

# Richard Harrison

## List of Publications by Year in descending order

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136  
papers

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citations

81743

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149  
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docs citations

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times ranked

5073  
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#	ARTICLE	IF	CITATIONS
1	Hysteresis parameters and magnetic anisotropy of silicate-hosted magnetite exsolutions. <i>Geophysical Journal International</i> , 2022, 229, 1695-1717.	1.0	6
2	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
3	Biomagnetic Characterization of Air Pollution Particulates in Lahore, Pakistan. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	11
4	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
5	Magnetic Biosignatures of Magnetosomal Greigite From Micromagnetic Calculation. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
6	MagNet: Automated Magnetic Mineral Grain Morphometry Using Convolutional Neural Network. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	2
7	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
8	The Thermal Evolution of Planetesimals During Accretion and Differentiation: Consequences for Dynamo Generation by Thermallyâ€Driven Convection. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006704.	1.5	14
9	Lamellar magnetism and exchange bias in billion-year-old metamorphic titanohematite with nanoscale ilmenite exsolution lamellae â€ III. Atomic-magnetic basis for experimental results. <i>Geophysical Journal International</i> , 2021, 226, 1348-1367.	1.0	2
10	A Timeâ€Resolved Paleomagnetic Record of Main Group Pallasites: Evidence for a Largeâ€Cored, Thinâ€Mantled Parent Body. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006900.	1.5	10
11	Micromagnetic Tomography for Paleomagnetism and Rockâ€Magnetism. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022364.	1.4	5
12	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
13	Magnetic Domain State and Anisotropy in Hematite ( $\text{Fe}_2\text{O}_3$ ) From Firstâ€Order Reversal Curve Diagrams. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB023027.	1.4	8
14	An Automatic Model Selectionâ€Based Machine Learning Framework to Estimate FORC Distributions. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020418.	1.4	9
15	Hysteresis of Natural Magnetite Ensembles: Micromagnetics of Silicateâ€Hosted Magnetite Inclusions Based on Focusedâ€Ionâ€Beam Nanotomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009389.	1.0	19
16	Magnetic Vortex States in Toroidal Iron Oxide Nanoparticles: Combining Micromagnetics with Tomography. <i>Nano Letters</i> , 2020, 20, 7405-7412.	4.5	13
17	Nanoscale Imaging of Highâ€Field Magnetic Hysteresis in Meteoritic Metal Using Xâ€Ray Holography. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009044.	1.0	12
18	Variations in the Magnetic Properties of Meteoritic Cloudy Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008798.	1.0	8

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19	Reevaluating the evidence for a Hadean-Eoarchean dynamo. <i>Science Advances</i> , 2020, 6, eaav9634.	4.7	18
20	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
21	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
22	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
23	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
24	Field Response of Magnetic Vortices in Dusty Olivine From the Semarkona Chondrite. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1441-1453.	1.0	4
25	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
26	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
27	Group-theoretical analysis of structural instability, vacancy ordering and magnetic transitions in the system troilite (FeS)–pyrrhotite (Fe <sub>1-x</sub> S). <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 1208-1224.	0.5	11
28	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
29	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
30	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
31	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
32	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
33	The Vortex State in Geologic Materials: A Micromagnetic Perspective. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7285-7304.	1.4	59
34	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
35	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
36	Magnetic Mineralogy of Meteoritic Metal: Paleomagnetic Evidence for Dynamo Activity on Differentiated Planetesimals. , 2017, , 204-223.		4

