

# Andrei I Kirilyuk

## List of Publications by Year in descending order

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256  
papers

15,367  
citations

26567

56  
h-index

18606

119  
g-index

270  
all docs

270  
docs citations

270  
times ranked

7946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast optical manipulation of magnetic order. <i>Reviews of Modern Physics</i> , 2010, 82, 2731-2784.	16.4	1,451
2	All-Optical Magnetic Recording with Circularly Polarized Light. <i>Physical Review Letters</i> , 2007, 99, 047601.	2.9	1,167
3	Ultrafast non-thermal control of magnetization by instantaneous photomagnetic pulses. <i>Nature</i> , 2005, 435, 655-657.	13.7	979
4	Transient ferromagnetic-like state mediating ultrafast reversal of antiferromagnetically coupled spins. <i>Nature</i> , 2011, 472, 205-208.	13.7	828
5	Ultrafast heating as a sufficient stimulus for magnetization reversal in a ferrimagnet. <i>Nature Communications</i> , 2012, 3, 666.	5.8	588
6	Laser-induced ultrafast spin reorientation in the antiferromagnet TmFeO <sub>3</sub> . <i>Nature</i> , 2004, 429, 850-853.	13.7	568
7	Ultrafast Path for Optical Magnetization Reversal via a Strongly Nonequilibrium State. <i>Physical Review Letters</i> , 2009, 103, 117201.	2.9	367
8	Inertia-driven spin switching in antiferromagnets. <i>Nature Physics</i> , 2009, 5, 727-731.	6.5	306
9	Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo. <i>Nature Materials</i> , 2013, 12, 293-298.	13.3	267
10	Ultrafast spin dynamics across compensation points in ferrimagnetic GdFeCo: The role of angular momentum compensation. <i>Physical Review B</i> , 2006, 73, .	1.1	260
11	Laser-Induced Magnetic Nanostructures with Tunable Topological Properties. <i>Physical Review Letters</i> , 2013, 110, 177205.	2.9	256
12	Role of Magnetic Circular Dichroism in All-Optical Magnetic Recording. <i>Physical Review Letters</i> , 2012, 108, 127205.	2.9	253
13	Ultrafast nonthermal photo-magnetic recording in a transparent medium. <i>Nature</i> , 2017, 542, 71-74.	13.7	237
14	Ultrafast Spin Dynamics in Multisublattice Magnets. <i>Physical Review Letters</i> , 2012, 108, 057202.	2.9	217
15	Femtosecond Photomagnetic Switching of Spins in Ferrimagnetic Garnet Films. <i>Physical Review Letters</i> , 2005, 95, 047402.	2.9	191
16	Laser-induced magnetization dynamics and reversal in ferrimagnetic alloys. <i>Reports on Progress in Physics</i> , 2013, 76, 026501.	8.1	191
17	All-optical magnetization reversal by circularly polarized laser pulses: Experiment and multiscale modeling. <i>Physical Review B</i> , 2012, 85, .	1.1	190
18	Subpicosecond Magnetization Reversal across Ferrimagnetic Compensation Points. <i>Physical Review Letters</i> , 2007, 99, 217204.	2.9	189

