Christian Back

List of Publications by Year
in descending order

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209	11,610	28274	30922
papers	citations	55 h-index	102 g-index

217	217	217	8285
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spin Hall effects. Reviews of Modern Physics, 2015, 87, 1213-1260.	45.6	2,087
2	Magnetic vortex core reversal by excitation with short bursts of an alternating field. Nature, 2006, 444, 461-464.	27.8	756
3	The 2021 Magnonics Roadmap. Journal of Physics Condensed Matter, 2021, 33, 413001.	1.8	287
4	Minimum Field Strength in Precessional Magnetization Reversal. Science, 1999, 285, 864-867.	12.6	272
5	Imaging Precessional Motion of the Magnetization Vector. Science, 2000, 290, 492-495.	12.6	235
6	Magnetic vortex core reversal by excitation of spin waves. Nature Communications, 2011, 2, 279.	12.8	202
7	Fourier Transform Imaging of Spin Vortex Eigenmodes. Physical Review Letters, 2004, 93, 077207.	7.8	199
8	Magnetization Reversal in Ultrashort Magnetic Field Pulses. Physical Review Letters, 1998, 81, 3251-3254.	7.8	184
9	Advances in Magnetics Roadmap on Spin-Wave Computing. IEEE Transactions on Magnetics, 2022, 58, 1-72.	2.1	179
10	Quantitative Analysis of Magnetic Excitations in Landau Flux-Closure Structures Using Synchrotron-Radiation Microscopy. Physical Review Letters, 2005, 94, 217204.	7.8	155
11	Morphology-Induced Oscillations of the Magnetic Anisotropy in Ultrathin Co Films. Physical Review Letters, 1996, 76, 1940-1943.	7.8	152
12	High-resolution imaging of fast magnetization dynamics in magnetic nanostructures. Applied Physics Letters, 2004, 84, 3328-3330.	3.3	144
13	Magnetic switching in cobalt films by adsorption of copper. Nature, 1995, 374, 788-790.	27.8	138
14	Spin-Wave Eigenmodes of Permalloy Squares with a Closure Domain Structure. Physical Review Letters, 2005, 94, 057202.	7.8	133
15	Polarization Selective Magnetic Vortex Dynamics and Core Reversal in Rotating Magnetic Fields. Physical Review Letters, 2008, 101, 197204.	7.8	133
16	Transverse Spin Seebeck Effect versus Anomalous and Planar Nernst Effects in Permalloy Thin Films. Physical Review Letters, 2013, 111, 187201.	7.8	127
17	Advanced photoelectric effect experiment beamline at Elettra: A surface science laboratory coupled with Synchrotron Radiation. Review of Scientific Instruments, 2009, 80, 043105.	1.3	126
18	Microwave Assisted Switching of Single Domain<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ni</mml:mi><mml:mn>80</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:m Physical Review Letters, 2007, 99, 227207.	7.8	125

#	Article	IF	Citations
19	Magnetization dynamics of the ferrimagnet CoGd near the compensation of magnetization and angular momentum. Physical Review B, 2006, 74, .	3.2	124
20	Anisotropic Propagation and Damping of Spin Waves in a Nanopatterned Antidot Lattice. Physical Review Letters, 2010, 105, 067208.	7.8	122
21	Damping by Slow Relaxing Rare Earth Impurities in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ni</mml:mi><mml:mn>80</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mn Physical Review Letters, 2009, 102, 257602.	7.8	121
22	Speed limit of the insulatorâ€“metal transition inÂmagnetite. Nature Materials, 2013, 12, 882-886.	27.5	121
23	Inverse spin Hall effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Ni</mml:mtext><mml:mn>81</mml:mn></mml:msub><mml:msub><mml:mtext>Fe</mml:mtext><mml:mn>19</mml:mn></mml:ms bilayers. Physical Review B, 2014, 89, .	3.2	121
24	Comparison of frequency, field, and time domain ferromagnetic resonance methods. Journal of Magnetism and Magnetic Materials, 2006, 307, 148-156.	2.3	119
