

Sara A Majetich

List of Publications by Year in descending order

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125
papers

6,707
citations

66343
42
h-index

62596
80
g-index

126
all docs

126
docs citations

126
times ranked

7984
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunnel magnetoresistance detection of skyrmions. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 541, 168552.	2.3	7
2	Bipolar Electric-Field Switching of Perpendicular Magnetic Tunnel Junctions through Voltage-Controlled Exchange Coupling. <i>Nano Letters</i> , 2022, 22, 622-629.	9.1	15
3	Magnetostatic coupling effects on reversal dynamics. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 265002.	2.8	0
4	Angle-dependent switching in a magnetic tunnel junction containing a synthetic antiferromagnet. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	0
5	Magnetic Nanoparticles., 2021, , 1-36.		0
6	Magnetic Nanoparticles., 2021, , 1011-1046.		0
7	Magnetic stray fields in nanoscale magnetic tunnel junctions. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 044001.	2.8	23
8	Tuning the dynamics in Fe ₃ O ₄ nanoparticles for hyperthermia optimization. <i>Applied Physics Letters</i> , 2020, 117, 073702.	3.3	9
9	The role of faceting and elongation on the magnetic anisotropy of magnetite Fe ₃ O ₄ nanocrystals. <i>Scientific Reports</i> , 2020, 10, 2722.	3.3	36
10	Magnetoresistance Dynamics in Superparamagnetic $\text{Co}_{\text{x}}\text{Fe}_{\text{3-x}}\text{O}_4$ Nanodots. <i>Physical Review Applied</i> , 2020, 13, .		
11	Effect of Mo capping in sub-100 nm CoFeB-MgO tunnel junctions with perpendicular magnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 483, 34-41.	2.3	1
12	Spin canting across core/shell Fe ₃ O ₄ /Mn _x Fe _{3-x} O ₄ nanoparticles. <i>Scientific Reports</i> , 2018, 8, 3425.	3.3	90
13	Magnetic vortices in nanocaps induced by curvature. <i>AIP Advances</i> , 2018, 8, 056321.	1.3	10
14	Spin waves across three-dimensional, close-packed nanoparticles. <i>New Journal of Physics</i> , 2018, 20, 123020.	2.9	6
15	Superparamagnetic perpendicular magnetic tunnel junctions for true random number generators. <i>AIP Advances</i> , 2018, 8, .	1.3	42
16	Spin-Orbit-Torque Switching in 20-nm Perpendicular Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , 2018, 10, .	3.8	10
17	Origin of reduced magnetization and domain formation in small magnetite nanoparticles. <i>Scientific Reports</i> , 2017, 7, 45997.	3.3	113
18	Magnetic properties of cube-shaped Fe ₃ O ₄ nanoparticles in dilute, 2D, and 3D assemblies. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 325003.	2.8	7

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19	Current control of time-averaged magnetization in superparamagnetic tunnel junctions. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	24
20	Formation of FePt nanodots by wetting of nanohole substrates. <i>AIP Advances</i> , 2016, 6, .	1.3	1
21	Magnetostatic effects on switching in small magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	14
22	Patterning of sub-50 nm perpendicular CoFeB/MgO-based magnetic tunnel junctions. <i>Nanotechnology</i> , 2016, 27, 185302.	2.6	7
23	Tracking the Verwey Transition in Single Magnetite Nanocrystals by Variable-Temperature Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1661-1666.	4.6	20
24	Size and voltage dependence of effective anisotropy in sub-100-nm perpendicular magnetic tunnel junctions. <i>Physical Review B</i> , 2016, 94, .	3.2	19
25	Krycka et al. Reply. <i>Physical Review Letters</i> , 2015, 114, 149702.	7.8	2
26	Conductive Atomic Force Microscopy of Small Magnetic Tunnel Junctions With Interface Anisotropy. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	6
27	Magnetic Fluctuations in Individual Superparamagnetic Particles. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	22
28	Frequency-dependent magnetic permeability of $Fe_{10}Co_{90}$ nanocomposites. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 175001.	2.8	21
29	The 2014 Magnetism Roadmap. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 333001.	2.8	329
30	Origin of Surface Canting within $Fe_{10}Co_{90}$. <i>Physical Review Letters</i> , 2014, 113, 147203.	2.7	87
31	Electrophoretic Deposition of Iron Oxide Nanoparticles on Templates. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18709-18718.	3.1	16
32	Composite magnetic-plasmonic nanoparticles for biomedicine: Manipulation and imaging. <i>Nano Today</i> , 2013, 8, 98-113.	11.9	93
33	Magnetic nanoparticles. <i>MRS Bulletin</i> , 2013, 38, 899-903.	3.5	49
34	Pattern transfer with stabilized nanoparticle etch masks. <i>Nanotechnology</i> , 2013, 24, 085303.	2.6	3
35	The magnetocaloric effect in thermally cycled polycrystalline Ni-Mn-Ga. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	16
36	Ten-Nanometer Dense Hole Arrays Generated by Nanoparticle Lithography. <i>Nano Letters</i> , 2012, 12, 5873-5878.	9.1	28

