

Axel F Hoffmann

List of Publications by Year in descending order

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313
papers

18,980
citations

16451

64
h-index

12597

132
g-index

326
all docs

326
docs citations

326
times ranked

13904
citing authors

#	ARTICLE	IF	CITATIONS
1	Bound exciton and donor-acceptor pair recombinations in ZnO. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 231-260.	1.5	1,499
2	Blowing magnetic skyrmion bubbles. <i>Science</i> , 2015, 349, 283-286.	12.6	1,177
3	Spin Hall Effects in Metals. <i>IEEE Transactions on Magnetism</i> , 2013, 49, 5172-5193.	2.1	927
4	Direct observation of the skyrmion Hall effect. <i>Nature Physics</i> , 2017, 13, 162-169.	16.7	858
5	Interface-induced phenomena in magnetism. <i>Reviews of Modern Physics</i> , 2017, 89, .	45.6	672
6	Tunable Transport Gap in Phosphorene. <i>Nano Letters</i> , 2014, 14, 5733-5739.	9.1	657
7	Quantifying Spin Hall Angles from Spin Pumping: Experiments and Theory. <i>Physical Review Letters</i> , 2010, 104, 046601.	7.8	603
8	Detection and quantification of inverse spin Hall effect from spin pumping in permalloy/normal metal bilayers. <i>Physical Review B</i> , 2010, 82, .	3.2	439
9	Skyrmions in magnetic multilayers. <i>Physics Reports</i> , 2017, 704, 1-49.	25.6	412
10	Realization of a spin-wave multiplexer. <i>Nature Communications</i> , 2014, 5, 3727.	12.8	314
11	Spin Hall Effects in Metallic Antiferromagnets. <i>Physical Review Letters</i> , 2014, 113, 196602.	7.8	313
12	Spin transport and spin torque in antiferromagnetic devices. <i>Nature Physics</i> , 2018, 14, 220-228.	16.7	298
13	Opportunities at the Frontiers of Spintronics. <i>Physical Review Applied</i> , 2015, 4, .	3.8	287
14	Symmetry Driven Irreversibilities at Ferromagnetic-Antiferromagnetic Interfaces. <i>Physical Review Letters</i> , 2004, 93, 097203.	7.8	256
15	Origin of the Asymmetric Magnetization Reversal Behavior in Exchange-Biased Systems: Competing Anisotropies. <i>Physical Review Letters</i> , 2005, 95, 057204.	7.8	255
16	Nanometer-Thick Yttrium Iron Garnet Films With Extremely Low Damping. <i>IEEE Magnetism Letters</i> , 2014, 5, 1-4.	1.1	254
17	Antiferromagnetic Spin Seebeck Effect. <i>Physical Review Letters</i> , 2016, 116, 097204.	7.8	248
18	Damping in Yttrium Iron Garnet Nanoscale Films Capped by Platinum. <i>Physical Review Letters</i> , 2013, 111, 106601.	7.8	227