25	Spin dynamics of the antiferromagnetic-to-ferromagnetic phase transition in FeRh on a sub-picosecond time scale. Applied Physics Letters, 2004, 85, 2857-2859.	3.3	117
26	X-ray imaging of the dynamic magnetic vortex core deformation. Nature Physics, 2009, 5, 332-334.	16.7	117
27	Entropy-limited topological protection of skyrmions. Science Advances, 2017, 3, e1701704.	10.3	116
28	Spin Hall voltages from a.c. and d.c. spin currents. Nature Communications, 2014, 5, 3768.	12.8	99
29	Oscillatory Magnetic Anisotropy and Quantum Well States in Cu/Co/Cu(100) Films. Physical Review Letters, 1996, 76, 3424-3427.	7.8	98
30	Tuning Spin Hall Angles by Alloying. Physical Review Letters, 2016, 117, 167204.	7.8	94
31	Laser-Induced Magnetization Dynamics of Lanthanide-Doped Permalloy Thin Films. Physical Review Letters, 2009, 102, 117201.	7.8	93
32	Structural and Magnetic Dynamics of a Laser Induced Phase Transition in FeRh. Physical Review Letters, 2012, 108, 087201.	7.8	91
33	Spatially resolved ferromagnetic resonance: Imaging of ferromagnetic eigenmodes. Journal of Applied Physics, 2005, 97, 10E704.	2.5	90
34	Vortex Core Switching by Coherent Excitation with Single In-Plane Magnetic Field Pulses. Physical Review Letters, 2009, 102, 077201.	7.8	90
35	Evidence for a Magnetic Proximity Effect up to Room Temperature at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Fe</mml:mi><mml:mo>/</mml:mo><mml:mo stretchy="false">(</mml:mo><mml:mi>Ga</mml:mi><mml:mo>,</mml:mo><mml:mi>Mn</mml:mi><mml:mo) Tj ETQq1 1 0.784314 2008, 101, 267201.	7.8	87
36	Longitudinal spin Seebeck effect contribution in transverse spin Seebeck effect experiments in Pt/YIG and Pt/NFO. Nature Communications, 2015, 6, 8211.	12.8	87

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37	Snellâ€™s Law for Spin Waves. Physical Review Letters, 2016, 117, 037204.	7.8	87
38	Excitations with negative dispersion in a spin vortex. Physical Review B, 2005, 71, .	3.2	86
39	Ferromagnetic GaAs/GaMnAs Coreâ˜Shell Nanowires Grown by Molecular Beam Epitaxy. Nano Letters, 2009, 9, 3860-3866.	9.1	85
40	Time Resolved Magnetization Dynamics of Ultrathin Fe(001) Films: Spin-Pumping and Two-Magnon Scattering. Physical Review Letters, 2005, 95, 037401.	7.8	82
41	Antiferromagnetic-ferromagnetic phase transition in FeRh probed by x-ray magnetic circular dichroism. Physical Review B, 2008, 77, .	3.2	79
42	Magnetization Dynamics due to Pure Spin Currents in Magnetic Double Layers. Physical Review Letters, 2007, 99, 246603.	7.8	76
43	Emergence of anisotropic Gilbert damping in ultrathin Fe layers on GaAs(001). Nature Physics, 2018, 14, 490-494.	16.7	75
44	Experimental confirmation of universality for a phase transition in two dimensions. Nature, 1995, 378, 597-600.	27.8	74
45	Structural relaxation and magnetic anisotropy in Co/Cu(001) films. Physical Review B, 1996, 54, 4075-4079.	3.2	74
46	Modal spectrum of permalloy disks excited by in-plane magnetic fields. Physical Review B, 2006, 73, .	3.2	73
47	Spin pumping in YIG/Pt bilayers as a function of layer thickness. Physical Review B, 2015, 92, .	3.2	73
48	Coherent Excitation of Heterosymmetric Spin Waves with Ultrashort Wavelengths. Physical Review Letters, 2019, 122, 117202.	7.8	69
49	Spatially Resolved Dynamic Eigenmode Spectrum of Co Rings. Physical Review Letters, 2006, 96, 057207.	7.8	67
50	Terahertz Spin Currents and Inverse Spin Hall Effect in Thin-Film Heterostructures Containing Complex Magnetic Compounds. Spin, 2017, 07, 1740010.	1.3	65
51	Demonstration of the spin solar cell and spin photodiode effect. Nature Communications, 2013, 4, 2068.	12.8	63
