

Suzanne A Mcenroe

List of Publications by Year in descending order

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83
papers

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citations

257450

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265206

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all docs

92
docs citations

92
times ranked

1287
citing authors

#	ARTICLE	IF	CITATIONS
1	Lamellar magnetism in the haematite-ilmenite series as an explanation for strong remanent magnetization. <i>Nature</i> , 2002, 418, 517-520.	27.8	207
2	Measuring the Curie temperature. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 947-961.	2.5	106
3	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.	2.4	98
4	Nature and origin of lamellar magnetism in the hematite-ilmenite series. <i>American Mineralogist</i> , 2004, 89, 725-747.	1.9	89
5	Aeromagnetic anomalies, magnetic petrology, and rock magnetism of hemo-ilmenite- and magnetite-rich cumulate rocks from the Sokndal Region, South Rogaland, Norway. <i>American Mineralogist</i> , 2001, 86, 1447-1468.	1.9	87
6	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
7	What is magnetic in the lower crust?. <i>Earth and Planetary Science Letters</i> , 2004, 226, 175-192.	4.4	74
8	Magnetic exchange bias of more than 1 Tesla in a natural mineral intergrowth. <i>Nature Nanotechnology</i> , 2007, 2, 631-634.	31.5	74
9	A closer look at remanence-dominated aeromagnetic anomalies: Rock magnetic properties and magnetic mineralogy of the Russell Belt microcline-sillimanite gneiss, northwest Adirondack Mountains, New York. <i>Journal of Geophysical Research</i> , 2000, 105, 16437-16456.	3.3	61
10	Palaeointensity, core thermal conductivity and the unknown age of the inner core. <i>Geophysical Journal International</i> , 2016, 205, 1190-1195.	2.4	58
11	Magnetization of exsolution intergrowths of hematite and ilmenite: Mineral chemistry, phase relations, and magnetic properties of hemo-ilmenite ores with micron-to nanometer-scale lamellae from Allard Lake, Quebec. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	49
12	Crustal Magnetism, Lamellar Magnetism and Rocks That Remember. <i>Elements</i> , 2009, 5, 241-246.	0.5	45
13	Magnetic anomalies, layered intrusions and Mars. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	42
14	Effects of nanoscale exsolution in hematite-ilmenite on the acquisition of stable natural remanent magnetization. <i>Earth and Planetary Science Letters</i> , 2004, 224, 461-475.	4.4	39
15	A low-temperature phase diagram for ilmenite-rich compositions in the system Fe ₂ O ₃ -FeTiO ₃ . <i>American Mineralogist</i> , 2008, 93, 1260-1272.	1.9	37
16	Palaeomagnetism of the Egersund-Ogna anorthosite, Rogaland, Norway, and the position of Fennoscandia in the Late Proterozoic. <i>Geophysical Journal International</i> , 2004, 158, 479-488.	2.4	36
17	Magnetic domain structures and stray fields of individual elongated magnetite grains revealed by magnetic force microscopy (MFM). <i>Physics of the Earth and Planetary Interiors</i> , 2004, 141, 121-129.	1.9	36
18	Exchange bias identifies lamellar magnetism as the origin of the natural remanent magnetization in titanohematite with ilmenite exsolution from Modum, Norway. <i>Earth and Planetary Science Letters</i> , 2008, 268, 339-353.	4.4	35

