

# Suzanne A Mcenroe

## List of Publications by Year in descending order

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83  
papers

2,057  
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257450

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92  
docs citations

92  
times ranked

1287  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hysteresis parameters and magnetic anisotropy of silicate-hosted magnetite exsolutions. <i>Geophysical Journal International</i> , 2022, 229, 1695-1717.	2.4	6
2	3D Joint Inversion of Scanning Magnetic Microscopy Data. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
3	Remanent Magnetism. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1319-1325.	0.1	0
4	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
5	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
6	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.	2.5	19
7	Separating Geometry-From Stress-Induced Remanent Magnetization in Magnetite With Ilmenite Lamellae From the Stordalur Basalts, Iceland. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008761.	2.5	8
8	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
9	Remanent Magnetism. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-7.	0.1	0
10	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
11	Magnetic Mineralogy and Petrophysical Properties of Ultramafic Rocks: Consequences for Crustal Magnetism. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1794-1817.	2.5	9
12	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
13	Portrait of a giant deep-seated magmatic conduit system: The Seiland Igneous Province. <i>Lithos</i> , 2018, 296-299, 600-622.	1.4	34
14	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
15	Magnetic Field Surveys of Thin Sections. <i>ASEG Extended Abstracts</i> , 2018, 2018, 1-5.	0.1	6
16	Effect of magnetic anisotropy on the natural remanent magnetization in the MCU IVe' layer of the Bjerkreim Sokndal Layered Intrusion, Rogaland, Southern Norway. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 790-807.	3.4	5
17	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
18	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

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19	Spin orientation in solid solution hematite-ilmenite. <i>American Mineralogist</i> , 2017, 102, 1234-1243.	1.9	11
20	Effects of Magnetic Anisotropy on Total Magnetic Field Anomalies. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8628-8644.	3.4	9
21	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
22	Anatomy of a deep crustal volcanic conduit system; The Reinfjord Ultramafic Complex, Seiland Igneous Province, Northern Norway. <i>Lithos</i> , 2016, 252-253, 200-215.	1.4	24
23	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
24	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
25	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
26	Palaeointensity, core thermal conductivity and the unknown age of the inner core. <i>Geophysical Journal International</i> , 2016, 205, 1190-1195.	2.4	58
27	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
28	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
29	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
30	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
31	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
32	Experimental evidence for lamellar magnetism in hemo-ilmenite by polarized neutron scattering. <i>Physical Review B</i> , 2014, 89, .	3.2	7
33	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
34	Measuring the Curie temperature. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 947-961.	2.5	106
35	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
36	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

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37	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
38	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
39	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
40	Experimental Study of the Magnetic Signature of Basal-Plane Anisotropy in Hematite. , 2011, , 311-320.		8
41	Anorthosites as Sources of Magnetic Anomalies. , 2011, , 321-342.		3
42	Geometry of ionic arrangements and magnetic interactions in ordered ferri-ilmenite solid solutions and its effect on low-frequency magnetic behavior. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	10
43	Magnetic clusters in ilmenite-hematite solid solutions. <i>Physical Review B</i> , 2010, 81, .	3.2	18
44	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
45	Magnetic moments of fine particles from micromagnetic surveys. <i>ASEG Extended Abstracts</i> , 2010, 2010, 1-1.	0.1	1
46	Mechanism of exchange bias for isolated nanoparticles embedded in an antiferromagnetic matrix. <i>Physical Review B</i> , 2009, 80, .	3.2	9
47	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
48	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
49	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
50	Magnetic field microscopy of rock samples using a giant magnetoresistance-based scanning magnetometer. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	24
51	Crustal Magnetism, Lamellar Magnetism and Rocks That Remember. <i>Elements</i> , 2009, 5, 241-246.	0.5	45
52	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
53	Magnetic properties of anorthosites: A forgotten source for planetary magnetic anomalies?. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	19
54	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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55	A low-temperature phase diagram for ilmenite-rich compositions in the system Fe <sub>2</sub> O <sub>3</sub> -FeTiO <sub>3</sub> . <i>American Mineralogist</i> , 2008, 93, 1260-1272.	1.9	37
56	Low-temperature exchange coupling between Fe <sub>2</sub> O <sub>3</sub> and FeTiO <sub>3</sub> : Insight into the mechanism of giant exchange bias in a natural nanoscale intergrowth. <i>Physical Review B</i> , 2007, 76, .	3.2	29
57	Magnetic phases in hemo-ilmenite: Insight from low-velocity and high-field Mössbauer spectroscopy. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	6
58	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
59	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
60	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
61	Magnetic exchange bias of more than 1 Tesla in a natural mineral intergrowth. <i>Nature Nanotechnology</i> , 2007, 2, 631-634.	31.5	74
62	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
63	Fe <sup>2+</sup> /Fe <sup>3+</sup> charge ordering in contact layers of lamellar magnetism: Bond valence arguments. <i>American Mineralogist</i> , 2006, 91, 67-72.	1.9	26
64	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
65	Nature and origin of lamellar magnetism in the hematite-ilmenite series. <i>American Mineralogist</i> , 2004, 89, 725-747.	1.9	89
66	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
67	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
68	Magnetic anomalies, layered intrusions and Mars. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	42
69	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
70	What is magnetic in the lower crust?. <i>Earth and Planetary Science Letters</i> , 2004, 226, 175-192.	4.4	74
71	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
72	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

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73	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
74	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
75	Lamellar magnetism in the haematite-ilmenite series as an explanation for strong remanent magnetization. <i>Nature</i> , 2002, 418, 517-520.	27.8	207
76	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
77	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
78	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
79	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
80	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
81	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
82	Magnetic anomalies of the mafic/ultramafic Seiland Igneous Province. <i>Norwegian Journal of Geology</i> , 0, , .	0.5	3
83	An Enigma in Rock Magnetism: Can Microstructures in Magnetite Cause a Threefold Increase in the Efficiency of NRM Acquisition in the Stardalur Basalts?. <i>Geophysical Journal International</i> , 0, , .	2.4	2