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19	Persistent photoconductivity in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> films as a method of photodoping toward metallic and superconducting phases. <i>Physical Review B</i> , 1993, 47, 9017-9028.	1.1	165
20	The 2020 magnetism roadmap. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 453001.	1.3	162
21	Structure Determination of Isolated Metal Clusters via Far-Infrared Spectroscopy. <i>Physical Review Letters</i> , 2004, 93, 023401.	2.9	161
22	Nonthermal ultrafast optical control of the magnetization in garnet films. <i>Physical Review B</i> , 2006, 73, .	1.1	147
23	Laser-induced ultrafast spin dynamics in ErFeO <sub>3</sub> . <i>Physical Review B</i> , 2011, 84, .	1.1	145
24	Growth and morphology of ultrathin Fe films on Cu(001). <i>Physical Review B</i> , 1995, 52, 8528-8534.	1.1	144
25	Interface Magnetism and Possible Quantum Well Oscillations in Ultrathin Co/Cu Films Observed by Magnetization Induced Second Harmonic Generation. <i>Physical Review Letters</i> , 1995, 74, 1462-1465.	2.9	139
26	Photoinduced superconductivity in YBaCuO films. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 151, 358-364.	0.9	135
27	Crystallographically amorphous ferrimagnetic alloys: Comparing a localized atomistic spin model with experiments. <i>Physical Review B</i> , 2011, 84, .	1.1	130
28	Impulsive Generation of Coherent Magnons by Linearly Polarized Light in the Easy-Plane Antiferromagnet FeBO <sub>3</sub> . <i>Physical Review Letters</i> , 2007, 99, 167205.	2.9	126
29	Nanoscale Confinement of All-Optical Magnetic Switching in TbFeCo - Competition with Nanoscale Heterogeneity. <i>Nano Letters</i> , 2015, 15, 6862-6868.	4.5	126
30	Magnetization reversal in ultrathin ferromagnetic films with perpendicular anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 1997, 171, 45-63.	1.0	123
31	Coherent Control of the Route of an Ultrafast Magnetic Phase Transition via Low-Amplitude Spin Precession. <i>Physical Review Letters</i> , 2012, 108, 157601.	2.9	107
32	Observation of a Transversal Nonlinear Magneto-Optical Effect in Thin Magnetic Garnet Films. <i>Physical Review Letters</i> , 1997, 78, 2004-2007.	2.9	105
33	Femtosecond optomagnetics: ultrafast laser manipulation of magnetic materials. <i>Laser and Photonics Reviews</i> , 2007, 1, 275-287.	4.4	103
34	Magnetization-induced-second-harmonic generation from surfaces and interfaces. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 148.	0.9	100
35	Impulsive excitation of coherent magnons and phonons by subpicosecond laser pulses in the weak ferromagnet FeBO <sub>3</sub> . <i>Physical Review B</i> , 2008, 78, .	1.1	92
36	Controlling optical transmission through magneto-plasmonic crystals with an external magnetic field. <i>New Journal of Physics</i> , 2008, 10, 105012.	1.2	89

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37	Ultrafast Interaction of the Angular Momentum of Photons with Spins in the Metallic Amorphous Alloy GdFeCo. Physical Review Letters, 2007, 98, 207401.	2.9	88
38	Element-Specific Probing of Ultrafast Spin Dynamics in Multisublattice Magnets with Visible Light. Physical Review Letters, 2013, 110, 107205.	2.9	85
39	Ultrafast phononic switching of magnetization. Nature Physics, 2021, 17, 489-492.	6.5	85
40	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. Spin, 2015, 05, 1550004.	0.6	81
41	All-optical observation and reconstruction of spin wave dispersion. Nature Communications, 2017, 8, 15859.	5.8	80
42	A combined nonlinear and linear magneto-optical microscopy. Applied Physics Letters, 1997, 70, 2306-2308.	1.5	76
43	Optical excitation of antiferromagnetic resonance in TmFeO <sub>3</sub> . Physical Review B, 2006, 74, .	1.1	75
44	Structure determination of small vanadium clusters by density-functional theory in comparison with experimental far-infrared spectra. Journal of Chemical Physics, 2005, 122, 124302.	1.2	74
45	Nanoscale sub-100 picosecond all-optical magnetization switching in GdFeCo microstructures. Nature Communications, 2015, 6, 5839.	5.8	74
46	Single-shot all-optical switching of magnetization in Tb/Co multilayer-based electrodes. Scientific Reports, 2020, 10, 5211.	1.6	68
47	Viral capsids as templates for the production of monodisperse Prussian blue nanoparticles. Chemical Communications, 2008, , 1542.	2.2	67
48	Growth of stabilized $\hat{d}^3$ -Fe films and their magnetic properties. Physical Review B, 1996, 54, 1050-1063.	1.1	65
49	Nonlinear optics in application to magnetic surfaces and thin films. Journal Physics D: Applied Physics, 2002, 35, R189-R207.	1.3	65
50	Large ultrafast photoinduced magnetic anisotropy in a cobalt-substituted yttrium iron garnet. Physical Review B, 2010, 81, .	1.1	63
51	Control of the Ultrafast Photoinduced Magnetization across the Morin Transition in $\text{DyFeO}_3$ . Physical Review Letters, 2016, 116, 097401.	2.9	63
52	Infrared spectroscopy of gas-phase zirconium oxide clusters. Chemical Physics, 2000, 262, 31-39.	0.9	62
53	Nonthermal optical control of magnetism and ultrafast laser-induced spin dynamics in solids. Journal of Physics Condensed Matter, 2007, 19, 043201.	0.7	62
54	Multiscale dynamics of helicity-dependent all-optical magnetization reversal in ferromagnetic Co/Pt multilayers. Physical Review B, 2017, 96, .	1.1	61

