

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	New methods for unmixing sediment grain size data. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4494-4506.	2.5	241
2	Palaeomagnetic field intensity variations suggest Mesoproterozoic inner-core nucleation. <i>Nature</i> , 2015, 526, 245-248.	27.8	162
3	On improving the selection of Thellier-type paleointensity data. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1180-1192.	2.5	154
4	Genomic expansion of magnetotactic bacteria reveals an early common origin of magnetotaxis with lineage-specific evolution. <i>ISME Journal</i> , 2018, 12, 1508-1519.	9.8	103
5	Origin of microbial biomineralization and magnetotaxis during the Archean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2171-2176.	7.1	98
6	A simple test for the presence of multidomain behavior during paleointensity experiments. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	76
7	A 500,000 year record of Indian summer monsoon dynamics recorded by eastern equatorial Indian Ocean upper water-column structure. <i>Quaternary Science Reviews</i> , 2013, 77, 167-180.	3.0	69
8	Magnetic domain state diagnosis using hysteresis reversal curves. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4767-4789.	3.4	65
9	A new set of qualitative reliability criteria to aid inferences on palaeomagnetic dipole moment variations through geological time. <i>Frontiers in Earth Science</i> , 0, 2, .	1.8	64
10	Measuring, Processing, and Analyzing Hysteresis Data. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1925-1945.	2.5	64
11	Paleomagnetic determination of emplacement temperatures of pyroclastic deposits: an under-utilized tool. <i>Bulletin of Volcanology</i> , 2010, 72, 309-330.	3.0	52
12	On the origin of microbial magnetoreception. <i>National Science Review</i> , 2020, 7, 472-479.	9.5	46
13	Expanding magnetic organelle biogenesis in the domain Bacteria. <i>Microbiome</i> , 2020, 8, 152.	11.1	44
14	A new mechanism for the magnetic enhancement of hematite during heating: the role of clay minerals. <i>Studia Geophysica Et Geodaetica</i> , 2012, 56, 845-860.	0.5	43
15	Analysis of an Updated Paleointensity Database (Q_{PI} -PINT) for 65–200 Ma: Implications for the Long-Term History of Dipole Moment Through the Mesozoic. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 9999-10022.	3.4	42
16	Insolation driven biomagnetic response to the Holocene Warm Period in semi-arid East Asia. <i>Scientific Reports</i> , 2015, 5, 8001.	3.3	35
17	Thellier-type paleointensity data from multidomain specimens. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 245, 117-133.	1.9	35
18	Configurational anisotropy in single-domain and pseudosingle-domain grains of magnetite. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	31

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19	The pseudo-Thellier palaeointensity method: new calibration and uncertainty estimates. <i>Geophysical Journal International</i> , 2016, 207, 1596-1608.	2.4	30
20	Assessment of the usefulness of lithic clasts from pyroclastic deposits for paleointensity determination. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	29
21	Deriving confidence in paleointensity estimates. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	28
22	Bulk magnetic domain stability controls paleointensity fidelity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13120-13125.	7.1	23
23	Towards the robust selection of Thellier-type paleointensity data: The influence of experimental noise. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	22
24	The fidelity of paleomagnetic records carried by magnetosome chains. <i>Earth and Planetary Science Letters</i> , 2013, 383, 82-91.	4.4	22
25	Asian monsoon modulation of nonsteady state diagenesis in hemipelagic marine sediments offshore of Japan. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4383-4398.	2.5	22
26	Clay mineralogy indicates a mildly warm and humid living environment for the Miocene hominoid from the Zhaotong Basin, Yunnan, China. <i>Scientific Reports</i> , 2016, 6, 20012.	3.3	22
27	The PINT database: a definitive compilation of absolute palaeomagnetic intensity determinations since 4 billion years ago. <i>Geophysical Journal International</i> , 2022, 229, 522-545.	2.4	22
28	A Preisach method for estimating absolute paleofield intensity under the constraint of using only isothermal measurements: 2. Experimental testing. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	20
29	Tectonic and sedimentary evolution of the late Miocene-Pleistocene Dali Basin in the southeast margin of the Tibetan Plateau: Evidences from anisotropy of magnetic susceptibility and rock magnetic data. <i>Tectonophysics</i> , 2014, 629, 362-377.	2.2	20
30	The effects of anisotropic and non-linear thermoremanent magnetizations on Thellier-type paleointensity data. <i>Geophysical Journal International</i> , 2013, 193, 694-710.	2.4	18
31	High-resolution enviromagnetic records of the last deglaciation from Dali Lake, Inner Mongolia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 454, 1-11.	2.3	16
32	Paleointensity.org: An Online, Open Source, Application for the Interpretation of Paleointensity Data. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008791.	2.5	14
33	Determining the magnetic attempt time τ_0 , its temperature dependence, and the grain size distribution from magnetic viscosity measurements. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7322-7336.	3.4	13
34	An ultra-low magnetic field thermal demagnetizer for high-precision paleomagnetism. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	13
35	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. <i>International Geology Review</i> , 2016, 58, 49-57.	2.1	12
36	Mapping hydrocarbon charge-points in the Wessex Basin using seismic, geochemistry and mineral magnetics. <i>Marine and Petroleum Geology</i> , 2020, 111, 510-528.	3.3	12