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19	Portrait of a giant deep-seated magmatic conduit system: The Seiland Igneous Province. <i>Lithos</i> , 2018, 296-299, 600-622.	1.4	34
20	Remanent and induced magnetic anomalies over a layered intrusion: Effects from crystal fractionation and magma recharge. <i>Tectonophysics</i> , 2009, 478, 119-134.	2.2	32
21	Magnetic properties of terrestrial moss (<i>Hylocomium splendens</i>) along a north-south profile crossing the city of Oslo, Norway. <i>Science of the Total Environment</i> , 2011, 409, 2252-2260.	8.0	32
22	Crystallographic-magnetic correlations in single-crystal haemo-ilmenite: new evidence for lamellar magnetism. <i>Geophysical Journal International</i> , 2006, 165, 17-31.	2.4	29
23	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, .	3.2	29
24	Fe ²⁺ /Fe ³⁺ charge ordering in contact layers of lamellar magnetism: Bond valence arguments. <i>American Mineralogist</i> , 2006, 91, 67-72.	1.9	26
25	Magnetic properties and potential field modeling of the Peculiar Knob metamorphosed iron formation, South Australia: An analog for the source of the intense Martian magnetic anomalies?. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	25
26	Magnetic field microscopy of rock samples using a giant magnetoresistance-based scanning magnetometer. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	24
27	Anatomy of a deep crustal volcanic conduit system; The Rein fjord Ultramafic Complex, Seiland Igneous Province, Northern Norway. <i>Lithos</i> , 2016, 252-253, 200-215.	1.4	24
28	Paleomagnetism and magnetic mineralogy of Grenville metamorphic and igneous rocks, Adirondack Highlands, USA. <i>Precambrian Research</i> , 2012, 212-213, 57-74.	2.7	23
29	Minor element chemistry of hemo-ilmenite and magnetite in cumulate rocks from the Sokndal Region, South Rogaland, Norway. <i>American Mineralogist</i> , 2001, 86, 1469-1476.	1.9	20
30	Magnetic susceptibility of Mesozoic and Cenozoic sediments off Mid Norway and the role of siderite: implications for interpretation of high-resolution aeromagnetic anomalies. <i>Marine and Petroleum Geology</i> , 2002, 19, 1115-1126.	3.3	20
31	High efficiency of natural lamellar remanent magnetisation in single grains of ilmeno-hematite calculated using Mössbauer spectroscopy. <i>Earth and Planetary Science Letters</i> , 2009, 288, 268-278.	4.4	20
32	Magnetic properties of anorthosites: A forgotten source for planetary magnetic anomalies?. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	19
33	916 Ma Pole for southwestern Baltica: palaeomagnetism of the Bjerkreim-Sokndal layered intrusion, Rogaland Igneous Complex, southern Norway. <i>Geophysical Journal International</i> , 2015, 203, 567-587.	2.4	19
34	Remanent magnetization, magnetic coupling, and interface ionic configurations of intergrown rhombohedral and cubic Fe-Ti oxides: A short survey. <i>American Mineralogist</i> , 2016, 101, 518-530.	1.9	19
35	Hysteresis of Natural Magnetite Ensembles: Micromagnetics of Silicate-Hosted Magnetite Inclusions Based on Focused-Beam Nanotomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009389.	2.5	19
36	The application of Lorentz transmission electron microscopy to the study of lamellar magnetism in hematite-ilmenite. <i>American Mineralogist</i> , 2009, 94, 262-269.	1.9	18

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37	Magnetic clusters in ilmenite-hematite solid solutions. <i>Physical Review B</i> , 2010, 81, .	3.2	18
38	The relationship between exsolution and magnetic properties in hemo-ilmenite: Insights from Mössbauer spectroscopy with implications for planetary magnetic anomalies. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	17
39	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.	0.4	16
40	Spin orientation in a natural Ti-bearing hematite: Evidence for an out-of-plane component. <i>American Mineralogist</i> , 2010, 95, 974-979.	1.9	16
41	Chemical and magnetic properties of rapidly cooled metastable ferri-ilmenite solid solutions: implications for magnetic self-reversal and exchange bias-I. Fe-Ti order transition in quenched synthetic ilmenite 61. <i>Geophysical Journal International</i> , 2011, 186, 997-1014.	2.4	16
42	Nonlinear Preisach maps: Detecting and characterizing separate remanent magnetic fractions in complex natural samples. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8373-8395.	3.4	16
43	Influence of lattice-preferred orientation with respect to magnetizing field on intensity of remanent magnetization in polycrystalline hemo-ilmenite. <i>Geophysical Journal International</i> , 2013, 192, 514-536.	2.4	15
44	Magnetism at Depth: A View from an Ancient Continental Subduction and Collision Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1123-1147.	2.5	13
45	Palaeomagnetism, rock magnetism and geochemistry of Jurassic dykes and correlative redbeds, Massachusetts, USA. <i>Geophysical Journal International</i> , 2000, 143, 22-38.	2.4	12
46	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.	2.4	11
47	Lamellar magnetism and exchange bias in billion-year-old titanohematite with nanoscale ilmenite exsolution lamellae: I. Mineral and magnetic characterization. <i>Geophysical Journal International</i> , 2016, 206, 470-486.	2.4	11
48	Spin orientation in solid solution hematite-ilmenite. <i>American Mineralogist</i> , 2017, 102, 1234-1243.	1.9	11
49	Geometry of ionic arrangements and magnetic interactions in ordered ferri-ilmenite solid solutions and its effect on low- $\mu_0 H$ magnetic behavior. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	10
50	Anisotropy of magnetic susceptibility versus lattice- and shape-preferred orientation in the Lac Tio hemo-ilmenite ore body (Grenville province, Quebec). <i>Tectonophysics</i> , 2014, 629, 87-108.	2.2	10
51	Mapping magnetic sources at the millimeter to micrometer scale in dunite and serpentinite by high-resolution magnetic microscopy. <i>Lithos</i> , 2018, 323, 174-190.	1.4	10
52	Mechanism of exchange bias for isolated nanoparticles embedded in an antiferromagnetic matrix. <i>Physical Review B</i> , 2009, 80, .	3.2	9
53	Magnetic fabrics in the Bjerkreim Sokndal Layered Intrusion, Rogaland, southern Norway: Mineral sources and geological significance. <i>Tectonophysics</i> , 2016, 688, 101-118.	2.2	9
54	The deep crustal structure of the mafic-ultramafic Seiland Igneous Province of Norway from 3-D gravity modelling and geological implications. <i>Geophysical Journal International</i> , 2016, 207, 1653-1666.	2.4	9

