

Richard Harrison

List of Publications by Year in descending order

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136
papers

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81743

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149
times ranked

5073
citing authors

#	ARTICLE	IF	CITATIONS
1	FORCinel: An improved algorithm for calculating first-order reversal curve distributions using locally weighted regression smoothing. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	584
2	Lamellar magnetism in the haematite-ilmenite series as an explanation for strong remanent magnetization. <i>Nature</i> , 2002, 418, 517-520.	13.7	207
3	Thermodynamics and kinetics of cation ordering in $MgAl_2O_4$ spinel up to 1600 degrees C from in situ neutron diffraction. <i>American Mineralogist</i> , 1999, 84, 299-310.	0.9	195
4	Direct imaging of nanoscale magnetic interactions in minerals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16556-16561.	3.3	165
5	Vortex ferroelectric domains. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 342201.	0.7	155
6	Resolving the Origin of Pseudo-Single Domain Magnetic Behavior. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9534-9558.	1.4	145
7	Dynamical excitation and anelastic relaxation of ferroelastic domain walls in $LaAlO_3$. <i>Physical Review B</i> , 2004, 69, .	1.1	137
8	Solar nebula magnetic fields recorded in the Semarkona meteorite. <i>Science</i> , 2014, 346, 1089-1092.	6.0	130
9	The influence of transformation twins on the seismic-frequency elastic and anelastic properties of perovskite: dynamical mechanical analysis of single crystal $LaAlO_3$. <i>Physics of the Earth and Planetary Interiors</i> , 2002, 134, 253-272.	0.7	124
10	Dipolar Magnetism in Ordered and Disordered Low-Dimensional Nanoparticle Assemblies. <i>Scientific Reports</i> , 2013, 3, 1234.	1.6	120
11	Effect of chemical substitution on the Néel temperature of multiferroic $BiFeO_3$. <i>Physical Review B</i> , 2009, 79, .	1.1	111
12	Off-axis electron holography of magnetic nanowires and chains, rings, and planar arrays of magnetic nanoparticles. <i>Microscopy Research and Technique</i> , 2004, 64, 390-402.	1.2	106
13	The temperature dependence of the cation distribution in synthetic hercynite ($FeAl_2O_4$) from in-situ neutron structure refinements. <i>American Mineralogist</i> , 1998, 83, 1092-1099.	0.9	100
14	Application of real-time, stroboscopic x-ray diffraction with dynamical mechanical analysis to characterize the motion of ferroelastic domain walls. <i>Journal of Applied Physics</i> , 2004, 95, 1706-1717.	1.1	100
15	Nanoscale haematite-ilmenite lamellae in massive ilmenite rock: an example of 'lamellar magnetism' with implications for planetary magnetic anomalies. <i>Geophysical Journal International</i> , 2002, 151, 890-912.	1.0	98
16	Nature and origin of lamellar magnetism in the hematite-ilmenite series. <i>American Mineralogist</i> , 2004, 89, 725-747.	0.9	89
17	Effect of fine-scale microstructures in titanohematite on the acquisition and stability of natural remanent magnetization in granulite facies metamorphic rocks, southwest Sweden: Implications for crustal magnetism. <i>Journal of Geophysical Research</i> , 2001, 106, 30523-30546.	3.3	81
18	The effect of transformation twins on the seismic-frequency mechanical properties of polycrystalline $CaSrTi_3$ perovskite. <i>American Mineralogist</i> , 2003, 88, 574-582.	0.9	81