52	Circular photogalvanic effect at inter-band excitation in semiconductor quantum wells. Solid State Communications, 2003, 128, 283-286.	1.9	61
53	Laser-induced generation and quenching of magnetization on FeRh studied with time-resolved x-ray magnetic circular dichroism. Physical Review B, 2010, 81, .	3.2	61
54	Observation of the propagation and interference of spin waves in ferromagnetic thin films. Physical Review B, 2008, 77, .	3.2	59

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55	Influence of heat flow directions on Nernst effects in Py/Pt bilayers. Physical Review B, 2013, 88, .	3.2	55
56	Ultrafast generation of magnetic fields in a Schottky diode. Nature, 2001, 414, 51-54.	27.8	53
57	Vortex dynamics in coupled ferromagnetic multilayer structures. Journal of Applied Physics, 2006, 99, 08F305.	2.5	53
58	Magnetization dynamics in the presence of pure spin currents in magnetic single and double layers in spin ballistic and diffusive regimes. Physical Review B, 2009, 79, .	3.2	53
59	Micromagnetic Dissipation, Dispersion, and Mode Conversion in Thin Permalloy Platelets. Physical Review Letters, 2005, 94, 127205.	7.8	51
60	Cross-sectional imaging of spin injection into a semiconductor. Nature Physics, 2007, 3, 872-877.	16.7	51
61	Direct observation of the vortex core magnetization and its dynamics. Applied Physics Letters, 2007, 90, 202505.	3.3	49
62	Proximity Induced Enhancement of the Curie Temperature in Hybrid Spin Injection Devices. Physical Review Letters, 2011, 107, 056601.	7.8	49
63	Nonlinear spin-wave excitations at low magnetic bias fields. Nature Communications, 2015, 6, 8274.	12.8	49
64	Magnetic properties in ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:r transition-metal binary alloys. II. Experimental verification of quantitative theories of damping and spin pumping. Physical Review B, 2017, 95, .	3.2	49
65	Magnetic Damping: Domain Wall Dynamics versus Local Ferromagnetic Resonance. Physical Review Letters, 2014, 113, 237204.	7.8	48
66	Robust spin-orbit torque and spin-galvanic effect at the Fe/GaAs (001) interface at room temperature. Nature Communications, 2016, 7, 13802.	12.8	48
67	Mode degeneracy due to vortex core removal in magnetic disks. Physical Review B, 2007, 76, .	3.2	47
68	Fast spin-wave-mediated magnetic vortex core reversal. Physical Review B, 2012, 86, .	3.2	47
69	Magnetic properties of ultrathin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml binary alloys. I. Spin and orbital moments, anisotropy, and confirmation of Slater-Pauling behavior. Physical Review B, 2017, 95, .	3.2	47
70	Tunable metamaterial response of a Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>80</mml:mn></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>20</mml:mn></mml:msub></mml:math>antidot lattice for spin waves. Physical Review B, 2011, 84, .	3.2	45
71	Ultrafast demagnetization dynamics of thin Fe/W(110) films: Comparison of time- and spin-resolved photoemission with time-resolved magneto-optic experiments. Physical Review B, 2011, 84, .	3.2	45
72	Magnetization dynamics in an exchange-coupled NiFe/CoFe bilayer studied by x-ray detected ferromagnetic resonance. New Journal of Physics, 2015, 17, 013019.	2.9	43

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73	Spin pumping during the antiferromagneticâ€“ferromagnetic phase transition of ironâ€“rhodium. Nature Communications, 2020, 11, 275.	12.8	41
74	Dynamical Defects in Rotating Magnetic Skyrmion Lattices. Physical Review Letters, 2017, 118, 207205.	7.8	40
75	Submonolayers of adsorbates on stepped Co/Cu(100): Switching of the easy axis. Physical Review B, 1995, 52, R14400-R14403.	3.2	39