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55	Effects of Magnetic Anisotropy on Total Magnetic Field Anomalies. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8628-8644.	3.4	9
56	Magnetic Mineralogy and Petrophysical Properties of Ultramafic Rocks: Consequences for Crustal Magnetism. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1794-1817.	2.5	9
57	The palaeolatitude controversy in the Silurian of Newfoundland resolved: new palaeomagnetic results from the central mobile belt. <i>Tectonophysics</i> , 2003, 362, 83-104.	2.2	8
58	Multistep Parametric Inversion of Scanning Magnetic Microscopy Data for Modeling Magnetization of Multidomain Magnetite. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5334-5351.	2.5	8
59	Separating Geometry from Stress-Induced Remanent Magnetization in Magnetite With Ilmenite Lamellae From the Stardalur Basalts, Iceland. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008761.	2.5	8
60	Experimental Study of the Magnetic Signature of Basal-Plane Anisotropy in Hematite. , 2011, , 311-320.		8
61	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.	2.4	7
62	Experimental evidence for lamellar magnetism in hemo-ilmenite by polarized neutron scattering. <i>Physical Review B</i> , 2014, 89, .	3.2	7
63	Magnetic mean-field modelling of solid solutions: theoretical foundations and application to the hematite-ilmenite system. <i>Geophysical Journal International</i> , 2015, 202, 1029-1040.	2.4	7
64	Magnetic phases in hemo-ilmenite: Insight from low-velocity and high-field Mössbauer spectroscopy. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	6
65	Magnetic Field Surveys of Thin Sections. <i>ASEG Extended Abstracts</i> , 2018, 2018, 1-5.	0.1	6
66	Hysteresis parameters and magnetic anisotropy of silicate-hosted magnetite exsolutions. <i>Geophysical Journal International</i> , 2022, 229, 1695-1717.	2.4	6
67	Correction to ‘Magnetic phases in hemo-ilmenite: Insight from low-velocity and high-field Mössbauer spectroscopy’. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	5
68	Magnetic petrology of the Devonian Achala Batholith, Argentina: titanohaematite as an indicator of highly oxidized magma during crystallization and cooling. <i>Geophysical Journal International</i> , 2008, 175, 925-941.	2.4	5
69	Effect of magnetic anisotropy on the natural remanent magnetization in the MCU IVe' layer of the Bjerkeim Sokndal Layered Intrusion, Rogaland, Southern Norway. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 790-807.	3.4	5
70	Influence of static alternating field demagnetization on anisotropy of magnetic susceptibility: Experiments and implications. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3292-3308.	2.5	5
71	Mapping and Modeling Sources of Natural Remanent Magnetization in the Microcline-Sillimanite Gneiss, Northwest Adirondack Mountains: Implications for Crustal Magnetism. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009580.	2.5	5
72	3D Joint Inversion of Scanning Magnetic Microscopy Data. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5

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73	Mixing of heterogeneous, high-MgO, plume-derived magmas at the base of the crust in the Central Iapetus Magmatic Province (Ma 610-550): Origin of parental magmas to a global LIP event. <i>Lithos</i> , 2020, 364-365, 105535.	1.4	4
74	Ferroan geikielite and coupled spinel-rutile exsolution from titanohematite: Interface characterization and magnetic properties. <i>American Mineralogist</i> , 2014, 99, 1694-1712.	1.9	3
75	Lamellar magnetism and exchange bias in billion-year-old metamorphic titanohematite with nanoscale ilmenite exsolution lamellae – II: exchange-bias at 5ÅK after field-free cooling of NRM and after cooling in a +5 T field. <i>Geophysical Journal International</i> , 2017, 208, 895-917.	2.4	3
76	Anorthosites as Sources of Magnetic Anomalies. , 2011, , 321-342.		3
77	Magnetic anomalies of the mafic/ultramafic Seiland Igneous Province. <i>Norwegian Journal of Geology</i> , 0, , .	0.5	3
78	Lamellar magnetism and exchange bias in billion-year-old metamorphic titanohematite with nanoscale ilmenite exsolution lamellae – III. Atomic-magnetic basis for experimental results. <i>Geophysical Journal International</i> , 2021, 226, 1348-1367.	2.4	2
79	An Enigma in Rock Magnetism: Can Microstructures in Magnetite Cause a Threefold Increase in the Efficiency of NRM Acquisition in the Stordalur Basalts?. <i>Geophysical Journal International</i> , 0, , .	2.4	2
80	Paleomagnetic evidence for a Late Triassic age for transitional tholeiitic to alkalic diabase dikes from central Rhode Island. <i>Numerische Mathematik</i> , 1995, 295, 98-123.	1.4	1
81	Magnetic moments of fine particles from micromagnetic surveys. <i>ASEG Extended Abstracts</i> , 2010, 2010, 1-1.	0.1	1
82	Remanent Magnetism. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1319-1325.	0.1	0
83	Remanent Magnetism. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-7.	0.1	0