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55	Selection rules for all-optical magnetic recording in iron garnet. Nature Communications, 2019, 10, 612.	5.8	60
56	Plasmonic layer-selective all-optical switching of magnetization with nanometer resolution. Nature Communications, 2019, 10, 4786.	5.8	59
57	Pathways for Single-Shot All-Optical Switching of Magnetization in Ferrimagnets. Physical Review Applied, 2020, 13, .	1.5	59
58	Picosecond Dynamics of the Photoinduced Spin Polarization in Epitaxial (Ga,Mn)As Films. Physical Review Letters, 2004, 92, 237203.	2.9	58
59	Ultrafast Magnetism of a Ferrimagnet across the Spin-Flop Transition in High Magnetic Fields. Physical Review Letters, 2017, 118, 117203.	2.9	58
60	Demonstration of laser induced magnetization reversal in GdFeCo nanostructures. Applied Physics Letters, 2012, 101, .	1.5	54
61	Laser Excitation of Lattice-Driven Anharmonic Magnetization Dynamics in Dielectric $\text{FeBO}_3$ . Physical Review Letters, 2014, 112, 147403.	2.9	54
62	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. Nature Communications, 2019, 10, 1756.	5.8	54
63	Second harmonic generation in anisotropic magnetic films. Physical Review B, 2001, 63, .	1.1	52
64	Nonlinear Magneto-Optical Response from Quantum Well States in Noble Metals: Double Period and Interface Localization. Physical Review Letters, 1996, 77, 4608-4611.	2.9	51
65	Observation of Giant Magnetic Linear Dichroism in (Ga,Mn)As. Physical Review Letters, 2005, 94, 227203.	2.9	51
66	Direct Observation of Exchange Bias Related Uncompensated Spins at the CoO/Cu Interface. Physical Review Letters, 2006, 96, 067206.	2.9	48
67	Laser induced spin precession in highly anisotropic granular L1 FePt. Applied Physics Letters, 2014, 104, .	1.5	48
68	Magnetization manipulation in (Ga,Mn)As by subpicosecond optical excitation. Applied Physics Letters, 2005, 86, 152506.	1.5	46
69	Anomalously Damped Heat-Assisted Route for Precessional Magnetization Reversal in an Iron Garnet. Physical Review Letters, 2019, 122, 027202.	2.9	43
70	Domain Walls in Ultrathin Ferromagnetic Films: Velocity and Fractal Dimension. Europhysics Letters, 1993, 24, 403-408.	0.7	42
71	Frequency and wavenumber selective excitation of spin waves through coherent energy transfer from elastic waves. Physical Review B, 2018, 97, .	1.1	42
72	Highly efficient all-optical switching of magnetization in GdFeCo microstructures by interference-enhanced absorption of light. Physical Review B, 2012, 86, .	1.1	41

