

Laura Heyderman

List of Publications by Year in descending order

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201
papers

9,775
citations

36303

51
h-index

42399

92
g-index

204
all docs

204
docs citations

204
times ranked

7483
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray investigation of long-range antiferromagnetic ordering in FeRh. AIP Advances, 2022, 12, 035048.	1.3	3
2	Geometrical control of disorder-induced magnetic domains in planar synthetic antiferromagnets. Physical Review Materials, 2022, 6, .	2.4	1
3	Real-space imaging of phase transitions in bridged artificial kagome spin ice. Nature Physics, 2022, 18, 699-705.	16.7	13
4	Spin ice devices from nanomagnets. Nature Nanotechnology, 2022, 17, 435-436.	31.5	4
5	Precessional dynamics of geometrically scaled magnetostatic spin waves in two-dimensional magnonic fractals. Physical Review B, 2022, 105, .	3.2	2
6	Determination of sub-ps lattice dynamics in FeRh thin films. Scientific Reports, 2022, 12, .	3.3	1
7	Experimental observation of vortex rings in a bulk magnet. Nature Physics, 2021, 17, 316-321.	16.7	42
8	Route to tunable room temperature electric polarization in SrTiO ₃ /CoFe ₂ O ₄ heterostructures. Journal of Materials Chemistry C, 2021, 9, 5977-5984.	5.5	1
9	Direct observation of spin correlations in an artificial triangular lattice Ising spin system with grazing-incidence small-angle neutron scattering. Nanoscale Horizons, 2021, 6, 474-481.	8.0	5
10	Spin-Wave Emission from Vortex Cores under Static Magnetic Bias Fields. Nano Letters, 2021, 21, 1584-1590.	9.1	18
11	Spin-Wave Dynamics and Symmetry Breaking in an Artificial Spin Ice. Nano Letters, 2021, 21, 2382-2389.	9.1	7
12	Field- and Current-Driven Magnetic Domain-Wall Inverter and Diode. Physical Review Applied, 2021, 15, .	3.8	12
13	Magnetic logic driven by electric current. Physics Today, 2021, 74, 62-63.	0.3	1
14	Synchronization of chiral vortex nano-oscillators. Applied Physics Letters, 2021, 118, .	3.3	15
15	Artificial out-of-plane Ising antiferromagnet on the kagome lattice with very small farther-neighbor couplings. Physical Review B, 2021, 104, .	3.2	10
16	Mesoscopic magnetic systems: From fundamental properties to devices. Applied Physics Letters, 2021, 119, 080401.	3.3	4
17	Engineering of Intrinsic Chiral Torques in Magnetic Thin Films Based on the Dzyaloshinskii-Moriya Interaction. Physical Review Applied, 2021, 16, .	3.8	3
18	Advances in artificial spin ice. Nature Reviews Physics, 2020, 2, 13-28.	26.6	224

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19	Electroless Deposition of Ni-Fe Alloys on Scaffolds for 3D Nanomagnetism. <i>Small</i> , 2020, 16, e2004099.	10.0	16
20	Control of emergent magnetic monopole currents in artificial spin ice. <i>Physical Review B</i> , 2020, 102, .	3.2	9
21	Synthetic chiral magnets promoted by the Dzyaloshinskii-Moriya interaction. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	22
22	Relation between microscopic interactions and macroscopic properties in ferroics. <i>Nature Nanotechnology</i> , 2020, 15, 896-900.	31.5	11
23	Evolution of field-induced metastable phases in the Shastry-Sutherland lattice magnet TmB_4 . <i>Physical Review B</i> , 2020, 102, .		
24	Thermally superactive artificial kagome spin ice structures obtained with the interfacial Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2020, 102, .	3.2	15
25	Control of damping in perpendicularly magnetized thin films using spin-orbit torques. <i>Physical Review B</i> , 2020, 101, .	3.2	8
26	Switchable adhesion of soft composites induced by a magnetic field. <i>Soft Matter</i> , 2020, 16, 5806-5811.	2.7	24
27	Ultrafast laser induced precessional dynamics in antiferromagnetically coupled ferromagnetic thin films. <i>Physical Review B</i> , 2020, 101, .	3.2	7
28	Current-driven magnetic domain-wall logic. <i>Nature</i> , 2020, 579, 214-218.	27.8	260
29	Time-resolved imaging of three-dimensional nanoscale magnetization dynamics. <i>Nature Nanotechnology</i> , 2020, 15, 356-360.	31.5	67
30	Controlled motion of skyrmions in a magnetic antidot lattice. <i>Physical Review B</i> , 2020, 102, .	3.2	26
31	Anisotropy-induced spin reorientation in chemically modulated amorphous ferrimagnetic films. <i>Physical Review Materials</i> , 2020, 4, .	2.4	14
32	Chiral Domain Wall Injector Driven by Spin-Orbit Torques. <i>Nano Letters</i> , 2019, 19, 5930-5937.	9.1	24
33	Nanomagnetic encoding of shape-morphing micromachines. <i>Nature</i> , 2019, 575, 164-168.	27.8	307
34	Formation of Néel-type skyrmions in an antidot lattice with perpendicular magnetic anisotropy. <i>Physical Review B</i> , 2019, 100, .	3.2	18
35	Continuous magnetic phase transition in artificial square ice. <i>Physical Review B</i> , 2019, 99, .	3.2	41
36	Engineering Relaxation Pathways in Building Blocks of Artificial Spin Ice for Computation. <i>Physical Review Applied</i> , 2019, 11, .	3.8	51