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19	Determination of the mechanism of cation ordering in magnesioferrite (MgFe ₂ O ₄) from the time- and temperature-dependence of magnetic susceptibility. <i>Physics and Chemistry of Minerals</i> , 1999, 26, 322-332.	0.3	74
20	Magnetic exchange bias of more than 1 Tesla in a natural mineral intergrowth. <i>Nature Nanotechnology</i> , 2007, 2, 631-634.	15.6	74
21	The noise of the needle: Avalanches of a single progressing needle domain in LaAlO ₃ . <i>Applied Physics Letters</i> , 2010, 97, .	1.5	70
22	Long-lived magnetism from solidification-driven convection on the pallasite parent body. <i>Nature</i> , 2015, 517, 472-475.	13.7	68
23	In-situ study of the <i>R</i> ₃ ... to <i>R</i> ₃ ... <i>c</i> phase transition in the ilmenite-hematite solid solution using time-of-flight neutron powder diffraction. <i>American Mineralogist</i> , 2000, 85, 194-205.	0.9	62
24	Signatures of Reductive Magnetic Mineral Diagenesis From Unmixing of First-Order Reversal Curves. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4500-4522.	1.4	61
25	The Vortex State in Geologic Materials: A Micromagnetic Perspective. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7285-7304.	1.4	59
26	Magnetic induction mapping of magnetite chains in magnetotactic bacteria at room temperature and close to the Verwey transition using electron holography. <i>Journal of Physics: Conference Series</i> , 2005, 17, 108-121.	0.3	57
27	FORCulator: A micromagnetic tool for simulating first-order reversal curve diagrams. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4671-4691.	1.0	57
28	Magnetic unmixing of first-order reversal curve diagrams using principal component analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2900-2915.	1.0	57
29	An Improved Algorithm for Unmixing First-Order Reversal Curve Diagrams Using Principal Component Analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1595-1610.	1.0	56
30	Coupled microbial bloom and oxygenation decline recorded by magnetofossils during the Palaeocene-Eocene Thermal Maximum. <i>Nature Communications</i> , 2018, 9, 4007.	5.8	56
31	Determination of olivine cooling rates from metal-cation ordering. <i>Nature</i> , 1996, 381, 407-409.	13.7	54
32	Thermodynamics of the <i>R</i> ₃ ... to <i>R</i> ₃ ... <i>c</i> phase transition in the ilmenite-hematite solid solution. <i>American Mineralogist</i> , 2000, 85, 1694-1705.	0.9	54
33	The Magnetic Properties and Crystal Chemistry of Oxide Spinel Solid Solutions. <i>Surveys in Geophysics</i> , 1998, 19, 461-520.	2.1	52
34	Short- and long-range ordering in the ilmenite-hematite solid solution. <i>Physics and Chemistry of Minerals</i> , 2001, 28, 399-412.	0.3	50
35	Effects of internal mineral structures on the magnetic remanence of silicate-hosted titanomagnetite inclusions: An electron holography study. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	50
36	Magnetic properties of the magnetite-spinel solid solution; Curie temperatures, magnetic susceptibilities, and cation ordering. <i>American Mineralogist</i> , 1996, 81, 375-384.	0.9	48

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37	Direct observation of ferrimagnetic/ferroelastic domain interactions in magnetite below the Verwey transition. <i>Earth and Planetary Science Letters</i> , 2010, 297, 10-17.	1.8	48
38	Magnetic record of deglaciation using FORC-PCA, sortable-silt grain size, and magnetic excursion at 26 ka, from the Rockall Trough (NE Atlantic). <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1823-1841.	1.0	46
39	Mineral Magnetism: Providing New Insights into Geoscience Processes. <i>Elements</i> , 2009, 5, 209-215.	0.5	44
40	Domain State Diagnosis in Rock Magnetism: Evaluation of Potential Alternatives to the Day Diagram. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 5286-5314.	1.4	44
41	A revised phase diagram for the bornite-digenite join from in situ neutron diffraction and DSC experiments. <i>Mineralogical Magazine</i> , 2000, 64, 213-231.	0.6	38
42	Nanomagnetic intergrowths in Fe-Ni meteoritic metal: The potential for time-resolved records of planetesimal dynamo fields. <i>Earth and Planetary Science Letters</i> , 2014, 388, 237-248.	1.8	38
43	Nanomagnetic properties of the meteorite cloudy zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11436-E11445.	3.3	36
44	Ferrimagnetic/ferroelastic domain interactions in magnetite below the Verwey transition. Part I: electron holography and Lorentz microscopy. <i>Phase Transitions</i> , 2013, 86, 67-87.	0.6	35
45	Multi-scale three-dimensional characterization of iron particles in dusty olivine: Implications for paleomagnetism of chondritic meteorites. <i>American Mineralogist</i> , 2016, 101, 2070-2084.	0.9	35
46	Microstructure and magnetism in the ilmenite-hematite solid solution: A Monte Carlo simulation study. <i>American Mineralogist</i> , 2006, 91, 1006-1024.	0.9	34
47	Low-temperature domain wall pinning in titanomagnetite: Quantitative modeling of multidomain first-order reversal curve diagrams and AC susceptibility. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	34
48	Mineral magnetism of dusty olivine: A credible recorder of pre-accretionary remanence. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	34
49	Ferroic switching, avalanches, and the Larkin length: Needle domains in LaAlO ₃ . <i>Applied Physics Letters</i> , 2011, 99, 151915.	1.5	34
50	Paleomagnetic evidence for dynamo activity driven by inward crystallisation of a metallic asteroid. <i>Earth and Planetary Science Letters</i> , 2017, 472, 152-163.	1.8	34
51	Effect of transformation twins on the anelastic behavior of polycrystalline Ca _{1-x} Sr _x TiO ₃ and Sr _x Ba _{1-x} SnO ₃ perovskite in relation to the seismic properties of Earth's mantle perovskite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 442, 199-203.	2.6	33
52	Evaluating the paleomagnetic potential of single zircon crystals using the Bishop Tuff. <i>Earth and Planetary Science Letters</i> , 2017, 458, 1-13.	1.8	33
53	An investigation of the phase transitions in bornite (Cu ₅ FeS ₄) using neutron diffraction and differential scanning calorimetry. <i>American Mineralogist</i> , 1998, 83, 1231-1239.	0.9	31
54	Phase transition behaviour and equilibrium phase relations in the fast-ion conductor system Na ₃ PO ₄ -Na ₂ SO ₄ . <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3252-3259.	1.3	31