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19	Biological sensors based on Brownian relaxation of magnetic nanoparticles. Applied Physics Letters, 2004, 85, 2971-2973.	3.3	225
20	Roadmap of Spin-Orbit Torques. IEEE Transactions on Magnetics, 2021, 57, 1-39.	2.1	225
21	Growth and ferromagnetic resonance properties of nanometer-thick yttrium iron garnet films. Applied Physics Letters, 2012, 101, .	3.3	210
22	Perspectives of antiferromagnetic spintronics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 865-871.	2.1	209
23	Artificially Induced Reconfiguration of the Vortex Lattice by Arrays of Magnetic Dots. Physical Review Letters, 1999, 83, 1022-1025.	7.8	196
24	Superconducting vortex pinning with artificial magnetic nanostructures. Journal of Magnetism and Magnetic Materials, 2008, 320, 2547-2562.	2.3	192
25	Giant Magnetoresistance in Ferromagnet/Superconductor Superlattices. Physical Review Letters, 2005, 94, 057002.	7.8	187
26	Neutron scattering studies of nanomagnetism and artificially structured materials. Journal of Magnetism and Magnetic Materials, 2004, 271, 103-146.	2.3	152
27	Optical Properties of the Nitrogen Acceptor in Epitaxial ZnO. Physica Status Solidi (B): Basic Research, 2002, 234, R7-R9.	1.5	144
28	Determination of the Pt spin diffusion length by spin-pumping and spin Hall effect. Applied Physics Letters, 2013, 103, .	3.3	141
29	Hybrid magnonics: Physics, circuits, and applications for coherent information processing. Journal of Applied Physics, 2020, 128, .	2.5	141
30	Spin waves turning a corner. Applied Physics Letters, 2012, 101, 042410.	3.3	131
31	Spin injection, diffusion, and detection in lateral spin-valves. Applied Physics Letters, 2004, 85, 6218-6220.	3.3	129
32	Ferromagnetic resonance of sputtered yttrium iron garnet nanometer films. Journal of Applied Physics, 2014, 115, .	2.5	129
33	Periodic vortex pinning with magnetic and nonmagnetic dots: The influence of size. Physical Review B, 2000, 61, 6958-6965.	3.2	126
34	Two-Stage Magnetization Reversal in Exchange Biased Bilayers. Physical Review Letters, 2001, 86, 4394-4397.	7.8	124
35	Strong Coupling between Magnons and Microwave Photons in On-Chip Ferromagnet-Superconductor Thin-Film Devices. Physical Review Letters, 2019, 123, 107701.	7.8	121
36	Universal Method for Separating Spin Pumping from Spin Rectification Voltage of Ferromagnetic Resonance. Physical Review Letters, 2013, 111, 217602.	7.8	117

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37	Control of Terahertz Emission by Ultrafast Spin-Charge Current Conversion at Rashba Interfaces. <i>Physical Review Letters</i> , 2018, 120, 207207.	7.8	114
38	Ionized and neutral donor-bound excitons in ZnO. <i>Physical Review B</i> , 2007, 76, .	3.2	111
39	Emergence of noncollinear anisotropies from interfacial magnetic frustration in exchange-bias systems. <i>Physical Review B</i> , 2009, 80, .	3.2	111
40	Dependence of spin-pumping spin Hall effect measurements on layer thicknesses and stacking order. <i>Physical Review B</i> , 2013, 88, .	3.2	111
41	Thickness-dependent coercive mechanisms in exchange-biased bilayers. <i>Physical Review B</i> , 2002, 65, .	3.2	108
42	Spin pumping and inverse Rashba-Edelstein effect in NiFe/Ag/Bi and NiFe/Ag/Sb. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	96
43	All-electrical manipulation of magnetization dynamics in a ferromagnet by antiferromagnets with anisotropic spin Hall effects. <i>Physical Review B</i> , 2015, 92, .	3.2	95
44	Biological sensing with magnetic nanoparticles using Brownian relaxation (invited). <i>Journal of Applied Physics</i> , 2005, 97, 10R101.	2.5	89
45	Suppressed magnetization in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7$ superlattices. <i>Physical Review B</i> , 2005, 72, .	3.2	88
46	Effect of annealing on the In and N distribution in InGaAsN quantum wells. <i>Applied Physics Letters</i> , 2002, 81, 2719-2721.	3.3	86
47	Spin-orbit torque-assisted switching in magnetic insulator thin films with perpendicular magnetic anisotropy. <i>Nature Communications</i> , 2016, 7, 12688.	12.8	85
48	Negative Nonlocal Resistance in Mesoscopic Gold Hall Bars: Absence of the Giant Spin Hall Effect. <i>Physical Review Letters</i> , 2009, 103, 166601.	7.8	84
49	Exchange-Induced Anisotropies at Ferromagnetic-Antiferromagnetic Interfaces above and below the Néel Temperature. <i>Physical Review Letters</i> , 2003, 90, 257201.	7.8	82
50	Enhanced spin injection polarization in $\text{Co}/\text{Cu}/\text{Co}$ nonlocal lateral spin valves. <i>Applied Physics Letters</i> , 2006, 88, 052509.	3.3	79
51	Tailoring the exchange bias via shape anisotropy in ferromagnetic/antiferromagnetic exchange-coupled systems. <i>Physical Review B</i> , 2003, 67, .	3.2	76
52	Advances in nanomagnetism via X-ray techniques. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 307, 1-31.	2.3	76
53	Interplay between exchange bias and uniaxial anisotropy in a ferromagnetic/antiferromagnetic exchange-coupled system. <i>Physical Review B</i> , 2005, 71, .	3.2	75
54	Research Update: Spin transfer torques in permalloy on monolayer MoS ₂ . <i>APL Materials</i> , 2016, 4, .	5.1	75