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73	Role of the inter-sublattice exchange coupling in short-laser-pulse-induced demagnetization dynamics of GdCo and GdCoFe alloys. <i>Physical Review B</i> , 2013, 87, .	1.1	41
74	All-thermal switching of amorphous Gd-Fe alloys: Analysis of structural properties and magnetization dynamics. <i>Physical Review B</i> , 2015, 92, .	1.1	41
75	Optical Excitation of a Forbidden Magnetic Resonance Mode in a Doped Lutetium-Iron-Garnet Film via the Inverse Faraday Effect. <i>Physical Review Letters</i> , 2010, 105, 107402.	2.9	40
76	Dielectric magnonics: from gigahertz to terahertz. <i>Physics-Uspekhi</i> , 2020, 63, 945-974.	0.8	40
77	Ultrafast time-resolved magneto-optical imaging of all-optical switching in GdFeCo with femtosecond time-resolution and a 174m spatial-resolution. <i>Review of Scientific Instruments</i> , 2014, 85, 063702.	0.6	37
78	Domain wall dynamics in ultrathin Au/Co/Au films. <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 121, 536-538.	1.0	36
79	Femtosecond Laser Excitation of Spin Resonances in Amorphous Ferrimagnetic $Gd_{1-x}Fe_x$ . <i>Physical Review Letters</i> , 2011, 107, 117202.	2.9	36
80	Integration of Tb/Co multilayers within optically switchable perpendicular magnetic tunnel junctions. <i>AIP Advances</i> , 2019, 9, .	0.6	36
81	Dynamics of laser-induced spin reorientation in Co/SmFeO <sub>3</sub> heterostructure. <i>Physical Review B</i> , 2013, 87, .	1.1	35
82	Optical excitation of thin magnetic layers in multilayer structures. <i>Nature Materials</i> , 2014, 13, 101-102.	13.3	35
83	Anisotropic magnetization-induced second harmonic generation in Fe/Au superlattices. <i>Physical Review B</i> , 2001, 64, .	1.1	33
84	Optical Properties of Thulium Orthoferrite TmFeO <sub>3</sub> . <i>Physics of the Solid State</i> , 2005, 47, 2292.	0.2	33
85	Ferrimagnetic cagelike $Tm_4Fe_3$ Structure determination from infrared dissociation spectroscopy. <i>Physical Review B</i> , 2010, 82, .	1.1	33
86	Nonlinear Surface Magnetoplasmonics in Kretschmann Multilayers. <i>ACS Photonics</i> , 2016, 3, 179-183.	3.2	33
87	Optical and magneto-optical studies of a multiferroic GaFeO <sub>3</sub> with a high Curie temperature. <i>JETP Letters</i> , 2005, 81, 452-457.	0.4	32
88	Treatment of $f$ states of the rare earths: The case study of TbN. <i>Physical Review B</i> , 2014, 89, .		32
89	Probing structure and magnetism of CoNi/Pt interfaces by nonlinear magneto-optics. <i>Applied Physics Letters</i> , 1998, 72, 2331-2333.	1.5	31
90	Magnetic Field Alignment of Liquid Crystals for Fast Display Applications. <i>Advanced Materials</i> , 2005, 17, 610-614.	11.1	31