76	Layer specific observation of slow thermal equilibration in ultrathin metallic nanostructures by femtosecond X-ray diffraction. Nature Communications, 2018, 9, 3335.	12.8	38
77	Spin torque nano-oscillator driven by combined spin injection from tunneling and spin Hall current. Communications Physics, 2019, 2, .	5.3	38
78	Time Resolved Measurements of the Switching Trajectory of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Pt</mml:mi><mml:mo>/</mml:mo><mml:mi>Co</mml:mi></mml:mrow></mml:math> Elements Induced by Spin-Orbit Torques. Physical Review Letters, 2017, 118, 257201.	7.8	37
79	Identifying the Electronic Character and Role of the Mn States in the Valence Band of (Ga,Mn)As. Physical Review Letters, 2013, 111, 097201.	7.8	36
80	Bifurcation in precessional switching. Applied Physics Letters, 2001, 79, 2228-2230.	3.3	35
81	Time resolved Kerr microscopy: Magnetization dynamics in thin film write heads. IEEE Transactions on Magnetics, 1999, 35, 637-642.	2.1	34
82	Vortex dynamics in Permalloy disks with artificial defects: Suppression of the gyrotropic mode. Applied Physics Letters, 2007, 90, 062506.	3.3	34
83	Properties of Ni/Co multilayers as a function of the number of multilayer repetitions. Journal Physics D: Applied Physics, 2013, 46, 175001.	2.8	33
84	Magnetic phase transition in ironâ€“rhodium thin films probed by ferromagnetic resonance. Journal Physics D: Applied Physics, 2013, 46, 245302.	2.8	33
85	Testing spin-flip scattering as a possible mechanism of ultrafast demagnetization in ordered magnetic alloys. Physical Review B, 2014, 90, .	3.2	29
86	Emergence of spinâ€“orbit fields in magnetotransport of quasi-two-dimensional iron on gallium arsenide. Nature Communications, 2015, 6, 7374.	12.8	28
87	Real-time observation of domain fluctuations in a two-dimensional magnetic model system. Nature Communications, 2015, 6, 6832.	12.8	28
88	Origin and Manipulation of Stable Vortex Ground States in Permalloy Nanotubes. Nano Letters, 2018, 18, 2828-2834.	9.1	28
89	Layer resolved magnetization dynamics in interlayer exchange coupled Ni81Fe19âˆ•Ruâˆ•Co90Fe10 by time resolved x-ray magnetic circular dichroism. Journal of Applied Physics, 2008, 103, .	2.5	27
90	Microwave Spectroscopy of the Low-Temperature Skyrmion State in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Cu</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mr Physical Review Letters, 2021, 126, 017202.	7.8	27

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91	Scaling of spin relaxation and angular momentum dissipation in permalloy nanowires. Physical Review B, 2009, 80, .	3.2	26
92	Magnetic properties of spin waves in thin yttrium iron garnet films. Physical Review B, 2017, 95, .	3.2	26
93	Domain-width model for perpendicularly magnetized systems with Dzyaloshinskii-Moriya interaction. Physical Review B, 2017, 96, .	3.2	26
94	Quantifying the critical thickness of electron hybridization in spintronics materials. Nature Communications, 2017, 8, 16051.	12.8	26
95	Electric-field control of interfacial spinâ€“orbit fields. Nature Electronics, 2018, 1, 350-355.	26.0	26
96	Self-consistent determination of the key spin-transfer torque parameters from spin-wave Doppler experiments. Physical Review B, 2014, 89, .	3.2	25
97	Observation of room-temperature magnetic skyrmions in Pt/Co/W structures with a large spin-orbit coupling. Physical Review B, 2018, 98, .	3.2	25
98	A Spin Selective Electron Interferometer. Physical Review Letters, 1999, 83, 2833-2836.	7.8	24
99	Identification of Different Electron Screening Behavior Between the Bulk and Surface of (Ga,Mn)As. Physical Review Letters, 2011, 107, 187203.	7.8	24