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55	Coherent Spin Pumping in a Strongly Coupled Magnon-Magnon Hybrid System. <i>Physical Review Letters</i> , 2020, 124, 117202.	7.8	75
56	Reduced spin-Hall effects from magnetic proximity. <i>Physical Review B</i> , 2015, 91, .	3.2	74
57	Fabrication of submicrometric magnetic structures by electron-beam lithography. <i>Journal of Applied Physics</i> , 1998, 84, 411-415.	2.5	73
58	Dynamic response of an artificial square spin ice. <i>Physical Review B</i> , 2016, 93, .	3.2	71
59	Giant Anisotropy of Gilbert Damping in Epitaxial CoFe Films. <i>Physical Review Letters</i> , 2019, 122, 117203.	7.8	70
60	Temperature dependence and mechanisms of vortex pinning by periodic arrays of Ni dots in Nb films. <i>Physical Review B</i> , 2000, 62, 9110-9116.	3.2	69
61	Quantum Engineering With Hybrid Magnonic Systems and Materials <i>(Invited Paper)</i>. <i>IEEE Transactions on Quantum Engineering</i> , 2021, 2, 1-36.	4.9	69
62	Lithium related deep and shallow acceptors in Li-doped ZnO nanocrystals. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	68
63	Large Spin-Wave Bullet in a Ferrimagnetic Insulator Driven by the Spin Hall Effect. <i>Physical Review Letters</i> , 2016, 116, 057601.	7.8	66
64	Interface-driven spin-torque ferromagnetic resonance by Rashba coupling at the interface between nonmagnetic materials. <i>Physical Review B</i> , 2016, 93, .	3.2	65
65	Magnetization switching using topological surface states. <i>Science Advances</i> , 2019, 5, eaaw3415.	10.3	65
66	Influence of in-plane crystalline quality of an antiferromagnet on perpendicular exchange coupling and exchange bias. <i>Physical Review B</i> , 2002, 65, .	3.2	61
67	Magnetization Reversal in Submicron Disks: Exchange Biased Vortices. <i>Physical Review Letters</i> , 2005, 95, 067201.	7.8	61
68	Vibrational dynamics in lead halide hybrid perovskites investigated by Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5604-5614.	2.8	61
69	Suppression of spin-pumping by a MgO tunnel-barrier. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	58
70	Individual and multiple vortex pinning in systems with periodic pinning arrays. <i>Physical Review B</i> , 2001, 64, .	3.2	57
71	Metallic antiferromagnets. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	57
72	Precision nanoscale domain engineering of lithium niobate via UV laser induced inhibition of poling. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	56