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91	Laser-induced manipulation of magnetic anisotropy and magnetization precession in an ultrathin cobalt wedge. <i>Physical Review B</i> , 2012, 85, .	1.1	31
92	Electrically tunable detector of THz-frequency signals based on an antiferromagnet. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	31
93	Investigation of laser-induced demagnetization in Gd <sub>x</sub> Fe <sub>1-x</sub> alloys. <i>Physical Review B</i> , 2012, 85, .	1.1	30
94	Exchange interactions in transition metal oxides: the role of oxygen spin polarization. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 335801.	0.7	30
95	Domain structures during magnetization reversal in exchange-biased layers. <i>Journal of Applied Physics</i> , 2002, 91, 7745.	1.1	29
96	Investigation of the femtosecond inverse Faraday effect using paramagnetic Dy <sub>3</sub> Fe <sub>5</sub> Si <sub>8</sub> . <i>Physical Review B</i> , 2010, 81, .	1.1	29
97	Theory for the nonlinear optical response of quantum-well states in ultrathin films. <i>Physical Review B</i> , 1998, 57, 7377-7384.	1.1	28
98	Magnon-magnon interactions in a room-temperature magnonic Bose-Einstein condensate. <i>Physical Review B</i> , 2017, 96, .	1.1	28
99	Helicity and field dependent magnetization dynamics of ferromagnetic Co/Pt multilayers. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	27
100	Dual-shot dynamics and ultimate frequency of all-optical magnetic recording on GdFeCo. <i>Light: Science and Applications</i> , 2021, 10, 8.	7.7	26
101	Interaction of the moving domain wall with phonons. <i>Journal of Magnetism and Magnetic Materials</i> , 1991, 102, 339-353.	1.0	25
102	Observation of periodic oscillations in magnetization-induced second harmonic generation at the Mn <sub>2</sub> Te/Cu interface. <i>Physical Review B</i> , 2007, 75, .	1.1	25
103	Interface magnetic and optical anisotropy of ultrathin Co films grown on a vicinal Si substrate. <i>Physical Review B</i> , 2009, 80, .	1.1	25
104	Nonlocal nonlinear magneto-optical response of a magnetoplasmonic crystal. <i>Physical Review B</i> , 2013, 88, .	1.1	25
105	Exchange-driven all-optical magnetic switching in compensated ferrimagnets. <i>Physical Review Research</i> , 2020, 2, .	1.1	24
106	Dependence of photoinduced superconductivity on illumination dose in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.4</sub> films. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 157, 290-294.	0.9	23
107	Magneto-optical study of holmium iron garnet Ho <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> . <i>Low Temperature Physics</i> , 2012, 38, 863-869.	0.2	23
108	Second-Harmonic Generation from a Magnetic Buried Interface Enhanced by an Interplay of Surface Plasma Resonances. <i>ACS Photonics</i> , 2015, 2, 20-26.	3.2	23

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109	Magnetic and all-optical switching properties of amorphous $\text{Tb}_{0.9}\text{Gd}_{0.1}$ . Physical Review Materials, 2020, 4, .		
110	Irreversible modification of magnetic properties of Pt/Co/Pt ultrathin films by femtosecond laser pulses. Journal of Applied Physics, 2014, 115, 053906.	1.1	22
111	Excitation of magnetic precession in bismuth iron garnet via a polarization-independent impulsive photomagnetic effect. Physical Review B, 2015, 91, .	1.1	22
112	Magnetism and exchange interaction of small rare-earth clusters; Tb as a representative. Scientific Reports, 2016, 6, 19676.	1.6	22
113	Deterministic character of all-optical magnetization switching in GdFe-based ferrimagnetic alloys. Physical Review B, 2016, 93, .	1.1	22
114	Spectrum of persistent photoconductivity in YBaCuO films. Solid State Communications, 1992, 81, 41-45.	0.9	21
115	Enhancement of optical and magneto-optical effects in three-dimensional opal/ $\text{Fe}_3\text{O}_4$ magnetic photonic crystals. Applied Physics Letters, 2008, 93, 072502.	1.5	21
116	Direct comparison of nonlinear and linear Kerr-effect measurements on thin Co films on Cu(001). Journal of Magnetism and Magnetic Materials, 1995, 148, 295-297.	1.0	20
117	Unusual surfactant effect and the stability of pseudomorphic $\hat{1}^3\text{-Fe}$ films. Physical Review B, 1995, 52, R11672-R11680.	1.1	20
118	Optical and magneto-optical properties of bismuth and gallium substituted iron garnet films. Thin Solid Films, 2004, 455-456, 429-432.	0.8	20
119	Coherent control of surface plasmon polariton mediated optical transmission. Journal Physics D: Applied Physics, 2008, 41, 195102.	1.3	19
120	Optical energy optimization at the nanoscale by near-field interference. Applied Physics Letters, 2012, 101, .	1.5	19
121	Multiferroic Rhodium Clusters. Physical Review Letters, 2014, 113, 157203.	2.9	19
122	Geometric, electronic, and magnetic structure of $\text{Fe}_x\text{Ni}_{1-x}$ . Physical Review B, 2015, 92, .	1.1	19
123	Towards massively parallelized all-optical magnetic recording. Journal of Applied Physics, 2018, 123, .	1.1	19
124	Spintronic terahertz-frequency nonlinear emitter based on the canted antiferromagnet-platinum bilayers. Journal of Applied Physics, 2019, 125, .	1.1	19
125	Asymmetry of second harmonic generation in magnetic thin films under circular optical excitation. Physical Review B, 2000, 61, R3796-R3799.	1.1	18
126	Kramers degeneracy and relaxation in vanadium, niobium and tantalum clusters. New Journal of Physics, 2018, 20, 043042.	1.2	18