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37	Magnetically Addressable Shape-Memory and Stiffening in a Composite Elastomer. <i>Advanced Materials</i> , 2019, 31, e1900561.	21.0	91
38	Chirally coupled nanomagnets. <i>Science</i> , 2019, 363, 1435-1439.	12.6	123
39	Continuous ground-state degeneracy of classical dipoles on regular lattices. <i>Physical Review B</i> , 2019, 100, .	3.2	9
40	Characterisation of size distribution and positional misalignment of nanoscale islands by small-angle X-ray scattering. <i>Journal of Applied Physics</i> , 2019, 125, 014301.	2.5	0
41	Poling of an artificial magneto-toroidal crystal. <i>Nature Nanotechnology</i> , 2019, 14, 141-144.	31.5	30
42	Computational logic with square rings of nanomagnets. <i>Nanotechnology</i> , 2018, 29, 265205.	2.6	52
43	Hard X-ray Magnetic Tomography: A New Technique For The Visualization Of Three Dimensional Magnetic Structures. <i>Microscopy and Microanalysis</i> , 2018, 24, 82-83.	0.4	0
44	Direct observation of electron density reconstruction at the metal-insulator transition in NaOsO_3 . <i>Physical Review B</i> , 2018, 98, .	11.2	7
45	Observation of the out-of-plane magnetization in a mesoscopic ferromagnetic structure superjacent to a superconductor. <i>Applied Physics Letters</i> , 2018, 113, 162601.	3.3	2
46	Collective magnetism in an artificial 2D XY spin system. <i>Nature Communications</i> , 2018, 9, 2850.	12.8	37
47	Generation of coherent extreme ultraviolet radiation from LiF quartz using 50-fs laser pulses at a 1030-nm wavelength and high repetition rates. <i>Optics Letters</i> , 2018, 43, 1790.	3.3	18
48	Phase diagram of dipolar-coupled XY moments on disordered square lattices. <i>Physical Review B</i> , 2018, 98, .	3.2	11
49	Tomographic reconstruction of a three-dimensional magnetization vector field. <i>New Journal of Physics</i> , 2018, 20, 083009.	2.9	35
50	Vortex motion in amorphous ferrimagnetic thin film elements. <i>AIP Advances</i> , 2017, 7, .	1.3	4
51	Emergent dynamic chirality in a thermally driven artificial spin ratchet. <i>Nature Materials</i> , 2017, 16, 1106-1111.	27.5	61
52	Three-dimensional magnetization structures revealed with X-ray vector nanotomography. <i>Nature</i> , 2017, 547, 328-331.	27.8	221
53	Magnetic charge and moment dynamics in artificial kagome spin ice. <i>Physical Review B</i> , 2017, 96, .	3.2	31
54	Tunable magnetic vortex resonance in a potential well. <i>Physical Review B</i> , 2017, 96, .	3.2	1