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73	Highly asymmetric magnetic behavior in exchange biased systems induced by noncollinear field cooling. Applied Physics Letters, 2009, 95, .	3.3	56
74	Persistent photoinduced effects in high-T _c superconductors. Advanced Materials, 1997, 9, 271-273.	21.0	55
75	Induced magnetic moments at a ferromagnet-antiferromagnet interface. Physical Review B, 2002, 66, .	3.2	55
76	Surface Spin Flip Probability of Mesoscopic Ag Wires. Physical Review Letters, 2010, 104, 237202.	7.8	55
77	Imprinting Vortices into Antiferromagnets. Physical Review Letters, 2006, 97, 067201.	7.8	51
78	Annealing-dependent magnetic depth profile in Ga _{1-x} Mn _x As. Physical Review B, 2004, 69, .	3.2	50
79	Spin waves in micro-structured yttrium iron garnet nanometer-thick films. Journal of Applied Physics, 2015, 117, .	2.5	50
80	A quantum optical study of thresholdless lasing features in high- \hat{I}^2 nitride nanobeam cavities. Nature Communications, 2018, 9, 564.	12.8	50
81	Isothermal tuning of exchange bias using pulsed fields. Applied Physics Letters, 2003, 82, 3044-3046.	3.3	48
82	Driving and detecting ferromagnetic resonance in insulators with the spin Hall effect. Physical Review B, 2015, 92, .	3.2	48
83	Origin of the inverse spin-switch behavior in manganite/cuprate/manganite trilayers. Physical Review B, 2008, 78, .	3.2	47
84	Electric control of magnetization relaxation in thin film magnetic insulators. Applied Physics Letters, 2011, 99, .	3.3	47
85	Spin pumping and inverse spin Hall effects—Insights for future spin-orbitronics (invited). Journal of Applied Physics, 2015, 117, .	2.5	47
86	Temperature dependent photoluminescence of lateral polarity junctions of metal organic chemical vapor deposition grown GaN. Journal of Applied Physics, 2011, 110, .	2.5	45
87	Generation of magnetic skyrmion bubbles by inhomogeneous spin Hall currents. Physical Review B, 2016, 93, .	3.2	45
88	Cross-talk correction in atomic force microscopy. Review of Scientific Instruments, 2007, 78, 016101.	1.3	44
89	Pure spin currents. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 4236-4241.	0.8	44
90	Magnetic Damping Modulation in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> > \langle \text{mml:mrow} > \langle \text{mml:msub} > \langle \text{mml:mrow} > \langle \text{mml:mi} > \text{IrMn} < / \text{mml:mi} > < / \text{mml:mrow} > \langle \text{mml:mrow} > \langle \text{mml:mn} > 3 < / \text{mml:mn} > < / \text{mml:mrow} > \langle \text{mml:mn} > < / \text{mml:mn} > < / \text{mml:mrow} > < / \text{mml:math} >$ via the Magnetic Spin Hall Effect. Physical Review Letters, 2020, 124, 087204.		

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91	Non-local spin injection in lateral spin valves. Journal Physics D: Applied Physics, 2007, 40, 1280-1284.	2.8	42
92	Effects of strain on the valence band structure and exciton-polariton energies in ZnO. Physical Review B, 2013, 88, .	3.2	42
93	Perspective: Interface generation of spin-orbit torques. Journal of Applied Physics, 2016, 120, .	2.5	42
94	Advances in coherent coupling between magnons and acoustic phonons. APL Materials, 2021, 9, .	5.1	42
95	Identification of bound exciton complexes in ZnO. Physica Status Solidi (B): Basic Research, 2004, 241, 607-611.	1.5	41
96	Influence of the inhomogeneous field at the tip on quantitative piezoresponse force microscopy. Applied Physics A: Materials Science and Processing, 2007, 86, 353-355.	2.3	41
97	Epitaxial patterning of nanometer-thick $\text{Y}_3\text{Fe}_5\text{O}_{12}$ films with low magnetic damping. Nanoscale, 2016, 8, 388-394.	5.6	41
98	Mobile Néel skyrmions at room temperature: status and future. AIP Advances, 2016, 6, .	1.3	38
99	Spin transport through the metallic antiferromagnet FeMn. Physical Review B, 2016, 94, .	3.2	38
100	Intrinsic Mechanism for Anisotropic Magnetoresistance and Experimental Confirmation in Co/Mn Single-Crystal Films. Physical Review Letters, 2020, 125, 097201.	7.8	38
101	Spin-dependent magnetoresistance of ferromagnet/superconductor/ferromagnet $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ trilayers. Physical Review B, 2007, 75, .	3.2	36
102	Independence of spin-orbit torques from the exchange bias direction in Ni/Mn bilayers. Physical Review B, 2010, 81, .	3.2	35
103	Photodoping Effects in High Critical Temperature Superconducting Films and Josephson Junctions. Journal of Superconductivity and Novel Magnetism, 2000, 13, 1-20.	0.5	34
104	Magnetic viruses via nano-capsid templates. Journal of Magnetism and Magnetic Materials, 2006, 302, 47-51.	2.3	34
105	Temperature dependent nucleation and annihilation of individual magnetic vortices. Applied Physics Letters, 2010, 96, .	3.3	33
106	Enhancement of persistent photoconductivity by uv excitation in $\text{GdBa}_2\text{Cu}_3\text{O}_{6.3}$. Physical Review B, 1996, 54, R3750-R3752.	3.2	32
107	Enhanced spin signals due to native oxide formation in $\text{Ni}_{80}\text{Fe}_{20}/\text{Ag}$ lateral spin valves. Applied Physics Letters, 2010, 97, .	3.3	31
108	Influence of interfacial disorder and temperature on magnetization reversal in exchange-coupled bilayers. Physical Review B, 2001, 64, .	3.2	30