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55	Comparison and calibration of nonheating paleointensity methods: A case study using dusty olivine. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2143-2158.	1.0	31
56	Domain wall pinning and dislocations: Investigating magnetite deformed under conditions analogous to nature using transmission electron microscopy. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 1415-1430.	1.4	31
57	Low-temperature exchange coupling between Fe ₂ O ₃ and FeTiO ₃ : Insight into the mechanism of giant exchange bias in a natural nanoscale intergrowth. <i>Physical Review B</i> , 2007, 76, .	1.1	29
58	Nanopaleomagnetism of meteoritic Fe-Ni studied using X-ray photoemission electron microscopy. <i>Earth and Planetary Science Letters</i> , 2014, 396, 125-133.	1.8	29
59	Magnetostructural coupling behavior at the ferromagnetic transition in double-perovskite $Sr_{1-x}Fe_xMo_2O_{10}$. <i>Physical Review B</i> , 2017, 95, 024411.	1.1	29
60	Secondary magnetic inclusions in detrital zircons from the Jack Hills, Western Australia, and implications for the origin of the geodynamo. <i>Geology</i> , 2018, 46, 427-430.	2.0	27
61	Fe ²⁺ /Fe ³⁺ charge ordering in contact layers of lamellar magnetism: Bond valence arguments. <i>American Mineralogist</i> , 2006, 91, 67-72.	0.9	26
62	Magnetic coupling parameters at an oxide-oxide interface from first principles: Fe ₂ O ₃ -FeTiO ₃ . <i>Physical Review B</i> , 2010, 81, .	1.1	26
63	Pallasite paleomagnetism: Quiescence of a core dynamo. <i>Earth and Planetary Science Letters</i> , 2016, 441, 103-112.	1.8	26
64	Neutron Diffraction of Magnetic Materials. <i>Reviews in Mineralogy and Geochemistry</i> , 2006, 63, 113-143.	2.2	25
65	Magnetic and microscopic characterization of magnetite nanoparticles adhered to clay surfaces. <i>American Mineralogist</i> , 2009, 94, 1120-1129.	0.9	25
66	Secondary magnetite in ancient zircon precludes analysis of a Hadean geodynamo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 407-412.	3.3	24
67	Seismic-frequency attenuation at first-order phase transitions: dynamical mechanical analysis of pure and Ca-doped lead orthophosphate. <i>Mineralogical Magazine</i> , 2004, 68, 839-852.	0.6	23
68	A Monte Carlo investigation of the thermodynamics of cation ordering in 2-3 spinels. <i>American Mineralogist</i> , 2007, 92, 1334-1345.	0.9	22
69	Elastic and magnetoelastic relaxation behaviour of multiferroic (ferromagnetic + ferroelectric +) Tj ETQq1 1 0.784314 rgBT /Overlock Condensed Matter, 2015, 27, 285901.	0.7	22
70	Micromagnetic simulation of magnetofossils with realistic size and shape distributions: Linking magnetic proxies with nanoscale observations and implications for magnetofossil identification. <i>Earth and Planetary Science Letters</i> , 2019, 527, 115790.	1.8	22
71	The coupling between magnetic and cation ordering: A macroscopic approach. <i>European Journal of Mineralogy</i> , 1997, 9, 1115-1130.	0.4	22
72	Memory effect of a mechanical anomaly related to ferroelastic domain switching in rhombohedral lead zirconate titanate ceramics. <i>Applied Physics Letters</i> , 2006, 89, 152906.	1.5	21