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127	Voltage-Controlled Anisotropy and Current-Induced Magnetization Dynamics in Antiferromagnetic-Piezoelectric Layered Heterostructures. <i>Physical Review Applied</i> , 2020, 13, .	1.5	18
128	Apertureless SNOM study on gold nanoparticles: Experiments and simulations. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2047-2050.	0.7	17
129	The role of magnetization compensation point for efficient ultrafast control of magnetization in Gd <sub>24</sub> Fe <sub>66.5</sub> Co <sub>9.5</sub> alloy. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	17
130	All-optical helicity-dependent magnetic switching by first-order azimuthally polarized vortex beams. <i>Applied Physics Letters</i> , 2018, 113, 171108.	1.5	17
131	Influence of quadratic contributions in magnetization-induced second harmonic generation studies of magnetization reversal. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 3027-3031.	0.7	16
132	Structure investigation of Co <sub>x</sub> O <sub>y</sub> + (x=3â€‘6, y=3â€‘8) clusters by IR vibrational spectroscopy and DFT calculations. <i>European Physical Journal D</i> , 2014, 68, 1.	0.6	16
133	Single picojoule pulse switching of magnetization in ferromagnetic (Ga,Mn)As. <i>Applied Physics Letters</i> , 2010, 97, 232503.	1.5	15
134	Size dependent magnetic moments and electric polarizabilities of free Tb, Ho, and Tm clusters. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	15
135	Tunable magnetic properties in ultrathin Co/garnet heterostructures. <i>Journal of Applied Physics</i> , 2012, 111, 023913.	1.1	15
136	Communication: Structure of magnetic lanthanide clusters from far-IR spectroscopy: $\{m\text{Tb}\}_n^{+}$ Tb <sub>n</sub> <sup>+</sup> ( <i>i&gt;n&lt;/i&gt; = 5â€‘9). <i>Journal of Chemical Physics</i>, 2013, 138, 031102.</i>	1.2	15
137	Surface plasmon-driven second-harmonic generation asymmetry in anisotropic plasmonic crystals. <i>Physical Review B</i> , 2016, 93, .	1.1	15
138	High-Resolution Magneto-Optical Kerr-Effect Spectroscopy of Magnon Boseâ€‘Einstein Condensate. <i>IEEE Magnetics Letters</i> , 2016, 7, 1-5.	0.6	14
139	Fundamental Limits on the Repetition Rate of Photomagnetic Recording. <i>Physical Review Applied</i> , 2019, 12, .	1.5	14
140	Temperature effects on domain wall dynamics in ultrathin ferromagnetic films. <i>IEEE Transactions on Magnetics</i> , 1993, 29, 2518-2520.	1.2	13
141	Atomic clusters of magnetic oxides: Structure and phonons. <i>Journal of Applied Physics</i> , 2003, 93, 7379-7381.	1.1	13
142	Selective surface/interface characterization of thin garnet films by magnetization-induced second-harmonic generation. <i>Physical Review B</i> , 2004, 70, .	1.1	13
143	Influence of laser pulse shaping on the ultrafast dynamics in antiferromagnetic NiO. <i>Physical Review B</i> , 2010, 82, .	1.1	13
144	Orbit and spin resolved magnetic properties of size selected [Co <sub>n</sub> Rh] <sup>+</sup> and [Co <sub>n</sub> Au] <sup>+</sup> nanoalloy clusters. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28372-28378.	1.3	13