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37	A high spatial resolution synchrotron Mössbauer study of the Tazewell $\text{III CD}$ and Esquel pallasite meteorites. <i>Meteoritics and Planetary Science</i> , 2017, 52, 925-936.	0.7	19
38	Spin orientation in solid solution hematite-ilmenite. <i>American Mineralogist</i> , 2017, 102, 1234-1243.	0.9	11
39	Resolving the Origin of Pseudo-Single Domain Magnetic Behavior. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9534-9558.	1.4	145
40	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
41	Elastic and anelastic relaxation behaviour of perovskite multiferroics II: $\text{PbZr}_{0.53}\text{Ti}_{0.47}\text{O}_3$ (PZT) $\leftrightarrow$ $\text{PbFe}_{0.5}\text{Ta}_{0.5}\text{O}_3$ (PFT). <i>Journal of Materials Science</i> , 2017, 52, 285-304.	1.7	11
42	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
43	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
44	Elastic and anelastic relaxation behaviour of perovskite multiferroics I: $\text{PbZr}_{0.53}\text{Ti}_{0.47}\text{O}_3$ (PZT) $\leftrightarrow$ $\text{PbFe}_{0.5}\text{Nb}_{0.5}\text{O}_3$ (PFN). <i>Journal of Materials Science</i> , 2016, 51, 10727-10760.	1.7	11
45	double-perovskite $\langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{S} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{r} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{FeMo} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi}$	1.1	29
46	An X-ray magnetic circular dichroism (XMCD) study of Fe ordering in a synthetic $\text{MgAl}_2\text{O}_4\text{-Fe}_3\text{O}_4$ (spinel-magnetite) solid-solution series: Implications for magnetic properties and cation site ordering. <i>American Mineralogist</i> , 2016, 101, 1373-1388.	0.9	11
47	Pallasite paleomagnetism: Quiescence of a core dynamo. <i>Earth and Planetary Science Letters</i> , 2016, 441, 103-112.	1.8	26
48	Magnetic meteorites and the early solar system. <i>Astronomy and Geophysics</i> , 2015, 56, 4.36-4.42.	0.1	4
49	Magnetic unmixing of first-order reversal curve diagrams using principal component analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2900-2915.	1.0	57
50	Long-lived magnetism from solidification-driven convection on the pallasite parent body. <i>Nature</i> , 2015, 517, 472-475.	13.7	68
51	Elastic and magnetoelastic relaxation behaviour of multiferroic (ferromagnetic + ferroelectric +) $\text{Tj ETQq1 1 0.784314 rgBT / Overlock 10}$ Condensed Matter, 2015, 27, 285901.	0.7	22
52	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
53	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
54	Chemical and magnetic properties of rapidly cooled metastable ferri-ilmenite solid solutions $\leftrightarrow$ IV: the fine structure of self-reversed thermoremanent magnetization. <i>Geophysical Journal International</i> , 2014, 196, 1375-1396.	1.0	7

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55	FORCulator: A micromagnetic tool for simulating first-order reversal curve diagrams. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4671-4691.	1.0	57
56	Solar nebula magnetic fields recorded in the Semarkona meteorite. <i>Science</i> , 2014, 346, 1089-1092.	6.0	130
57	Experimental evidence for lamellar magnetism in hemo-ilmenite by polarized neutron scattering. <i>Physical Review B</i> , 2014, 89, .	1.1	7
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	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
60	Elastic and anelastic relaxations accompanying magnetic ordering and spin-flop transitions in hematite, Fe <sub>2</sub> O <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 116006.	0.7	12
61	A computational model of cation ordering in the magnesioferrite-qandilite (MgFe <sub>2</sub> O <sub>4</sub> -Mg <sub>2</sub> TiO <sub>4</sub> ) solid solution and its potential application to titanomagnetite (Fe <sub>3</sub> O <sub>4</sub> -Fe <sub>2</sub> TiO <sub>4</sub> ). <i>American Mineralogist</i> , 2013, 98, 698-708.	0.9	12
62	Dipolar Magnetism in Ordered and Disordered Low-Dimensional Nanoparticle Assemblies. <i>Scientific Reports</i> , 2013, 3, 1234.	1.6	120
63	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
64	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
65	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
66	Elastic and anelastic anomalies associated with the antiferromagnetic ordering transition in w <sup>1/4</sup> stite, Fe <sub>x</sub> O. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 215404.	0.7	6
67	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
68	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
69	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
70	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
71	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
72	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