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55	Interfacial room temperature magnetism and enhanced magnetocaloric effect in strained $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ heterostructures. <i>Physical Review B</i> , 2017, 96, .	14.9	68
56	CoFe_2O_4 and $\text{CoFe}_2\text{O}_4/\text{SiO}_2$ Nanoparticle Thin Films with Perpendicular Magnetic Anisotropy for Magnetic and Magneto-Optical Applications. <i>Advanced Functional Materials</i> , 2016, 26, 1954-1963.	2.5	5
57	Switching field distribution of exchange coupled ferri-/ferromagnetic composite bit patterned media. <i>Journal of Applied Physics</i> , 2016, 120, .	14.6	48
58	Nanoparticle-Based Magnetoelectric $\text{BaTiO}_3/\text{CoFe}_2\text{O}_4$ Thin Film Heterostructures for Voltage Control of Magnetism. <i>ACS Nano</i> , 2016, 10, 9840-9851.	3.2	5
59	Complex spin configurations in hybrid magnetic multilayer structures due to mutual spin imprinting. <i>Physical Review B</i> , 2016, 94, .	3.2	36
60	Magnetic diffuse scattering in artificial kagome spin ice. <i>Physical Review B</i> , 2016, 93, .	3.2	30
61	High-resolution hard x-ray magnetic imaging with dichroic ptychography. <i>Physical Review B</i> , 2016, 94, .	3.3	3
62	Magnetic Phases of Sputter Deposited Thin-Film Erbium. <i>Scientific Reports</i> , 2016, 6, 39021.	3.2	38
63	Broken vertex symmetry and finite zero-point entropy in the artificial square ice ground state. <i>Physical Review B</i> , 2015, 92, .	7.8	80
64	Element-Specific X-Ray Phase Tomography of 3D Structures at the Nanoscale. <i>Physical Review Letters</i> , 2015, 114, 115501.	2.5	13
65	Micromagnetic simulation of exchange coupled ferri-/ferromagnetic composite in bit patterned media. <i>Journal of Applied Physics</i> , 2015, 117, .	12.8	109
66	Thermodynamic phase transitions in a frustrated magnetic metamaterial. <i>Nature Communications</i> , 2015, 6, 8278.	12.8	32
67	Nanoscale switch for vortex polarization mediated by Bloch core formation in magnetic hybrid systems. <i>Nature Communications</i> , 2015, 6, 7836.	2.9	21
68	Focus on artificial frustrated systems. <i>New Journal of Physics</i> , 2014, 16, 075016.	3.3	18
69	Topologically confined vortex oscillations in hybrid [Co/Pd] ₈ -Permalloy structures. <i>Applied Physics Letters</i> , 2014, 104, .	3.2	34
70	Thermally induced magnetic relaxation in building blocks of artificial kagome spin ice. <i>Physical Review B</i> , 2014, 89, .	31.5	136
71	Thermal fluctuations in artificial spin ice. <i>Nature Nanotechnology</i> , 2014, 9, 514-519.	7.8	189
72	Single Domain Spin Manipulation by Electric Fields in Strain Coupled Artificial Multiferroic Nanostructures. <i>Physical Review Letters</i> , 2013, 111, 027204.		