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37	Colloidal Stability and Magnetophoresis of Gold-Coated Iron Oxide Nanorods in Biological Media. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22561-22569.	3.1	41
38	Polarization-analyzed small-angle neutron scattering. II. Mathematical angular analysis. <i>Journal of Applied Crystallography</i> , 2012, 45, 554-565.	4.5	31
39	Ultra-Large-Area Self-Assembled Monolayers of Nanoparticles. <i>ACS Nano</i> , 2011, 5, 8868-8876.	14.6	111
40	Magnetophoresis of Nanoparticles. <i>ACS Nano</i> , 2011, 5, 217-226.	14.6	125
41	Functional Magnetic Nanoparticle Assemblies: Formation, Collective Behavior, and Future Directions. <i>ACS Nano</i> , 2011, 5, 6081-6084.	14.6	83
42	Nuclear magnetic resonance and magnetization study of surfactant-coated epsilon-Co nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 741-747.	1.5	10
43	Dipolar ferromagnetic phase transition in Fe ₃ O ₄ nanoparticle arrays observed by Lorentz microscopy and electron holography. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	55
44	Error analysis for small angle neutron scattering datasets using Bayesian inference. <i>Bayesian Analysis</i> , 2010, 5, .	3.0	13
45	Characterization of single-core magnetite nanoparticles for magnetic imaging by SQUID relaxometry. <i>Physics in Medicine and Biology</i> , 2010, 55, 5985-6003.	3.0	53
46	Core-Shell Magnetic Morphology of Structurally Uniform Magnetite Nanoparticles. <i>Physical Review Letters</i> , 2010, 104, 207203.	7.8	130
47	Investigating Pattern Transfer in the Small-Gap Regime Using Electron-Beam Stabilized Nanoparticle Array Etch Masks. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 2307-2310.	2.1	16
48	Characterization of Conducting Atomic Force Microscopy for Use With Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 1741-1744.	2.1	2
49	Preferential crystallographic alignment in polycrystalline MnP. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2571-2574.	2.3	7
50	Magnetoresistive telegraph noise in Langmuir-Blodgett films of colloidal magnetite nanocrystals as seen via scanning tunneling microscopy. <i>Physical Review B</i> , 2009, 80, .	3.2	6
51	Spin transfer torque switching of magnetic tunnel junctions using a conductive atomic force microscope. <i>Applied Physics Letters</i> , 2009, 95, 132510.	3.3	15
52	Plasmonic magnetic nanoparticles for biomedicine. , 2009, 2009, 4477-8.		2
53	Application of Image Processing to Characterize Patterning Noise in Self-Assembled Nano-Masks for Bit-Patterned Media. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 3523-3526.	2.1	54
54	Resolving 3D magnetism in nanoparticles using polarization analyzed SANS. <i>Physica B: Condensed Matter</i> , 2009, 404, 2561-2564.	2.7	33

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55	Optical and electron microscopy studies of Schiller layer formation and structure. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 394-400.	9.4	11
56	Optical imaging and magnetophoresis of nanorods. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1557-1562.	2.3	33
57	Stabilization of Superparamagnetic Iron Oxide Coreâ€˜Gold Shell Nanoparticles in High Ionic Strength Media. <i>Langmuir</i> , 2009, 25, 13384-13393.	3.5	120
58	Synthesis and Singleâ€€Particle Optical Detection of Lowâ€€Polydispersity Plasmonicâ€€Superparamagnetic Nanoparticles. <i>Advanced Materials</i> , 2008, 20, 1721-1726.	21.0	98
59	Scanning Tunneling Spectroscopy Study of Temperatureâ€€Dependent Magnetization Switching Dynamics in Magnetic Nanoparticle Arrays. <i>Israel Journal of Chemistry</i> , 2008, 48, 81-86.	2.3	0
60	Field evolution of magnetic correlation lengths in μ -Co nanoparticle assemblies. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	15
61	Intermag Europe 2008 Publication Chairs' Preface. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2461-2461.	2.1	0
62	Direct visualization of dipolar ferromagnetic domain structures in Co nanoparticle monolayers by electron holography. <i>Applied Physics Letters</i> , 2008, 93, 082502.	3.3	55
63	Magnetic Nanoparticles and Their Applications. , 2007, , 439-485.		8
64	Design and synthesis of plasmonic magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 311, 78-83.	2.3	43
65	Saturation of Nuclei Concentration in the Phase Transformation of FePt Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 3100-3102.	2.1	3
66	Size and Concentration Effects on High Frequency Hysteresis of Iron Oxide Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2451-2453.	2.1	87
67	Magnetostatic interactions in magnetic nanoparticle assemblies: energy, time and length scales. <i>Journal Physics D: Applied Physics</i> , 2006, 39, R407-R422.	2.8	163
68	Synthesis and Characterization of Paramagnetic Microparticles through Emulsion-Templated Free Radical Polymerization. <i>Langmuir</i> , 2006, 22, 2516-2522.	3.5	75
69	Advances in nanomagnetism via X-ray techniques. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 307, 1-31.	2.3	76
70	Small angle neutron scattering study of disordered and crystalline iron nanoparticle assemblies. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 303, 318-322.	2.3	28
71	Magnetic Interactions of Iron Nanoparticles in Arrays and Dilute Dispersions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13409-13419.	2.6	84
72	Detection of spin coupling in iron nanoparticles with small angle neutron scattering. <i>Applied Physics Letters</i> , 2005, 86, 243102.	3.3	27

