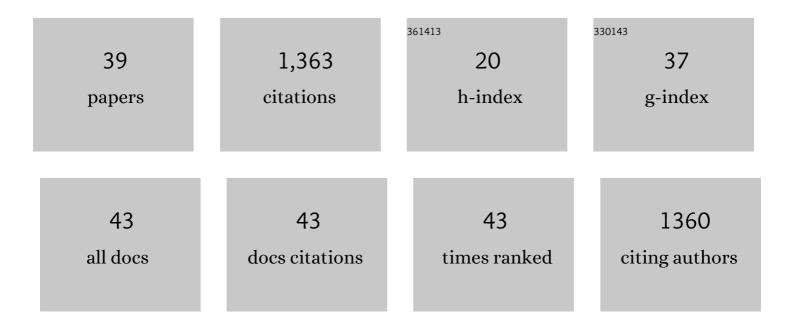
Wyn Williams

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Bending and Collapse: Magnetic Recording Fidelity of Magnetofossils From Micromagnetic Simulation. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	4
2	Understanding Nonideal Paleointensity Recording in Igneous Rocks: Insights From Aging Experiments on Lava Samples and the Causes and Consequences of "Fragile―Curvature in Arai Plots. Geochemistry, Geophysics, Geosystems, 2021, 22, .	2.5	15
3	Models of Maghematization: Observational Evidence in Support of a Magnetic Unstable Zone. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009504.	2.5	2
4	Estimating the Effect of Cooling Rate on the Acquisition of Magnetic Remanence. Geophysical Research Letters, 2021, 48, e2021GL095284.	4.0	4
5	Thermomagnetic recording fidelity of nanometer-sized iron and implications for planetary magnetism. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1984-1991.	7.1	21
6	From Nano to Micro: Evolution of Magnetic Domain Structures in Multidomain Magnetite. Geochemistry, Geophysics, Geosystems, 2019, 20, 2907-2918.	2.5	20
7	Secondary magnetite in ancient zircon precludes analysis of a Hadean geodynamo. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 407-412.	7.1	24
8	MERRILL: Micromagnetic Earth Related Robust Interpreted Language Laboratory. Geochemistry, Geophysics, Geosystems, 2018, 19, 1080-1106.	2.5	47
9	The magnetic structure and palaeomagnetic recording fidelity of sub-micron greigite (Fe3S4). Earth and Planetary Science Letters, 2018, 483, 76-89.	4.4	15
10	Magnetic vortex effects on first-order reversal curve (FORC) diagrams for greigite dispersions. Earth and Planetary Science Letters, 2018, 501, 103-111.	4.4	21
11	Magnetic Vortex States in Small Octahedral Particles of Intermediate Titanomagnetite. Geochemistry, Geophysics, Geosystems, 2018, 19, 3071-3083.	2.5	5
12	Stability of equidimensional pseudo–single-domain magnetite over billion-year timescales. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10356-10360.	7.1	58
13	Resolving the Origin of Pseudo‣ingle Domain Magnetic Behavior. Journal of Geophysical Research: Solid Earth, 2017, 122, 9534-9558.	3.4	145
14	Direct visualization of the thermomagnetic behavior of pseudo–single-domain magnetite particles. Science Advances, 2016, 2, e1501801.	10.3	52
15	Multi-scale three-dimensional characterization of iron particles in dusty olivine: Implications for paleomagnetism of chondritic meteorites. American Mineralogist, 2016, 101, 2070-2084.	1.9	35
16	Direct observation of the thermal demagnetization of magnetic vortex structures in nonideal magnetite recorders. Geophysical Research Letters, 2016, 43, 8426-8434.	4.0	31
17	Effect of maghemization on the magnetic properties of nonstoichiometric pseudoâ€ s ingleâ€domain magnetite particles. Geochemistry, Geophysics, Geosystems, 2015, 16, 2969-2979.	2.5	12
18	Critical single-domain grain sizes in elongated iron particles: implications for meteoritic and lunar magnetism. Geophysical Journal International, 2015, 202, 578-583.	2.4	31

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19	Effects of the coreâ€shell structure on the magnetic properties of partially oxidized magnetite grains: Experimental and micromagnetic investigations. Geochemistry, Geophysics, Geosystems, 2014, 15, 2021-2038.	2.5	31
20	Observing thermomagnetic stability of nonideal magnetite particles: Good paleomagnetic recorders?. Geophysical Research Letters, 2014, 41, 7041-7047.	4.0	26
21	Magnetic characterization of synthetic titanomagnetites: Quantifying the recording fidelity of ideal synthetic analogs. Geochemistry, Geophysics, Geosystems, 2014, 15, 161-175.	2.5	11
22	Paleomagnetic recording fidelity of nonideal magnetic systems. Geochemistry, Geophysics, Geosystems, 2014, 15, 2254-2261.	2.5	6
23	Correlating biodegradation to magnetization in oil bearing sedimentary rocks. Geochimica Et Cosmochimica Acta, 2013, 112, 146-165.	3.9	25
24	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
25	A strong angular dependence of magnetic properties of magnetosome chains: Implications for rock magnetism and paleomagnetism. Geochemistry, Geophysics, Geosystems, 2013, 14, 3887-3907.	2.5	34
26	A micromagnetic investigation of magnetite grains in the form of Platonic polyhedra with surface roughness. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	11
27	Room- and low-temperature magnetic properties of 2-D magnetite particle arrays. Geophysical Journal International, 2011, 185, 167-180.	2.4	8
28	Critical superparamagnetic/single-domain grain sizes in interacting magnetite particles: implications for magnetosome crystals. Journal of the Royal Society Interface, 2009, 6, 1207-1212.	3.4	122
29	Nanofabrication of twoâ€dimensional arrays of magnetite particles for fundamental rock magnetic studies. Journal of Geophysical Research, 2009, 114, .	3.3	14
30	Very high resolution etching of magnetic nanostructures in organic gases. Microelectronic Engineering, 2008, 85, 988-991.	2.4	12
31	Controlled cobalt doping of magnetosomes in vivo. Nature Nanotechnology, 2008, 3, 158-162.	31.5	142
32	Low-temperature viscous magnetization of multidomain magnetite: Evidence for disaccommodation contribution. Journal of Magnetism and Magnetic Materials, 2006, 307, 113-119.	2.3	10
33	Influence of magnetostatic interactions on first-order-reversal-curve (FORC) diagrams: a micromagnetic approach. Geophysical Journal International, 2004, 158, 888-897.	2.4	106
34	Micromagnetic modeling of first-order reversal curve (FORC) diagrams for single-domain and pseudo-single-domain magnetite. Earth and Planetary Science Letters, 2003, 213, 375-390.	4.4	49
35	Magnetic force microscopy imaging of domain walls in magnetite. Geophysical Journal International, 1992, 111, 417-423.	2.4	36
36	Some effects of grain shape and varying external magnetic fields on the magnetic structure of small grains of magnetite. Physics of the Earth and Planetary Interiors, 1990, 65, 1-14.	1.9	44

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37	Note on temperature dependence of exchange constant in magnetite. Geophysical Research Letters, 1988, 15, 184-187.	4.0	77
38	Thermal cleaning of viscous magnetic moments. Geophysical Research Letters, 1988, 15, 1089-1092.	4.0	17
39	Cooling rate effects in the magnetization of single-domain grains Journal of Geomagnetism and Geoelectricity, 1988, 40, 729-737.	0.9	21