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109	Mutual influence between macrospin reversal order and spin-wave dynamics in isolated artificial spin-ice vertices. <i>Physical Review B</i> , 2018, 97, .	3.2	30
110	Nanostructures and the proximity effect. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 2398-2402.	2.8	29
111	Symmetrical interfacial reconstruction and magnetism in La _{0.7} Ca _{0.3} MnO ₃ /YBa ₂ Cu ₃ O ₇ /La _{0.7} Ca _{0.3} MnO ₃ heterostructures. <i>Physical Review B</i> , 2011, 84, .	3.2	29
112	Insulating Nanomagnets Driven by Spin Torque. <i>Nano Letters</i> , 2017, 17, 8-14.	9.1	29
113	High-Frequency Dynamics Modulated by Collective Magnetization Reversal in Artificial Spin Ice. <i>Physical Review Applied</i> , 2017, 8, .	3.8	29
114	Nitrogen doping in bulk and epitaxial ZnO. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 731-734.	0.8	28
115	Nitrogen incorporation in homoepitaxial ZnO CVD epilayers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009, 3, 16-18.	2.4	28
116	Observation of microwave-assisted magnetization reversal in perpendicular recording media. <i>Applied Physics Letters</i> , 2013, 103, 042413.	3.3	28
117	Spin Seebeck devices using local on-chip heating. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	28
118	Dynamic excitations of chiral magnetic textures. <i>APL Materials</i> , 2020, 8, .	5.1	28
119	Phonon Transport Controlled by Ferromagnetic Resonance. <i>Physical Review Applied</i> , 2020, 13, .	3.8	28
120	Topological Hall Effect in a Topological Insulator Interfaced with a Magnetic Insulator. <i>Nano Letters</i> , 2021, 21, 84-90.	9.1	28
121	Thermoelectric Detection of Spin Waves. <i>Physical Review Letters</i> , 2012, 109, 237204.	7.8	27
122	Enhanced pinning of superconducting vortices by magnetic vortices. <i>Physical Review B</i> , 2008, 77, .	3.2	26
123	Anti-phase domains in cubic GaN. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	26
124	Room temperature deposition of superconducting niobium nitride films by ion beam assisted sputtering. <i>APL Materials</i> , 2018, 6, 076107.	5.1	26
125	Magneto-optic measurement of Brownian relaxation of magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 91-95.	2.3	24
126	X-ray Magnetic Circular Dichroism and Small Angle Neutron Scattering Studies of Thiol Capped Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6434-6438.	0.9	24