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145	Domain Wall Motion Across Magnetic and Spin Compensation Points in Magnetic Garnets. <i>Physical Review Applied</i> , 2021, 15, .	1.5	13
146	Nonlinear magneto-optical imaging of interface magnetic structures. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 198-199, 620-623.	1.0	12
147	Optical study of three-dimensional magnetic photonic crystals opal/Fe <sub>3</sub> O <sub>4</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 840-842.	1.0	12
148	Bias-controlled ultrafast demagnetization in magnetic tunnel junctions. <i>Physical Review B</i> , 2014, 89, .	1.1	12
149	Correlation effects and orbital magnetism of Co clusters. <i>Physical Review B</i> , 2016, 93, .	1.1	12
150	Effect of gold plasmonic shell on nonlinear optical characteristics and structure of iron based nanoparticles. <i>Applied Surface Science</i> , 2019, 479, 114-118.	3.1	12
151	Ultrafast demagnetization in a ferrimagnet under electromagnetic field funneling. <i>Nanoscale</i> , 2021, 13, 19367-19375.	2.8	12
152	On the Barkhausen volume in ultrathin magnetic films with perpendicular anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 159, L27-L32.	1.0	11
153	Surface magnetism of Ni(110) probed by magnetic second harmonic generation. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 198-199, 695-697.	1.0	11
154	Spin-reorientation in the heterostructure Co/SmFeO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , 2009, 21, 446004.	0.7	11
155	The effect of oxygen doping on the magnetism of Tb and Pr clusters. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	11
156	Controlling spins with light. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 3631-3645.	1.6	11
157	Channeling Vibrational Energy To Probe the Electronic Density of States in Metal Clusters. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 750-754.	2.1	11
158	Effect of laser pulse propagation on ultrafast magnetization dynamics in a birefringent medium. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 164004.	0.7	11
159	Magnetization dynamics of the compensated ferrimagnet $\text{Mn}_2\text{Mn}_2\text{O}_{12}$ . <i>Physical Review B</i> , 2019, 100, .		
160	Efficient All-Optical Helicity Dependent Switching of Spins in a Pt/Co/Pt Film by a Dual-Pulse Excitation. <i>Frontiers in Nanotechnology</i> , 2022, 4, .	2.4	11
161	Nonlinear and linear Kerr studies of multilayers. <i>Surface Science</i> , 1995, 331-333, 1294-1298.	0.8	10
162	Observation of strong magnetic effects in visible-infrared sum frequency generation from magnetic structures. <i>Physical Review B</i> , 2000, 62, R783-R786.	1.1	10

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163	High-field anomalies of equilibrium and ultrafast magnetism in rare-earth transition-metal ferrimagnets. <i>Physical Review B</i> , 2019, 100, .	1.1	10
164	Surface-induced transverse magneto-optical Kerr effect. <i>Physical Review B</i> , 1999, 59, 4211-4214.	1.1	9
165	Linear and nonlinear magneto-optical diffraction from one-dimensional periodic structures. <i>Journal of Applied Physics</i> , 2003, 93, 7903-7905.	1.1	9
166	Ultrafast all-optical control of the magnetization in magnetic dielectrics. <i>Low Temperature Physics</i> , 2006, 32, 748-767.	0.2	9
167	Velocity distribution of CO desorbing from NiO(100)/Ni(100) after picosecond UV laser irradiation. <i>Chemical Physics Letters</i> , 2006, 420, 110-114.	1.2	9
168	Valence and spectral properties of rare-earth clusters. <i>Physical Review B</i> , 2015, 92, .	1.1	9
169	Spectrally resolved optical probing of laser induced magnetization dynamics in bismuth iron garnet. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 276002.	0.7	9
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