100	Dipolar-energy-activated magnetic domain pattern transformation driven by thermal fluctuations. Nature Communications, 2013, 4, 2054.	12.8	24
101	Unidirectional sub-100-ps magnetic vortex core reversal. Physical Review B, 2014, 90, .	3.2	24
102	Determination of the intershell conductance in a multiwall carbon nanotube. Applied Physics Letters, 2008, 93, .	3.3	23
103	Influence of domain wall pinning on the dynamic behavior of magnetic vortex structures: Time-resolved scanning x-ray transmission microscopy in NiFe thin film structures. Physical Review B, 2008, 77, .	3.2	22
104	In situmagnetoresistance measurements of ferromagnetic nanocontacts in the Lorentz transmission electron microscope. Physical Review B, 2009, 79, .	3.2	22
105	Identifying the character of ferromagnetic Mn in epitaxial Fe/(Ga,Mn)As heterostructures. Physical Review B, 2010, 81, .	3.2	22
106	Temperature-dependent transport properties of FeRh. Physical Review B, 2017, 95, .	3.2	22
107	Giant magnetic susceptibility in Fe and Co epitaxial films. European Physical Journal B, 1994, 96, 1-3.	1.5	21
108	Spin-orbit coupling effect in (Ga,Mn)As films: Anisotropic exchange interactions and magnetocrystalline anisotropy. Physical Review B, 2011, 84, .	3.2	21

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109	Interfacial Dzyaloshinskii-Moriya interaction studied by time-resolved scanning Kerr microscopy. Physical Review B, 2015, 92, .	3.2	21
110	Ultrashort magnetic field pulses and the elementary process of magnetization reversal. Journal of Magnetism and Magnetic Materials, 1999, 200, 774-785.	2.3	20
111	Quantitative separation of the anisotropic magnetothermopower and planar Nernst effect by the rotation of an in-plane thermal gradient. Scientific Reports, 2017, 7, 40586.	3.3	20
112	Direct observation of spin-wave focusing by a Fresnel lens. Physical Review B, 2020, 102, .	3.2	19
113	Layer-selective spectroscopy ofFeâ•GaAs(001): Influence of the interface on the magnetic properties. Physical Review B, 2005, 72, .	3.2	18
114	Layer resolved magnetization dynamics in coupled magnetic films using time-resolved x-ray magnetic circular dichroism with continuous wave excitation. Journal of Applied Physics, 2009, 105, 07D310.	2.5	18
115	Vortex Core Reversal Due to Spin Wave Interference. Physical Review Letters, 2014, 112, 077201.	7.8	18
116	Epitaxial Growth of Room-Temperature Ferromagnetic MnAs Segments on GaAs Nanowires via Sequential Crystallization. Nano Letters, 2016, 16, 900-905.	9.1	18
117	Speed limit ahead. Nature, 2004, 428, 808-809.	27.8	17
118	Mapping the magnetic anisotropy in (Ga,Mn)As nanostructures. Physical Review B, 2009, 80, .	3.2	17
119	Three-dimensional Character of the Magnetization Dynamics in Magnetic Vortex Structures: Hybridization of Flexure Gyromodes with Spin Waves. Physical Review Letters, 2016, 117, 037208.	7.8	17
120	Excitation and tailoring of diffractive spin-wave beams in NiFe using nonuniform microwave antennas. Physical Review B, 2017, 96, .	3.2	17
121	Observation of a Goos-HÃnchen-like Phase Shift for Magnetostatic Spin Waves. Physical Review Letters, 2018, 121, 137201.	7.8	17
122	Pulsed precessional motion on the Âback of an envelopeÂ. Journal of Physics Condensed Matter, 2003, 15, R1093-R1100.	1.8	16
123	Anisotropy of theL2,3x-ray magnetic linear dichroism of Fe films on GaAs: Experiment andab initiotheory. Physical Review B, 2010, 82, .	3.2	16
124	Coupling of spinwave modes in wire structures. Applied Physics Letters, 2014, 104, 102404.	3.3	16
125	Low-amplitude magnetic vortex core reversal by non-linear interaction between azimuthal spin waves and the vortex gyromode. Applied Physics Letters, 2014, 104, 012409.	3.3	16