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127	Role of anisotropy configuration in exchange-biased systems. Journal of Applied Physics, 2011, 109, .	2.5	24
128	Unidirectional spin-torque driven magnetization dynamics. Physical Review B, 2017, 95, .	3.2	24
129	Coherent control of asymmetric spintronic terahertz emission from two-dimensional hybrid metal halides. Nature Communications, 2021, 12, 5744.	12.8	24
130	Probing magnon-magnon coupling in exchange coupled $\text{Y}_3\text{Fe}_5\text{O}_{12}$ /Permalloy bilayers with magneto-optical effects. Scientific Reports, 2020, 10, 12548.	3.3	23
131	Controlling magnetic vortices through exchange bias. Applied Physics Letters, 2006, 88, 042502.	3.3	22
132	Influence of structural nonuniformity and nonradiative processes on the luminescence efficiency of InGaAsN quantum wells. Applied Physics Letters, 2006, 88, 011903.	3.3	22
133	Effect of Interface-Induced Exchange Fields on Cuprate-Manganite Spin Switches. Physical Review Letters, 2012, 108, 207205.	7.8	22
134	Influence of the Vertex Region on Spin Dynamics in Artificial Kagome Spin Ice. Physical Review Applied, 2020, 14, .	3.8	22
135	Direct-current effects on magnetization reversal properties of submicron-size Permalloy patterns for radio-frequency devices. Applied Physics Letters, 2009, 95, .	3.3	21
136	Spin Hall effects in metallic antiferromagnets – perspectives for future spin-orbitronics. AIP Advances, 2016, 6, .	1.3	21
137	Quantifying chiral exchange interaction for Néel-type skyrmions via Lorentz transmission electron microscopy. Physical Review B, 2019, 99, .	3.2	21
138	Field Evolution of Tilted Vortex Cores in Exchange-Biased Ferromagnetic Dots. Physical Review Letters, 2006, 97, 107203.	7.8	20
139	Magnetic Instability Regions in Patterned Structures: Influence of Element Shape on Magnetization Reversal Dynamics. Physical Review Letters, 2007, 98, 147202.	7.8	20
140	Polariton effects in the dielectric function of ZnO excitons obtained by ellipsometry. Applied Physics Letters, 2010, 96, .	3.3	20
141	Mesoscale magnetism. Current Opinion in Solid State and Materials Science, 2015, 19, 253-263.	11.5	20
142	Coupled skyrmion breathing modes in synthetic ferri- and antiferromagnets. Physical Review B, 2020, 102, .	3.2	20
143	Permalloy thin films exchange coupled to arrays of cobalt islands. Applied Physics Letters, 2006, 89, 142508.	3.3	19
144	Sol-gel derived ferroelectric nanoparticles investigated by piezoresponse force microscopy. Applied Physics Letters, 2009, 95, .	3.3	19

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145	Controlled interconversion of quantized spin wave modes via local magnetic fields. Physical Review B, 2019, 100, .	3.2	19
146	Angular-dependent spin dynamics of a triad of permalloy macrospins. Physical Review B, 2019, 99, .	3.2	19
147	Spincaloritronic Measurements: A Round Robin Comparison of the Longitudinal Spin Seebeck Effect. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1765-1773.	4.7	19
148	Tuning metal surface diffusion on diblock copolymer films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 1048-1051.	2.1	18
149	Tailoring High-Frequency Properties of Permalloy Films by Submicrometer Patterning. IEEE Transactions on Magnetics, 2009, 45, 71-74.	2.1	18
150	A new reversal mode in exchange coupled antiferromagnetic/ferromagnetic disks: distorted viscous vortex. Nanoscale, 2015, 7, 9878-9885.	5.6	18
151	Magnetization reversal in Py/Gd heterostructures. Physical Review B, 2017, 96, .	3.2	18
152	Direct Current Effects on High-Frequency Properties of Patterned Permalloy Thin Films. IEEE Transactions on Magnetics, 2009, 45, 5296-5300.	2.1	17
153	The effect of illumination power density on carbon defect configuration in silicon doped GaN. Journal of Applied Physics, 2016, 120, .	2.5	17
154	Nontrivial Nature and Penetration Depth of Topological Surface States in SmB_6 Thin Films. Physical Review Letters, 2018, 120, 207206.	7.8	17
155	Electronic Raman scattering of Tl-2223 and the symmetry of the superconducting gap. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1897-1898.	1.2	16
156	Raman, photoluminescence and absorption studies on high quality AlN single crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 2774-2778.	0.8	16
157	Dynamics of thin-film spin-flip transistors with perpendicular source-drain magnetizations. Physical Review B, 2006, 73, .	3.2	16
158	Magnetic memory based on $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ ferromagnet/superconductor hybrid structures. Applied Physics Letters, 2010, 97, 032501.	3.3	16
159	Ferromagnetic resonance spectra of permalloy nano-ellipses as building blocks for complex magnonic lattices. Journal of Applied Physics, 2019, 126, .	2.5	16
160	Spin-wave frequency division multiplexing in an yttrium iron garnet microstripe magnetized by inhomogeneous field. Applied Physics Letters, 2019, 115, .	3.3	16
161	Effect of light irradiation on Fiske resonances and the Josephson effect in high- T_c junctions. Physical Review B, 1997, 56, R8507-R8510.	3.2	15
162	Directionally controlled superconductivity in ferromagnet/superconductor/ferromagnet trilayers with biaxial easy axes. Physical Review B, 2010, 81, .	3.2	15