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73	The effect of magnetic anisotropy on the spin configurations of patterned $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ elements. Journal of Physics Condensed Matter, 2013, 25, 176004.	1.8	5
74	Artificial ferroic systems: novel functionality from structure, interactions and dynamics. Journal of Physics Condensed Matter, 2013, 25, 363201.	1.8	185
75	Strain-dependent magnetic configurations in manganite-titanate heterostructures probed with soft X-ray techniques. European Physical Journal B, 2013, 86, 1.	1.5	17
76	Crystal-clear order. Nature Nanotechnology, 2013, 8, 705-706.	31.5	14
77	Optimal ferromagnetically-coated carbon nanotube tips for ultra-high resolution magnetic force microscopy. Nanotechnology, 2013, 24, 105705.	2.6	14
78	Domain-Wall Induced Large Magnetoresistance Effects at Zero Applied Field in Ballistic Nanocontacts. Physical Review Letters, 2013, 110, 067203.	7.8	16
79	Dynamic stabilization of nonequilibrium domain configurations in magnetic squares with high amplitude excitations. Physical Review B, 2013, 87, .	3.2	4
80	Competing Interactions in Patterned and Self-Assembled Magnetic Nanostructures. Springer Tracts in Modern Physics, 2013, , 189-234.	0.1	14
81	Exploring hyper-cubic energy landscapes in thermally active finite artificial spin-ice systems. Nature Physics, 2013, 9, 375-382.	16.7	147
82	Direct Observation of Thermal Relaxation in Artificial Spin Ice. Physical Review Letters, 2013, 111, 057204.	7.8	154
83	Extended reciprocal space observation of artificial spin ice with x-ray resonant magnetic scattering. Physical Review B, 2013, 88, .	3.2	15
84	Controlling vortex chirality in hexagonal building blocks of artificial spin ice. New Journal of Physics, 2013, 15, 125033.	2.9	16
85	Thermalized ground state of artificial kagome spin ice building blocks. Applied Physics Letters, 2012, 101, .	3.3	57
86	Artificial kagome spin ice: dimensional reduction, avalanche control and emergent magnetic monopoles. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5767-5782.	3.4	38
87	Control of the magnetization in pre-patterned half-metallic $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ nanostructures. Journal of Applied Physics, 2012, 112, 103921.	2.5	7
88	Emergent magnetic monopoles, disorder, and avalanches in artificial kagome spin ice (invited). Journal of Applied Physics, 2012, 111, 07E103.	2.5	21
89	Nanostructuring of GdFeCo Thin Films for Laser Induced Magnetization Switching. Journal of the Magnetics Society of Japan, 2012, 36, 21-23.	0.9	8
90	Ultrafast heating as a sufficient stimulus for magnetization reversal in a ferrimagnet. Nature Communications, 2012, 3, 666.	12.8	588

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91	Demonstration of laser induced magnetization reversal in GdFeCo nanostructures. Applied Physics Letters, 2012, 101, .	3.3	54
92	Spatially resolved strain-imprinted magnetic states in an artificial multiferroic. Physical Review B, 2012, 86, .	3.2	68
93	Element-Specific Hysteresis Loop Measurements on Individual 35 nm Islands with Scanning Transmission X-Ray Microscopy. Journal of Nanoscience and Nanotechnology, 2012, 12, 2484-2488.	0.9	0
94	Formation of magnetic domains and domain walls in epitaxial Fe ₃ O ₄ (100) elements (invited). Journal of Applied Physics, 2011, 109, 07D315.	2.5	23
95	Control of spin configuration in half-metallic La _{0.7} Sr _{0.3} MnO ₃ nano-structures. Applied Physics Letters, 2011, 99, 062508.	3.3	23
96	Spin configurations in Co ₂ FeAl _{0.4} Si _{0.6} Heusler alloy thin film elements. Applied Physics Letters, 2011, 99, .	3.3	13
97	Concurrent field enhancement and high transmission of THz radiation in nanoslit arrays. Applied Physics Letters, 2011, 99, .	3.3	51
98	Real-space observation of emergent magnetic monopoles and associated Dirac strings in artificial kagome spin ice. Nature Physics, 2011, 7, 68-74.	16.7	348
99	Tuneable magnetic patterning of paramagnetic Fe ₆₀ Al ₄₀ (at. %) by consecutive ion irradiation through pre-lithographed shadow masks. Journal of Applied Physics, 2011, 109, 093918.	2.5	10
100	Domain wall velocity measurement in permalloy nanowires with X-ray magnetic circular dichroism imaging and single shot Kerr microscopy. Journal of Magnetism and Magnetic Materials, 2010, 322, 1347-1352.	2.3	10
101	Tailoring laser-induced domain wall pinning. Solid State Communications, 2010, 150, 489-491.	1.9	17
102	Current-induced domain wall motion in Ni ₈₀ Fe ₂₀ nanowires with low depinning fields. Journal Physics D: Applied Physics, 2010, 43, 045003.	2.8	9
103	Size-Dependent Spin Structures in Iron Nanoparticles. Physical Review Letters, 2010, 104, 127201.	7.8	48
104	Direct Determination of Large Spin-Torque Nonadiabaticity in Vortex Core Dynamics. Physical Review Letters, 2010, 105, 187203.	7.8	58
105	Imaging of Domain Wall Inertia in Permalloy Half-Ring Nanowires by Time-Resolved Photoemission Electron Microscopy. Physical Review Letters, 2010, 104, 067201.	7.8	49
106	Nonadiabatic Spin Torque Investigated Using Thermally Activated Magnetic Domain Wall Dynamics. Physical Review Letters, 2010, 105, 056601.	7.8	86
107	Magnetic-field-induced domain-wall motion in permalloy nanowires with modified Gilbert damping. Physical Review B, 2010, 82, .	3.2	26
108	Direct imaging of current induced magnetic vortex gyration in an asymmetric potential well. Applied Physics Letters, 2010, 96, 152506.	3.3	15