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73	Ferroic switching, avalanches, and the Larkin length: Needle domains in LaAlO <sub>3</sub> . Applied Physics Letters, 2011, 99, 151915.	1.5	34
74	The noise of the needle: Avalanches of a single progressing needle domain in LaAlO <sub>3</sub> . Applied Physics Letters, 2010, 97, .	1.5	70
75	Magnetic coupling parameters at an oxide-oxide interface from first principles: Fe <sub>2</sub> O <sub>3</sub> -FeTiO <sub>3</sub> . Physical Review B, 2010, 81, .	1.1	26
76	Spin orientation in a natural Ti-bearing hematite: Evidence for an out-of-plane component. American Mineralogist, 2010, 95, 974-979.	0.9	16
77	Localized Magnetic Fields in Arbitrary Directions Using Patterned Nanomagnets. Nano Letters, 2010, 10, 1549-1553.	4.5	21
78	Direct observation of ferrimagnetic/ferroelastic domain interactions in magnetite below the Verwey transition. Earth and Planetary Science Letters, 2010, 297, 10-17.	1.8	48
79	Thermal modification of hematite-ilmenite intergrowths in the Ecstall pluton, British Columbia, Canada. American Mineralogist, 2010, 95, 153-160.	0.9	15
80	The application of Lorentz transmission electron microscopy to the study of lamellar magnetism in hematite-ilmenite. American Mineralogist, 2009, 94, 262-269.	0.9	18
81	Magnetic and microscopic characterization of magnetite nanoparticles adhered to clay surfaces. American Mineralogist, 2009, 94, 1120-1129.	0.9	25
82	Magnetic ordering in the ilmenite-hematite solid solution: A computational study of the low-temperature spin glass region. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	13
83	Mineral Magnetism: Providing New Insights into Geoscience Processes. Elements, 2009, 5, 209-215.	0.5	44
84	Effect of chemical substitution on the Néel temperature of multiferroic $\text{BiMg}_{1-x}\text{Fe}_x\text{TiO}_5$ . Physical Review B, 2009, 79, .	1.1	111
85	Structural and Magnetic Phase Transitions in Minerals: In Situ Studies by Neutron Scattering. Neutron Scattering Applications and Techniques, 2009, , 107-143.	0.2	1
86	FORCinel: An improved algorithm for calculating first-order reversal curve distributions using locally weighted regression smoothing. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	584
87	Quantitative determination of vortex core dimensions in head-to-head domain walls using off-axis electron holography. Applied Physics Letters, 2008, 92, 112502.	1.5	19
88	A computational study of order-disorder phenomena in Mg <sub>2</sub> TiO <sub>4</sub> spinel (qandilite). American Mineralogist, 2008, 93, 1363-1372.	0.9	16
89	Acceptance of the Mineralogical Society of America Award for 2007. American Mineralogist, 2008, 93, 959-959.	0.9	0
90	Vortex ferroelectric domains. Journal of Physics Condensed Matter, 2008, 20, 342201.	0.7	155

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91	A computational investigation of cation ordering phenomena in the binary spinel system $MgAl_2O_4-FeAl_2O_4$ . Mineralogical Magazine, 2007, 71, 611-624.	0.6	9
92	Low-temperature exchange coupling between $Fe_2O_3$ and $FeTiO_3$ : Insight into the mechanism of giant exchange bias in a natural nanoscale intergrowth. Physical Review B, 2007, 76, .	1.1	29
93	A Monte Carlo investigation of the thermodynamics of cation ordering in 2-3 spinels. American Mineralogist, 2007, 92, 1334-1345.	0.9	22
94	Magnetic exchange bias of more than 1 Tesla in a natural mineral intergrowth. Nature Nanotechnology, 2007, 2, 631-634.	15.6	74
95	Effects of internal mineral structures on the magnetic remanence of silicate-hosted titanomagnetite inclusions: An electron holography study. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	50
96	Neutron Diffraction of Magnetic Materials. Reviews in Mineralogy and Geochemistry, 2006, 63, 113-143.	2.2	25
97	Pressure dependence of Fe-Ti order in the ilmenite-hematite solid solution: Implications for the origin of lower crustal magnetization. Physics of the Earth and Planetary Interiors, 2006, 154, 266-275.	0.7	9
98	6. Neutron Diffraction of Magnetic Materials. , 2006, , 113-144.		2
99	Microstructure and magnetism in the ilmenite-hematite solid solution: A Monte Carlo simulation study. American Mineralogist, 2006, 91, 1006-1024.	0.9	34
100	Mechanical properties and domain wall mobility of $LaGaO_3$ perovskite over a first-order phase transition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 204-207.	2.6	6
101	Effect of transformation twins on the anelastic behavior of polycrystalline $Ca_{1-x}Sr_xTiO_3$ and $Sr_xBa_{1-x}SnO_3$ perovskite in relation to the seismic properties of Earth's mantle perovskite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 199-203.	2.6	33
102	Anelastic behaviour of leucite $KAlSi_2O_6$ . Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 208-211.	2.6	11
103	$Fe^{2+}/Fe^{3+}$ charge ordering in contact layers of lamellar magnetism: Bond valence arguments. American Mineralogist, 2006, 91, 67-72.	0.9	26
104	Memory effect of a mechanical anomaly related to ferroelastic domain switching in rhombohedral lead zirconate titanate ceramics. Applied Physics Letters, 2006, 89, 152906.	1.5	21
105	Lamellar magnetism: effects of interface versus exchange interactions of nanoscale exsolutions in the ilmenite-hematite system. Journal of Physics: Conference Series, 2005, 17, 154-167.	0.3	16
106	Magnetic induction mapping of magnetite chains in magnetotactic bacteria at room temperature and close to the Verwey transition using electron holography. Journal of Physics: Conference Series, 2005, 17, 108-121.	0.3	57
107	Origin of Self-Reversed Thermoremanent Magnetization. Physical Review Letters, 2005, 95, 268501.	2.9	19
108	Seismic-frequency attenuation at first-order phase transitions: dynamical mechanical analysis of pure and Ca-doped lead orthophosphate. Mineralogical Magazine, 2004, 68, 839-852.	0.6	23