126	Probing oscillatory exchange coupling with a paramagnet. Physical Review B, 1995, 52, R13114-R13117.	3.2	15

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127	Ferromagnetic Resonance with Magnetic Phase Selectivity by Means of Resonant Elastic X-Ray Scattering on a Chiral Magnet. Physical Review Letters, 2019, 123, 167201.	7.8	15
128	Magnetic damping in poly-crystalline Co25Fe75: Ferromagnetic resonance vs. spin wave propagation experiments. Applied Physics Letters, 2017, 111, .	3.3	14
129	X-ray magnetic linear dichroism as a probe for non-collinear magnetic state in ferrimagnetic single layer exchange bias systems. Scientific Reports, 2019, 9, 18169.	3.3	14
130	Direct observation of antiferromagnetic phase transition in fcc Fe films. Physical Review B, 1997, 55, 5643-5646.	3.2	13
131	Spin-wave excitations and low-temperature magnetization in the dilute magnetic semiconductor (Ga,Mn)As. Physical Review B, 2008, 77, .	3.2	13
132	Conductivity of multiwall carbon nanotubes: Role of multiple shells and defects. Physical Review B, 2010, 82, .	3.2	13
133	Dependence of transverse magnetothermoelectric effects on inhomogeneous magnetic fields. Physical Review B, 2015, 92, .	3.2	13
134	Anisotropic Polar Magneto-Optic Kerr Effect of Ultrathin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Fe</mml:mi><mml:mrow><mml:mo>/</mml:mo><mml:mi>GaAs</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>001</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 452 Td (stretchy="false">)</mm	7.8	13
135	Spin-Orbit Interaction. Physical Review Letters, 2016, 117, 157202. Spin-wave wavelength down-conversion at thickness steps. Applied Physics Express, 2018, 11, 053002.	2.4	13
136	Modulation of thermal stability and spinâ€“orbit torque in IrMn/CoFeB/MgO structures through atom thick W insertion. Applied Physics Letters, 2020, 117, .	3.3	13
137	Spin motion of electrons during reflection from a ferromagnetic surface. Physical Review B, 2002, 66, .	3.2	12
138	Threshold photoemission magnetic circular dichroism of perpendicularly magnetized Ni films on Cu(001): Theory and experiment. Physical Review B, 2011, 83, .	3.2	12
139	Magnetic and electrical transport signatures of uncompensated moments in epitaxial thin films of the noncollinear antiferromagnet Mn3Ir. Applied Physics Letters, 2019, 115, 062403.	3.3	12
140	Special issue on spin caloritronics. Journal Physics D: Applied Physics, 2019, 52, 230301.	2.8	12
141	Symmetry and curvature effects on spin waves in vortex-state hexagonal nanotubes. Physical Review B, 2021, 104, .	3.2	12
142	Magnetization profile at the Fe/GaAs(001)-4Ã—6 interface. Physica B: Condensed Matter, 2004, 345, 177-180.	2.7	11
143	Interaction of magnetostatic excitations with 90Â° domain walls in micrometer-sized permalloy squares. Physical Review B, 2006, 74, .	3.2	11
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145	Magnetic anisotropy oscillations (invited). Journal of Applied Physics, 1997, 81, 5054-5057.	2.5	10
146	Magnetic spatial non-uniformities on the picosecond timescale. Journal of Magnetism and Magnetic Materials, 2002, 239, 346-350.	2.3	10
147	Transient quantum isolation and critical behavior in the magnetization dynamics of half-metallic manganites. Physical Review B, 2019, 100, .	3.2	10
148	Spin structure relation to phase contrast imaging of isolated magnetic Bloch and NÃ©el skyrmions. Ultramicroscopy, 2020, 212, 112973.	1.9	10
149	Phase-resolved pulsed precessional motion at a Schottky barrier. Physical Review B, 2004, 69, .	3.2	9
150	Vortex Dynamics. , 0, , 137-160.		9