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109	Direct observation of high velocity current induced domain wall motion. Applied Physics Letters, 2010, 96, 032504.	3.3	33
110	Domain-Wall Depinning Assisted by Pure Spin Currents. Physical Review Letters, 2010, 105, 076601.	7.8	44
111	Current-induced vortex dynamics and pinning potentials probed by homodyne detection. Physical Review B, 2010, 82, .	3.2	42
112	Magneto-resistance measurement of tailored Permalloy nanocontacts. Physical Review B, 2010, 82, .	3.2	9
113	Direct Magnetic Patterning due to the Generation of Ferromagnetism by Selective Ion Irradiation of Paramagnetic FeAl Alloys. Small, 2009, 5, 229-234.	10.0	71
114	Scaling of spin relaxation and angular momentum dissipation in permalloy nanowires. Physical Review B, 2009, 80, .	3.2	26
115	Geometry-dependent scaling of critical current densities for current-induced domain wall motion and transformations. Physical Review B, 2009, 80, .	3.2	8
116	Effects of combined current injection and laser irradiation on Permalloy microwire switching. Applied Physics Letters, 2009, 95, 212502.	3.3	8
117	Template-directed self-assembled magnetic nanostructures for probe recording. Applied Physics Letters, 2009, 95, 023116.	3.3	18
118	Direct evidence of imprinted vortex states in the antiferromagnet of exchange biased microdisks. Applied Physics Letters, 2009, 95, .	3.3	24
119	Reversible switching between bidomain states by injection of current pulses in a magnetic wire with out-of-plane magnetization. Journal of Applied Physics, 2009, 105, 07C106.	2.5	18
120	Extreme ultraviolet interference lithography at the Paul Scherrer Institut. Journal of Micro/Nanolithography, MEMS, and MOEMS, 2009, 8, 021204.	0.9	75
121	Dipolar energy states in clusters of perpendicular magnetic nanoislands. Journal of Applied Physics, 2009, 105, .	2.5	35
122	Concepts for Domain Wall Motion in Nanoscale Ferromagnetic Elements due to Spin Torque and in Particular Oersted Fields. Journal of Magnetism, 2009, 14, 53-61.	0.4	9
123	Building blocks of an artificial kagome spin ice: Photoemission electron microscopy of arrays of ferromagnetic islands. Physical Review B, 2008, 78, .	3.2	106
124	Large-Scale Synthesis of Single-Crystalline Iron Oxide Magnetic Nanorings. Journal of the American Chemical Society, 2008, 130, 16968-16977.	13.7	438
125	Quantitative determination of vortex core dimensions in head-to-head domain walls using off-axis electron holography. Applied Physics Letters, 2008, 92, 112502.	3.3	19
126	Selective domain wall depinning by localized Oersted fields and Joule heating. Applied Physics Letters, 2008, 93, 132503.	3.3	20