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73	Localized Magnetic Fields in Arbitrary Directions Using Patterned Nanomagnets. <i>Nano Letters</i> , 2010, 10, 1549-1553.	4.5	21
74	In-situ neutron diffraction study of non-convergent cation ordering in the $(\text{Fe}_{3-x}\text{O}_4)_{1-x}(\text{MgAl}_2\text{O}_4)_x$ spinel solid solution. <i>American Mineralogist</i> , 1999, 84, 555-563.	0.9	20
75	Origin of Self-Reversed Thermoremanent Magnetization. <i>Physical Review Letters</i> , 2005, 95, 268501.	2.9	19
76	Quantitative determination of vortex core dimensions in head-to-head domain walls using off-axis electron holography. <i>Applied Physics Letters</i> , 2008, 92, 112502.	1.5	19
77	A high spatial resolution synchrotron Mössbauer study of the Tazewell III CD and Esquel pallasite meteorites. <i>Meteoritics and Planetary Science</i> , 2017, 52, 925-936.	0.7	19
78	Hysteresis of Natural Magnetite Ensembles: Micromagnetics of Silicate-Hosted Magnetite Inclusions Based on Focused Ion Beam Nanotomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009389.	1.0	19
79	The application of Lorentz transmission electron microscopy to the study of lamellar magnetism in hematite-ilmenite. <i>American Mineralogist</i> , 2009, 94, 262-269.	0.9	18
80	Simulation of Remanent, Transient, and Induced FORC Diagrams for Interacting Particles With Uniaxial, Cubic, and Hexagonal Anisotropy. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12404-12429.	1.4	18
81	Reevaluating the evidence for a Hadean-Eoarchean dynamo. <i>Science Advances</i> , 2020, 6, eaav9634.	4.7	18
82	Strain relaxation mechanisms of elastic softening and twin wall freezing associated with structural phase transitions in $(\text{Ca,Sr})\text{TiO}_3$ perovskites. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 505402.	0.7	17
83	Microstructural and paleomagnetic insight into the cooling history of the IAB parent body. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 229, 1-19.	1.6	17
84	Lamellar magnetism: effects of interface versus exchange interactions of nanoscale exsolutions in the ilmenite-hematite system. <i>Journal of Physics: Conference Series</i> , 2005, 17, 154-167.	0.3	16
85	A computational study of order-disorder phenomena in Mg_2TiO_4 spinel (qandilite). <i>American Mineralogist</i> , 2008, 93, 1363-1372.	0.9	16
86	Spin orientation in a natural Ti-bearing hematite: Evidence for an out-of-plane component. <i>American Mineralogist</i> , 2010, 95, 974-979.	0.9	16
87	Interaction between exsolution microstructures and magnetic properties of the magnetite-spinel solid solution. <i>American Mineralogist</i> , 1997, 82, 131-142.	0.9	15
88	Thermal modification of hematite-ilmenite intergrowths in the Ecstall pluton, British Columbia, Canada. <i>American Mineralogist</i> , 2010, 95, 153-160.	0.9	15
89	Unlocking information about fine magnetic particle assemblages from first-order reversal curve diagrams: Recent advances. <i>Earth-Science Reviews</i> , 2022, 227, 103950.	4.0	15
90	Magnetic Transitions in Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , 2000, 39, 175-202.	2.2	14