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163	Low-voltage nanodomain writing in He-implanted lithium niobate crystals. Applied Physics Letters, 2010, 96, .	3.3	15
164	Fresnel diffraction of spin waves. Physical Review B, 2018, 98, .	3.2	15
165	Persistent photoconductivity in overdoped high-Tc thin films. Physical Review B, 1997, 56, 13742-13745.	3.2	14
166	Exciton Energy Structure in Wurtzite GaN. Physica Status Solidi (B): Basic Research, 1999, 216, 21-26.	1.5	14
167	Site inequivalence for Mn ²⁺ substitution on Zn sites in ZnGeP ₂ and ZnSiP ₂ . Physica Status Solidi (B): Basic Research, 2005, 242, R14-R16.	1.5	14
168	Coherent Inelastic Light Scattering from a Microwave-Excited Array of Magnetic Particles. Physical Review Letters, 2006, 96, 047401.	7.8	14
169	Mapping microwave field distributions via the spin Hall effect. Applied Physics Letters, 2012, 101, .	3.3	14
170	Determination of spin relaxation times in heavy metals via second-harmonic spin injection magnetoresistance. Physical Review B, 2017, 96, .	3.2	14
171	Size analysis of sub-resolution objects by Kerr microscopy. Applied Physics Letters, 2018, 112, .	3.3	14
172	Simultaneous Optical and Electrical Spin-Torque Magnetometry with Phase-Sensitive Detection of Spin Precession. Physical Review Applied, 2019, 11, .	3.8	14
173	Generation and Hall effect of skyrmions enabled using nonmagnetic point contacts. Physical Review B, 2019, 100, .	3.2	14
174	A Small Signal Amplifier Based on Ionic Liquid Gated Black Phosphorous Field Effect Transistor. IEEE Electron Device Letters, 2015, 36, 621-623.	3.9	13
175	New Pathways Towards Efficient Metallic Spin Hall Spintronics. Spin, 2015, 05, 1530005.	1.3	13
176	The pairing mechanism in HTSC investigated by electronic Raman scattering. Journal of Low Temperature Physics, 1995, 99, 201-203.	1.4	12
177	Investigating magnetic proximity effects in NiO/Pd with polarized neutron reflectometry. Physical Review B, 2001, 65, .	3.2	12
178	Heteroepitaxy of ZnO on GaN Templates. Physica Status Solidi (B): Basic Research, 2002, 229, 907-910.	1.5	12
179	Magnetotransport Properties in Epitaxial Exchange-Biased La _{2/3} Ca _{1/3} MnO ₃ /La _{1/3} Ca _{2/3} MnO ₃ Superlattices. IEEE Transactions on Magnetics, 2006, 42, 2981-2983.	2.1	12
180	Exchange-Biased Magnetic Vortices. IEEE Transactions on Magnetics, 2008, 44, 1968-1973.	2.1	12

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181	Fe-doping and strain effects on structural and magnetotransport properties in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. Physical Review B, 2008, 77, .	3.2	12
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