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109	Dynamical excitation and anelastic relaxation of ferroelastic domain walls in LaAlO <sub>3</sub> . <i>Physical Review B</i> , 2004, 69, .	1.1	137
110	Nature and origin of lamellar magnetism in the hematite-ilmenite series. <i>American Mineralogist</i> , 2004, 89, 725-747.	0.9	89
111	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
112	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
113	The effect of transformation twins on the seismic-frequency mechanical properties of polycrystalline Ca <sub>1-x</sub> Sr <sub>x</sub> TiO <sub>3</sub> perovskite. <i>American Mineralogist</i> , 2003, 88, 574-582.	0.9	81
114	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
115	Phase transition behaviour and equilibrium phase relations in the fast-ion conductor system Na <sub>3</sub> PO <sub>4</sub> •Na <sub>2</sub> SO <sub>4</sub> . <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3252-3259.	1.3	31
116	The influence of transformation twins on the seismic-frequency elastic and anelastic properties of perovskite: dynamical mechanical analysis of single crystal LaAlO <sub>3</sub> . <i>Physics of the Earth and Planetary Interiors</i> , 2002, 134, 253-272.	0.7	124
117	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
118	Lamellar magnetism in the haematite-ilmenite series as an explanation for strong remanent magnetization. <i>Nature</i> , 2002, 418, 517-520.	13.7	207
119	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
120	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
121	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
122	Thermodynamics of the R <sub>3</sub> ... to R <sub>3</sub> ...c phase transition in the ilmenite-hematite solid solution. <i>American Mineralogist</i> , 2000, 85, 1694-1705.	0.9	54
123	Magnetic Transitions in Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , 2000, 39, 175-202.	2.2	14
124	7. Magnetic Transitions in Minerals. , 2000, , 175-202.		3
125	Order-disorder phase transitions in silicates and oxides: Recent observations of strain coupling. <i>Ferroelectrics</i> , 2000, 236, 293-303.	0.3	1
126	In-situ study of the R <sub>3</sub> ... to R <sub>3</sub> ...c 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



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127	Thermodynamics and kinetics of cation ordering in $\text{MgAl}_2\text{O}_4$ spinel up to 1600 degrees C from in situ neutron diffraction. <i>American Mineralogist</i> , 1999, 84, 299-310.	0.9	195
128	Determination of the mechanism of cation ordering in magnesioferrite ( $\text{MgFe}_2\text{O}_4$ ) from the time- and temperature-dependence of magnetic susceptibility. <i>Physics and Chemistry of Minerals</i> , 1999, 26, 322-332.	0.3	74
129	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
130	The Magnetic Properties and Crystal Chemistry of Oxide Spinel Solid Solutions. <i>Surveys in Geophysics</i> , 1998, 19, 461-520.	2.1	52
131	An investigation of the phase transitions in bornite ( $\text{Cu}_5\text{FeS}_4$ ) using neutron diffraction and differential scanning calorimetry. <i>American Mineralogist</i> , 1998, 83, 1231-1239.	0.9	31
132	The temperature dependence of the cation distribution in synthetic hercynite ( $\text{FeAl}_2\text{O}_4$ ) from in-situ neutron structure refinements. <i>American Mineralogist</i> , 1998, 83, 1092-1099.	0.9	100
133	Interaction between exsolution microstructures and magnetic properties of the magnetite-spinel solid solution. <i>American Mineralogist</i> , 1997, 82, 131-142.	0.9	15
134	The coupling between magnetic and cation ordering: A macroscopic approach. <i>European Journal of Mineralogy</i> , 1997, 9, 1115-1130.	0.4	22
135	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
136	Determination of olivine cooling rates from metal-cation ordering. <i>Nature</i> , 1996, 381, 407-409.	13.7	54