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91	Nanostructure and crystallography of aberrant columnar vaterite in <i>Corbicula fluminea</i> (Mollusca). <i>Journal of Structural Biology</i> , 2012, 178, 8-18.	1.3	14
92	Ferrimagnetic/ferroelastic domain interactions in magnetite below the Verwey transition: Part II. Micromagnetic and image simulations. <i>Phase Transitions</i> , 2013, 86, 88-102.	0.6	14
93	The Thermal Evolution of Planetesimals During Accretion and Differentiation: Consequences for Dynamo Generation by Thermally-Driven Convection. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006704.	1.5	14
94	Constraints on the ice composition of carbonaceous chondrites from their magnetic mineralogy. <i>Earth and Planetary Science Letters</i> , 2021, 576, 117243.	1.8	14
95	Magnetic ordering in the ilmenite-hematite solid solution: A computational study of the low-temperature spin glass region. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	13
96	Magnetic properties of ilmenite-hematite single crystals from the Ecstall pluton near Prince Rupert, British Columbia. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	13
97	Magnetic Vortex States in Toroidal Iron Oxide Nanoparticles: Combining Micromagnetics with Tomography. <i>Nano Letters</i> , 2020, 20, 7405-7412.	4.5	13
98	Elastic and anelastic relaxations accompanying magnetic ordering and spin-flop transitions in hematite, Fe_2O_3 . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 116006.	0.7	12
99	A computational model of cation ordering in the magnesioferrite-qandilite (MgFe_2O_4 - Mg_2TiO_4) solid solution and its potential application to titanomagnetite (Fe_3O_4 - Fe_2TiO_4). <i>American Mineralogist</i> , 2013, 98, 698-708.	0.9	12
100	Nanoscale Imaging of High-Field Magnetic Hysteresis in Meteoritic Metal Using X-Ray Holography. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009044.	1.0	12
101	Anelastic behaviour of leucite KAlSi_2O_6 . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 442, 208-211.	2.6	11
102	Chemical and magnetic properties of rapidly cooled metastable ferri-ilmenite solid solutions: implications for magnetic self-reversal and exchange bias-II. Chemical changes during quench and annealing. <i>Geophysical Journal International</i> , 2012, 188, 447-472.	1.0	11
103	Elastic and anelastic relaxation behaviour of perovskite multiferroics I: $\text{PbZr}_0.53\text{Ti}_0.47\text{O}_3$ (PZT)- $\text{PbFe}_0.5\text{Nb}_0.5\text{O}_3$ (PFN). <i>Journal of Materials Science</i> , 2016, 51, 10727-10760.	1.7	11
104	An X-ray magnetic circular dichroism (XMCD) study of Fe ordering in a synthetic MgAl_2O_4 - Fe_3O_4 (spinel-magnetite) solid-solution series: Implications for magnetic properties and cation site ordering. <i>American Mineralogist</i> , 2016, 101, 1373-1388.	0.9	11
105	Spin orientation in solid solution hematite-ilmenite. <i>American Mineralogist</i> , 2017, 102, 1234-1243.	0.9	11
106	Elastic and anelastic relaxation behaviour of perovskite multiferroics II: $\text{PbZr}_0.53\text{Ti}_0.47\text{O}_3$ (PZT)- $\text{PbFe}_0.5\text{Ta}_0.5\text{O}_3$ (PFT). <i>Journal of Materials Science</i> , 2017, 52, 285-304.	1.7	11
107	Group-theoretical analysis of structural instability, vacancy ordering and magnetic transitions in the system troilite (FeS)-pyrrhotite (Fe_{1-x}S). <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 1208-1224.	0.5	11
108	Biomagnetic Characterization of Air Pollution Particulates in Lahore, Pakistan. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	11