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37	The Potential of Marine Ferromanganese Nodules From Eastern Pacific as Recorders of Earth's Magnetic Field Changes During the Past 4.7 Myr: A Geochronological Study by Magnetic Scanning and Authigenic $^{10}\text{Be}/^{9}\text{Be}$ Dating. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018639.	3.4	12
38	Detrital remanent magnetization of single-crystal silicates with magnetic inclusions: constraints from deposition experiments. <i>Geophysical Journal International</i> , 2020, 224, 2001-2015.	2.4	11
39	Recent Advances in Chinese Archeomagnetism. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	10
40	The effects of secondary mineral formation on Coe-type paleointensity determinations: Theory and simulation. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1215-1234.	2.5	9
41	Paleomagnetic Recording Efficiency of Sedimentary Magnetic Mineral Inclusions: Implications for Relative Paleointensity Determinations. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 6267-6279.	3.4	7
42	Survival of the magnetotactic bacterium <i>Magnetospirillum gryphiswaldense</i> exposed to Earth's lower near space. <i>Science Bulletin</i> , 2022, 67, 1335-1339.	9.0	7
43	Improvements to the Shaw-Type Absolute Palaeointensity Method. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	6
44	Structural control on the shape of intrusions in the Koktokay ore district, Chinese Altai, north western China. <i>Journal of Structural Geology</i> , 2016, 83, 85-102.	2.3	4
45	Experimental test of the heating and cooling rate effect on blocking temperatures. <i>Geophysical Journal International</i> , 2017, 210, 255-269.	2.4	4
46	Bending and Collapse: Magnetic Recording Fidelity of Magnetofossils From Micromagnetic Simulation. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	4
47	Reply to Wang and Chen: An ancient origin of magnetotactic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5019-E5020.	7.1	3
48	Experimental test of the cooling rate effect on blocking temperatures in stepwise thermal demagnetization. <i>Geophysical Journal International</i> , 2020, 224, 1116-1126.	2.4	1
49	The necessity of data availability in maintaining the value and longevity of paleointensity results. <i>Frontiers in Earth Science</i> , 2014, 2, .	1.8	0
50	Editorial: The Evolving Geomagnetic Field. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	0
51	Paleomagnetic Field Intensity. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1187-1193.	0.1	0
52	Remagnetization of Permian Emeishan basalts: Constraints on the timing of native copper mineralization in northeast Yunnan Province, China. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	0
53	Palaeomagnetic Field Intensity. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-7.	0.1	0
54	Reorganization of Atlantic Waters at sub-polar latitudes linked to deep-water overflow in both glacial and interglacial climate states. <i>Climate of the Past</i> , 2022, 18, 989-1009.	3.4	0