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73	Size dependence, nucleation, and phase transformation of FePt nanoparticles. <i>Applied Physics Letters</i> , 2005, 87, 022508.	3.3	35
74	Size Effect Study of the L10 Phase Transformation in FePt Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2005, 877, 1.	0.1	0
75	Langmuir Layers of Magnetic Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2005, 877, 1.	0.1	2
76	TCE Dechlorination Rates, Pathways, and Efficiency of Nanoscale Iron Particles with Different Properties. <i>Environmental Science & Technology</i> , 2005, 39, 1338-1345.	10.0	708
77	Sintering prevention and phase transformation of FePt nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 284, 336-341.	2.3	42
78	Dipolar interactions and structural coherence in iron nanoparticle arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 282, 1-5.	2.3	19
79	Structural ordering effects in Fe nanoparticle two- and three-dimensional arrays. <i>Journal of Applied Physics</i> , 2004, 95, 6636-6638.	2.5	33
80	Preparation and Characterization of Monodisperse Fe Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11022-11030.	2.6	264
81	Patterning self-assembled FePt nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 266, 8-11.	2.3	26
82	Gold-coated iron nanoparticles for biomedical applications. <i>Journal of Applied Physics</i> , 2003, 93, 7551-7553.	2.5	219
83	Phase transformation and magnetic moment in FePt nanoparticles. <i>Journal of Applied Physics</i> , 2003, 93, 7411-7413.	2.5	42
84	Synthesis and magnetic behavior of SmCo ₅ (1-x)Fe _x nanocomposite magnets. <i>Journal of Applied Physics</i> , 2003, 93, 8146-8148.	2.5	26
85	Magnetic relaxation of iron nanoparticles. <i>Journal of Applied Physics</i> , 2002, 91, 6961.	2.5	28
86	Mesoscopic Monodisperse Ferromagnetic Colloids Enable Magnetically Controlled Photonic Crystals. <i>Journal of the American Chemical Society</i> , 2002, 124, 13864-13868.	13.7	142
87	Synthesis and Utilization of Monodisperse Superparamagnetic Colloidal Particles for Magnetically Controllable Photonic Crystals. <i>Chemistry of Materials</i> , 2002, 14, 1249-1256.	6.7	259
88	Photomagnetism and structure in cobalt ferrite nanoparticles. <i>Applied Physics Letters</i> , 2002, 80, 2341-2343.	3.3	153
89	Time dependent properties of iron nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 2194-2196.	2.1	23
90	Superparamagnetic Photonic Crystals. <i>Advanced Materials</i> , 2001, 13, 1681-1684.	21.0	236

