
17	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
18	Analysis of an Updated Paleointensity Database (Q_{PI}â€PINT) for 65â€“200 Ma: Implications for the Longâ€Term History of Dipole Moment Through the Mesozoic. Journal of Geophysical Research: Solid Earth, 2019, 124, 9999-10022.	3.4	42

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19	Editorial: The Evolving Geomagnetic Field. Frontiers in Earth Science, 2019, 7, .	1.8	0
20	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
21	Measuring, Processing, and Analyzing Hysteresis Data. Geochemistry, Geophysics, Geosystems, 2018, 19, 1925-1945.	2.5	64
22	Origin of microbial biomineralization and magnetotaxis during the Archean. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2171-2176.	7.1	98
23	Magnetic domain state diagnosis using hysteresis reversal curves. Journal of Geophysical Research: Solid Earth, 2017, 122, 4767-4789.	3.4	65
24	Reply to Wang and Chen: An ancient origin of magnetotactic bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5019-E5020.	7.1	3
25	Bulk magnetic domain stability controls paleointensity fidelity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13120-13125.	7.1	23
26	Experimental test of the heating and cooling rate effect on blocking temperatures. Geophysical Journal International, 2017, 210, 255-269.	2.4	4
27	Recent Advances in Chinese Archeomagnetism. Frontiers in Earth Science, 2017, 5, .	1.8	10
28	High-resolution enviromagnetic records of the last deglaciation from Dali Lake, Inner Mongolia. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 454, 1-11.	2.3	16
29	The pseudo-Thellier palaeointensity method: new calibration and uncertainty estimates. Geophysical Journal International, 2016, 207, 1596-1608.	2.4	30
30	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
31	Clay mineralogy indicates a mildly warm and humid living environment for the Miocene hominoid from the Zhaotong Basin, Yunnan, China. Scientific Reports, 2016, 6, 20012.	3.3	22
32	Structural control on the shape of intrusions in the Koktokay ore district, Chinese Altai, north western China. Journal of Structural Geology, 2016, 83, 85-102.	2.3	4
33	Magnetostratigraphic evidence for deep-sea erosion on the Pacific Plate, south of Mariana Trench, since the middle Pleistocene: potential constraints for Antarctic bottom water circulation. International Geology Review, 2016, 58, 49-57.	2.1	12
34	New methods for unmixing sediment grain size data. Geochemistry, Geophysics, Geosystems, 2015, 16, 4494-4506.	2.5	241
35	Determining the magnetic attempt time Ï„₀, its temperature dependence, and the grain size distribution from magnetic viscosity measurements. Journal of Geophysical Research: Solid Earth, 2015, 120, 7322-7336.	3.4	13
36	Insolation driven biomagnetic response to the Holocene Warm Period in semi-arid East Asia. Scientific Reports, 2015, 5, 8001.	3.3	35

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37	Thellier-type paleointensity data from multidomain specimens. Physics of the Earth and Planetary Interiors, 2015, 245, 117-133.	1.9	35
38	Palaeomagnetic field intensity variations suggest Mesoproterozoic inner-core nucleation. Nature, 2015, 526, 245-248.	27.8	162
39	The necessity of data availability in maintaining the value and longevity of paleointensity results. Frontiers in Earth Science, 2014, 2, .	1.8	0
40	On improving the selection of Thellier-type paleointensity data. Geochemistry, Geophysics, Geosystems, 2014, 15, 1180-1192.	2.5	154
41	The effects of secondary mineral formation on Coe-type paleointensity determinations: Theory and simulation. Geochemistry, Geophysics, Geosystems, 2014, 15, 1215-1234.	2.5	9
42	Tectonic and sedimentary evolution of the late Mioceneâ€“Pleistocene Dali Basin in the southeast margin of the Tibetan Plateau: Evidences from anisotropy of magnetic susceptibility and rock magnetic data. Tectonophysics, 2014, 629, 362-377.	2.2	20
43	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
44	The fidelity of paleomagnetic records carried by magnetosome chains. Earth and Planetary Science Letters, 2013, 383, 82-91.	4.4	22
45	The effects of anisotropic and non-linear thermoremanent magnetizations on Thellier-type paleointensity data. Geophysical Journal International, 2013, 193, 694-710.	2.4	18
46	Towards the robust selection of Thellierâ€type paleointensity data: The influence of experimental noise. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	22
47	A new mechanism for the magnetic enhancement of hematite during heating: the role of clay minerals. Studia Geophysica Et Geodaetica, 2012, 56, 845-860.	0.5	43
48	A Preisach method for estimating absolute paleofield intensity under the constraint of using only isothermal measurements: 2. Experimental testing. Journal of Geophysical Research, 2011, 116, .	3.3	20
49	A simple test for the presence of multidomain behavior during paleointensity experiments. Journal of Geophysical Research, 2011, 116, .	3.3	76
50	Paleomagnetic determination of emplacement temperatures of pyroclastic deposits: an under-utilized tool. Bulletin of Volcanology, 2010, 72, 309-330.	3.0	52
51	Assessment of the usefulness of lithic clasts from pyroclastic deposits for paleointensity determination. Journal of Geophysical Research, 2010, 115, .	3.3	29
52	Deriving confidence in paleointensity estimates. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	28
53	Configurational anisotropy in single-domain and pseudosingle-domain grains of magnetite. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	31
54	A new set of qualitative reliability criteria to aid inferences on palaeomagnetic dipole moment variations through geological time. Frontiers in Earth Science, 0, 2, .	1.8	64