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127	Single shot Kerr magnetometer for observing real-time domain wall motion in permalloy nanowires. Journal Physics D: Applied Physics, 2008, 41, 164009.	2.8	18
128	Nanoscale perpendicular magnetic island arrays fabricated by extreme ultraviolet interference lithography. Applied Physics Letters, 2008, 92, .	3.3	22
129	Correlation between magnetic spin structure and the three-dimensional geometry in chemically synthesized nanoscale magnetite rings. Applied Physics Letters, 2008, 92, .	3.3	9
130	Relationship between Nonadiabaticity and Damping in Permalloy Studied by Current Induced Spin Structure Transformations. Physical Review Letters, 2008, 100, 066603.	7.8	78
131	Easy axis magnetization reversal in cobalt antidot arrays. Journal of Applied Physics, 2008, 103, 07D509.	2.5	17
132	Direct imaging of current-induced domain wall motion in CoFeB structures. Journal of Applied Physics, 2008, 103, .	2.5	18
133	Domain Wall Spin Structures in 3d Metal Ferromagnetic Nanostructures. , 2008, , 281-293.		3
134	Antiferromagnetic domain configurations in patterned LaFeO ₃ thin films. Journal of Physics Condensed Matter, 2007, 19, 386214.	1.8	7
135	Spin torque and heating effects in current-induced domain wall motion probed by transmission electron microscopy. Applied Physics Letters, 2007, 90, 132506.	3.3	57
136	Transverse domain walls in nanoconstrictions. Applied Physics Letters, 2007, 91, 112502.	3.3	39
137	Ferromagnetic nanorings. Journal of Physics Condensed Matter, 2007, 19, 255207.	1.8	68
138	Domain walls, domain wall transformations and structural changes in permalloy nanowires when subjected to current pulses. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3922-3928.	1.8	22
139	Cobalt antidot arrays on membranes: Fabrication and investigation with transmission X-ray microscopy. Journal of Magnetism and Magnetic Materials, 2007, 316, 99-102.	2.3	12
140	X-ray imaging and spectroscopy of individual cobalt nanoparticles using photoemission electron microscopy. Journal of Magnetism and Magnetic Materials, 2007, 316, 426-428.	2.3	28
141	Magnetization reversal in cobalt antidot arrays. Physical Review B, 2006, 73, .	3.2	91
142	Sign dependence of the x-ray magnetic linear dichroism on the antiferromagnetic spin axis in LaFeO ₃ thin films. Physical Review B, 2006, 73, .	3.2	66
143	Magnetic states in wide annular structures. Journal of Applied Physics, 2006, 99, 08G308.	2.5	12
144	Observation of thermally activated domain wall transformations. Applied Physics Letters, 2006, 88, 052507.	3.3	96

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145	Quantitative determination of domain wall coupling energetics. Applied Physics Letters, 2006, 88, 212510.	3.3	39
146	Fabrication of curved-line nanostructures on membranes for transmission electron microscopy investigations of domain walls. Microelectronic Engineering, 2006, 83, 1726-1729.	2.4	13
147	Fundamental magnetic states of disk and ring elements. Nuclear Instruments & Methods in Physics Research B, 2006, 246, 13-19.	1.4	23
148	Current-induced vortex nucleation and annihilation in vortex domain walls. Applied Physics Letters, 2006, 88, 232507.	3.3	85
149	Spatially Resolved Dynamic Eigenmode Spectrum of Co Rings. Physical Review Letters, 2006, 96, 057207.	7.8	67
150	Photoemission electron microscopy study of remanent magnetic domain states in ferromagnetic wedge films deposited on substrates with micrometer-sized square plateaus. Journal of Applied Physics, 2006, 99, 063904.	2.5	17
151	Permalloy thin films exchange coupled to arrays of cobalt islands. Applied Physics Letters, 2006, 89, 142508.	3.3	19
152	Electro-osmotic pumping on application of phase-shifted signals to interdigitated electrodes. Sensors and Actuators B: Chemical, 2005, 110, 157-163.	7.8	21
153	Fabrication of magnetic ring structures for Lorentz electron microscopy. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 86-89.	2.3	13
154	Spin switching phase diagram of mesoscopic ring magnets. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 61-67.	2.3	42
155	Domain wall coupling and collective switching in interacting mesoscopic ring magnet arrays. Applied Physics Letters, 2005, 86, 032504.	3.3	32
156	Controlled and Reproducible Domain Wall Displacement by Current Pulses Injected into Ferromagnetic Ring Structures. Physical Review Letters, 2005, 94, 106601.	7.8	301
157	Multiplicity of magnetic domain states in circular elements probed by photoemission electron microscopy. Physical Review B, 2005, 72, .	3.2	35
158	Direct observation of domain-wall pinning at nanoscale constrictions. Applied Physics Letters, 2005, 87, 102509.	3.3	127
159	Fabrication of nanoscale antidot arrays and magnetic observations using x-ray photoemission electron microscopy. Journal of Applied Physics, 2004, 95, 6651-6653.	2.5	12
160	Arrays of nanoscale magnetic dots: Fabrication by x-ray interference lithography and characterization. Applied Physics Letters, 2004, 85, 4989-4991.	3.3	83
161	Spin configurations and classification of switching processes in ferromagnetic rings down to sub-dimensions. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1631-1636.	2.3	26
162	Photoemission electron microscopy investigation of patterned cobalt/Terfenol-D sandwich films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1311-E1312.	2.3	0