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109	A Time-Resolved Paleomagnetic Record of Main Group Pallasites: Evidence for a Large-Cored, Thin-Mantled Parent Body. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006900.	1.5	10
110	Pressure dependence of Fe-Ti order in the ilmenite-hematite solid solution: Implications for the origin of lower crustal magnetization. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 154, 266-275.	0.7	9
111	A computational investigation of cation ordering phenomena in the binary spinel system $MgAl_2O_4$ - $FeAl_2O_4$. <i>Mineralogical Magazine</i> , 2007, 71, 611-624.	0.6	9
112	The effects of dislocations on crystallographic twins and domain wall motion in magnetite at the Verwey transition. <i>Earth, Planets and Space</i> , 2019, 71, 5.	0.9	9
113	An Automatic Model Selection-Based Machine Learning Framework to Estimate FORC Distributions. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020418.	1.4	9
114	Variations in the Magnetic Properties of Meteoritic Cloudy Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008798.	1.0	8
115	Magnetic Domain State and Anisotropy in Hematite (Fe_2O_3) From First-Order Reversal Curve Diagrams. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB023027.	1.4	8
116	Chemical and magnetic properties of rapidly cooled metastable ferri-ilmenite solid solutions - IV: the fine structure of self-reversed thermoremanent magnetization. <i>Geophysical Journal International</i> , 2014, 196, 1375-1396.	1.0	7
117	Experimental evidence for lamellar magnetism in hemo-ilmenite by polarized neutron scattering. <i>Physical Review B</i> , 2014, 89, .	1.1	7
118	Discovery of giant magnetofossils within and outside of the Palaeocene-Eocene Thermal Maximum in the North Atlantic. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117417.	1.8	7
119	Mechanical properties and domain wall mobility of $LaGaO_3$ perovskite over a first-order phase transition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 442, 204-207.	2.6	6
120	Elastic and anelastic anomalies associated with the antiferromagnetic ordering transition in $w\sqrt{4}$ stite, $FexO$. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 215404.	0.7	6
121	Chemical and magnetic properties of rapidly cooled metastable ferri-ilmenite solid solutions: implications for magnetic self-reversal and exchange bias - III. Magnetic interactions in samples produced by Fe-Ti ordering. <i>Geophysical Journal International</i> , 2012, , .	1.0	6
122	Hysteresis parameters and magnetic anisotropy of silicate-hosted magnetite exsolutions. <i>Geophysical Journal International</i> , 2022, 229, 1695-1717.	1.0	6
123	Assessment of Magnetic Techniques for Understanding Complex Mixtures of Magnetite and Hematite: The Inuyama Red Chert. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	1.4	5
124	Micromagnetic Tomography for Paleomagnetism and Rock-Magnetism. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022364.	1.4	5
125	Magnetic meteorites and the early solar system. <i>Astronomy and Geophysics</i> , 2015, 56, 4.36-4.42.	0.1	4
126	Magnetic Mineralogy of Meteoritic Metal: Paleomagnetic Evidence for Dynamo Activity on Differentiated Planetesimals. , 2017, , 204-223.		4

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127	Field Response of Magnetic Vortices in Dusty Olivine From the Semarkona Chondrite. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1441-1453.	1.0	4
128	Magnetic Biosignatures of Magnetosomal Greigite From Micromagnetic Calculation. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
129	7. Magnetic Transitions in Minerals. , 2000, , 175-202.		3
130	6. Neutron Diffraction of Magnetic Materials. , 2006, , 113-144.		2
131	Projecting into the Third Dimension: 3D Ore Mineralogy via Machine Learning of Automated Mineralogy and X-Ray Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 410-411.	0.2	2
132	Lamellar magnetism and exchange bias in billion-year-old metamorphic titanohematite with nanoscale ilmenite exsolution lamellae â€œ III. Atomic-magnetic basis for experimental results. <i>Geophysical Journal International</i> , 2021, 226, 1348-1367.	1.0	2
133	MagNet: Automated Magnetic Mineral Grain Morphometry Using Convolutional Neural Network. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	2
134	Order-disorder phase transitions in silicates and oxides: Recent observations of strain coupling. <i>Ferroelectrics</i> , 2000, 236, 293-303.	0.3	1
135	Structural and Magnetic Phase Transitions in Minerals: In Situ Studies by Neutron Scattering. <i>Neutron Scattering Applications and Techniques</i> , 2009, , 107-143.	0.2	1
136	Acceptance of the Mineralogical Society of America Award for 2007. <i>American Mineralogist</i> , 2008, 93, 959-959.	0.9	0