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91	Effect of light on the magnetic properties of cobalt ferrite nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2000, 36, 3029-3031.	2.1	61
92	AC magnetic properties of FeCo nanocomposites. <i>IEEE Transactions on Magnetics</i> , 2000, 36, 3026-3028.	2.1	13
93	Microstructure and magnetic behavior of carbon-coated Co nanoparticles studied by nuclear magnetic resonance. <i>Applied Physics Letters</i> , 2000, 76, 94-96.	3.3	30
94	Hard Magnetic Nanoparticles and Nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , 1999, 577, 197.	0.1	4
95	Annealing effects on the coercivity of SmCo ₅ nanoparticles. <i>Journal of Applied Physics</i> , 1999, 85, 4331-4333.	2.5	14
96	Neutron powder diffraction of carbon-coated FeCo alloy nanoparticles. <i>Journal of Applied Physics</i> , 1999, 85, 4409-4411.	2.5	28
97	Magnetization Directions of Individual Nanoparticles. <i>Science</i> , 1999, 284, 470-473.	12.6	220
98	Size and interaction effects in the magnetization reversal in SmCo ₅ nanoparticles. <i>IEEE Transactions on Magnetics</i> , 1998, 34, 985-987.	2.1	9
99	Transmission Electron Microscopic Observations on Technegas and Pertechnegas. <i>Aerosol Science and Technology</i> , 1998, 28, 523-530.	3.1	1
100	Magnetic properties and ordering in C-coated Fe _x Co _{1-x} alloy nanocrystals. <i>Journal of Applied Physics</i> , 1998, 83, 6468-6470.	2.5	80
101	Magnetic evidence for structural-phase transformations in Fe-Co alloy nanocrystals produced by a carbon arc. <i>Journal of Applied Physics</i> , 1997, 81, 4039-4041.	2.5	59
102	Thermal Plasma Synthesis of Fe-Co Alloy Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 1997, 501, 121.	0.1	9
103	Dispersion and Lorentz Microscopy of Samarium Cobalt Nanoparticles in a Polymer Matrix. <i>Materials Research Society Symposia Proceedings</i> , 1997, 501, 103.	0.1	0
104	Magnetization reversal in SmCo ₅ nanoparticles. <i>IEEE Transactions on Magnetics</i> , 1997, 33, 3721-3723.	2.1	13
105	Electroreduction of Oxygen in Polymer Electrolyte Fuel Cells by Activated Carbon Coated Cobalt Nanocrystallites Produced by Electric Arc Discharge. <i>Chemistry of Materials</i> , 1997, 9, 784-790.	6.7	29
106	Surface structure of cadmium selenide nanocrystallites. <i>Physical Review B</i> , 1997, 55, 13822-13828.	3.2	70
107	Magnetic nanoparticles and magnetocrystalline anisotropy. <i>Scripta Materialia</i> , 1997, 37, 291-300.	0.5	56
108	Carbon Coated Nanoparticle Composites Synthesized in an RF Plasma Torch. <i>Materials Research Society Symposia Proceedings</i> , 1996, 457, 219.	0.1	11

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109	Magnetic properties of single domain samarium cobalt nanoparticles. <i>IEEE Transactions on Magnetics</i> , 1996, 32, 4502-4504.	2.1	45
110	Magnetic properties of monodomain Nd-Fe-B-C nanoparticles. <i>Journal of Applied Physics</i> , 1996, 79, 5293.	2.5	16
111	Synthesis, structure, and magnetic properties of Fe-Co alloy nanocrystals. <i>IEEE Transactions on Magnetics</i> , 1996, 32, 4842-4844.	2.1	25
112	Energy-Filtered Tem of Ag-Co Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1995, 403, 731.	0.1	1
113	Synthesis, structure, properties and magnetic applications of carbon-coated nanocrystals produced by a carbon arc. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 204, 19-24.	5.6	30
114	Morphology, structure, and growth of nanoparticles produced in a carbon arc. <i>Physical Review B</i> , 1995, 52, 12564-12571.	3.2	185
115	Magnetic properties of carbon-coated rare-earth carbide nanocrystallites produced by a carbon arc method. <i>Journal of Applied Physics</i> , 1994, 75, 5879-5881.	2.5	29
116	¹ H NMR Characterization of the CdSe Nanocrystallite Surface. <i>The Journal of Physical Chemistry</i> , 1994, 98, 13705-13710.	2.9	59
117	Superparamagnetism in carbon-coated Co particles produced by the Kratschmer carbon arc process. <i>Physical Review B</i> , 1994, 49, 11358-11363.	3.2	257
118	Magnetic properties of carbon-coated, ferromagnetic nanoparticles produced by a carbon arc method. <i>Journal of Applied Physics</i> , 1994, 75, 5882-5884.	2.5	77
119	Determination of the Number of Molecules Bonded to a CdSe Nanocrystallite Surface. <i>Materials Research Society Symposia Proceedings</i> , 1994, 332, 321.	0.1	1
120	Novel coordination complexes of tetrathiafulvalene derivatives. <i>Synthetic Metals</i> , 1993, 56, 1989-1994.	3.9	9
121	Preparation and properties of carbon-coated magnetic nanocrystallites. <i>Physical Review B</i> , 1993, 48, 16845-16848.	3.2	153
122	Connected Cadmium Selenide Nanocrystallite Networks. <i>Materials Research Society Symposia Proceedings</i> , 1992, 286, 87.	0.1	1
123	Associative ionization and dissociative recombination in mercury vapor. <i>Journal of Applied Physics</i> , 1991, 69, 563-568.	2.5	7
124	Absolute rate coefficients for energy pooling of Hg(6P13). <i>Physical Review A</i> , 1990, 41, 6085-6089.	2.5	8
125	Energy pooling and associative ionization following laser excitation of mercury vapor. <i>Journal of Applied Physics</i> , 1989, 66, 475-481.	2.5	20