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163	Domain wall behaviour at constrictions in ferromagnetic ring structures. <i>Physica B: Condensed Matter</i> , 2004, 343, 343-349.	2.7	38
164	Effect of the magnetocrystalline anisotropy on the magnetic behavior of ring elements. <i>Journal of Applied Physics</i> , 2004, 95, 6732-6734.	2.5	8
165	Switching processes and switching reproducibility in ferromagnetic ring structures. <i>Applied Physics Letters</i> , 2004, 84, 951-953.	3.3	52
166	Head-to-head domain-wall phase diagram in mesoscopic ring magnets. <i>Applied Physics Letters</i> , 2004, 85, 5637-5639.	3.3	118
167	Multistep switching phase diagram of ferromagnetic ring structures. <i>Journal of Applied Physics</i> , 2004, 95, 6639-6641.	2.5	23
168	Electro-osmotic streaming on application of traveling-wave electric fields. <i>Physical Review E</i> , 2004, 70, 036305.	2.1	73
169	Fabrication of nanoscale magnetic ring structures and devices. <i>Microelectronic Engineering</i> , 2004, 73-74, 780-784.	2.4	0
170	High volume fabrication of customised nanopore membrane chips. <i>Microelectronic Engineering</i> , 2003, 67-68, 208-213.	2.4	47
171	Switching field phase diagram of Co nanoring magnets. <i>Applied Physics Letters</i> , 2003, 82, 2470-2472.	3.3	122
172	X-ray photoemission electron microscopy investigation of magnetic thin film antidot arrays. <i>Applied Physics Letters</i> , 2003, 83, 1797-1799.	3.3	39
173	Fabrication and anisotropy investigations of patterned epitaxial magnetic films using a lift-off process. <i>Journal of Applied Physics</i> , 2003, 93, 7349-7351.	2.5	5
174	Domain wall motion induced by spin polarized currents in ferromagnetic ring structures. <i>Applied Physics Letters</i> , 2003, 83, 105-107.	3.3	172
175	Direct observation of spin configurations and classification of switching processes in mesoscopic ferromagnetic rings. <i>Physical Review B</i> , 2003, 68, .	3.2	83
176	Nanoscale ferromagnetic rings fabricated by electron-beam lithography. <i>Journal of Applied Physics</i> , 2003, 93, 10011-10013.	2.5	63
177	Nanorheology. <i>Nanostructure Science and Technology</i> , 2003, , 47-76.	0.1	7
178	Efficient Replication of Nanostructured Surfaces. <i>Chimia</i> , 2002, 56, 543-546.	0.6	10
179	Chemical nano-patterning using hot embossing lithography. <i>Microelectronic Engineering</i> , 2002, 61-62, 423-428.	2.4	37
180	Nanofabrication using hot embossing lithography and electroforming. <i>Microelectronic Engineering</i> , 2001, 57-58, 375-380.	2.4	60

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181	Pattern formation in hot embossing of thin polymer films. <i>Nanotechnology</i> , 2001, 12, 173-177.	2.6	129
182	Nanoreplication in polymers using hot embossing and injection molding. <i>Microelectronic Engineering</i> , 2000, 53, 171-174.	2.4	151
183	Flow behaviour of thin polymer films used for hot embossing lithography. <i>Microelectronic Engineering</i> , 2000, 54, 229-245.	2.4	344
184	Electron beam fabrication and characterization of high-resolution magnetic force microscopy tips. <i>Journal of Applied Physics</i> , 1996, 79, 2913-2919.	2.5	37
185	In-situ magnetising experiments using coherent magnetic imaging in TEM. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 148, 232-236.	2.3	38
186	Amorphous melt spun ribbons and sputtered thin films – investigation of the magnetic domain structures by TEM. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 148, 433-445.	2.3	11
187	Micromagnetic and microstructural studies of NdFeB by TEM. <i>Scripta Metallurgica Et Materialia</i> , 1995, 33, 1807-1816.	1.0	8
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