151	Influence of surface treatment on the magnetic properties ofGaxMn1â^'xAsthin films. Physical Review B, 2006, 74, .	3.2	9
152	Imaging magnetic excitations in confined magnetic structures. Journal Physics D: Applied Physics, 2008, 41, 164010.	2.8	9
153	Element-specific ferromagnetic resonance in epitaxial Heusler spin valve systems. Journal Physics D: Applied Physics, 2011, 44, 425004.	2.8	9
154	Spin wave mediated unidirectional vortex core reversal by two orthogonal monopolar field pulses: The essential role of three-dimensional magnetization dynamics. Journal of Applied Physics, 2016, 119, .	2.5	9
155	Building Blocks for Magnon Optics: Emission and Conversion of Short Spin Waves. ACS Nano, 2020, 14, 17184-17193.	14.6	9
156	Phase resolved observation of spin wave modes in antidot lattices. Applied Physics Letters, 2021, 118, .	3.3	9
157	Nonlinear timing shift in high frequency magnetic recording determined with time resolved Kerr microscopy. Journal of Applied Physics, 1999, 86, 3377-3381.	2.5	8
158	Growth of ultrathin epitaxial Fe/MgO spin injector on (0, 0, 1) (Ga, Mn)As. Nanotechnology, 2012, 23, 465202.	2.6	8
159	Non-linear radial spinwave modes in thin magnetic disks. Applied Physics Letters, 2015, 106, .	3.3	8
160	Connections between spin-orbit torques and unidirectional magnetoresistance in ferromagnetic-metalâ€“heavy-metal heterostructures. Physical Review B, 2022, 105, .	3.2	8
161	Surface treatments and magnetic properties of Ga1â^'xMnxAs thin films. Surface Science, 2007, 601, 4283-4287.	1.9	7
162	Reorientation transition of the magnetic proximity polarization in Fe/(Ga,Mn)As bilayers. Physical Review B, 2012, 85, .	3.2	7

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163	Magnetic homogeneity of the dynamic properties of (Ga,Mn)As films from the submicrometer to millimeter length scale. Physical Review B, 2013, 87, .	3.2	7
164	Magnon scattering in the transport coefficients of CoFe thin films. Physical Review B, 2018, 98, .	3.2	7
165	All-electrical detection of skyrmion lattice state and chiral surface twists. Physical Review B, 2021, 103, .	3.2	7
166	Hybridized magnon modes in the quenched skyrmion crystal. Physical Review B, 2021, 104, .	3.2	7
167	Micromagnetoluminescence on ferromagnetâ€“semiconductor hybrid nanostructures. Journal of Applied Physics, 2004, 95, 7411-7413.	2.5	6
168	Micromagnetism in the ultrathin limit. Thin Solid Films, 2006, 505, 2-9.	1.8	6
169	In situ measurements of magnetoresistive effects in ferromagnetic microstructures by Lorentz microscopy. Applied Physics Letters, 2006, 88, 082506.	3.3	6
170	Ballistic electron magnetic microscopy on epitaxial spin valves. Physical Review B, 2007, 75, .	3.2	6
171	Electrical determination of vortex state in submicron magnetic elements. Physical Review B, 2015, 91, .	3.2	6
172	Interface magnetization profiling by x-ray magnetometry of marker impurities on Feâˆ•GaAs(001)-(4Ã—6). Applied Physics Letters, 2005, 87, 042506.	3.3	5
173	Temperature and field dependent magnetization in a sub-Î¼m patterned Co/FeRh film studied by resonant x-ray scattering. Journal Physics D: Applied Physics, 2016, 49, 205003.	2.8	5
174	Optical investigation of electrical spin injection into an inverted two-dimensional electron gas structure. Physical Review B, 2017, 95, .	3.2	5
175	Transport properties of band engineered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi>n<mm heterostructures of epitaxial <mml:math		

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181	Bias dependence of spin injection into GaAs from Fe, FeCo, and (Ga,Mn)As contacts. Journal of Applied Physics, 2011, 109, 07C505.	2.5	4
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