

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	Magnetic domain wall motion driven by an acoustic wave. <i>Ultrasonics</i> , 2022, 119, 106588.	2.1	4
2	Overlapping effect in dense all-optical, point-by-point recording of holographic patterns in the ferrimagnetic alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 548, 168989.	1.0	2
3	Silicon-substrate-induced enhancement of infrared light absorption for all-optical magnetic switching. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	2
4	Phononic manipulation of antiferromagnetic domains in NiO. <i>New Journal of Physics</i> , 2022, 24, 023009.	1.2	9
5	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
6	Theory of Antiferromagnet-Based Detector of Terahertz Frequency Signals. <i>Magnetochemistry</i> , 2022, 8, 26.	1.0	9
7	Optically initialized and current-controlled logical element based on antiferromagnetic-heavy metal heterostructures for neuromorphic computing. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	5
8	Cavity-dumping a single infrared pulse from a free-electron laser for two-color pump-probe experiments. <i>Review of Scientific Instruments</i> , 2022, 93, 043007.	0.6	2
9	Ultrafast phononic switching of magnetization. <i>Nature Physics</i> , 2021, 17, 489-492.	6.5	85
10	Ultrafast demagnetization in a ferrimagnet under electromagnetic field funneling. <i>Nanoscale</i> , 2021, 13, 19367-19375.	2.8	12
11	Sub-picosecond exchange-relaxation in the compensated ferrimagnet Mn ₂ Ru x Ga. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 135804.	0.7	7
12	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
13	Temperature tunable oscillator of THz-frequency signals based on the orthoferrite/heavy metal heterostructure. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 195001.	1.3	5
14	All-optical spin switching probability in [Tb/Co] multilayers. <i>Scientific Reports</i> , 2021, 11, 6576.	1.6	9
15	Domain Wall Motion Across Magnetic and Spin Compensation Points in Magnetic Garnets. <i>Physical Review Applied</i> , 2021, 15, .	1.5	13
16	Structures and Magnetism of Cationic Chromium-Manganese Bimetallic Oxide Clusters. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2598-2608.	1.5	2
17	Electrically tunable detector of THz-frequency signals based on an antiferromagnet. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	31
18	THz generation and frequency manipulation in AFM/HM interfaces. <i>Journal of Physics: Conference Series</i> , 2020, 1461, 012171.	0.3	2

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19	The 2020 magnetism roadmap. Journal Physics D: Applied Physics, 2020, 53, 453001.	1.3	162
20	Tuning the optical response of cross-linked Fe@Au nanoparticles. Applied Surface Science, 2020, 514, 145921.	3.1	0
21	Pathways for Single-Shot All-Optical Switching of Magnetization in Ferrimagnets. Physical Review Applied, 2020, 13, .	1.5	59
22	Voltage-Controlled Anisotropy and Current-Induced Magnetization Dynamics in Antiferromagnetic-Piezoelectric Layered Heterostructures. Physical Review Applied, 2020, 13, .	1.5	18
23	Single-shot all-optical switching of magnetization in Tb/Co multilayer-based electrodes. Scientific Reports, 2020, 10, 5211.	1.6	68
24	Magnetic and all-optical switching properties of amorphous $\text{Tb}_{0.9}\text{Co}_{0.1}$. Physical Review Materials, 2020, 4, .	0.9	28
25	Exchange-driven all-optical magnetic switching in compensated $3d/4f$ ferrimagnets. Physical Review Research, 2020, 2, .	1.8	24
26	Giant magneto-refractive effect in mid-infrared second-harmonic generation from plasmonic antennas. Optics Letters, 2020, 45, 4296.	1.7	3
27	Dielectric magnonics: from gigahertz to terahertz. Physics-Usppekhi, 2020, 63, 945-974.	0.8	40
28	Controlling magnetic domain wall velocity by femtosecond laser pulses. Journal of Physics Condensed Matter, 2020, 33, 075802.	0.7	5
29	Plasmonic layer-selective all-optical switching of magnetization with nanometer resolution. Nature Communications, 2019, 10, 4786.	5.8	59
30	Magnetization dynamics of the compensated ferrimagnet Mn_2Mn . Physical Review B, 2019, 100, .	1.2	11
31	Fundamental Limits on the Repetition Rate of Photomagnetic Recording. Physical Review Applied, 2019, 12, .	1.5	14
32	Spintronic terahertz-frequency nonlinear emitter based on the canted antiferromagnet-platinum bilayers. Journal of Applied Physics, 2019, 125, .	1.1	19
33	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. Nature Communications, 2019, 10, 1756.	5.8	54
34	Selection rules for all-optical magnetic recording in iron garnet. Nature Communications, 2019, 10, 612.	5.8	60
35	Effect of gold plasmonic shell on nonlinear optical characteristics and structure of iron based nanoparticles. Applied Surface Science, 2019, 479, 114-118.	3.1	12
36	Integration of Tb/Co multilayers within optically switchable perpendicular magnetic tunnel junctions. AIP Advances, 2019, 9, .	0.6	36

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37	High-field anomalies of equilibrium and ultrafast magnetism in rare-earth transition-metal ferrimagnets. <i>Physical Review B</i> , 2019, 100, .	1.1	10
38	Magnetic properties of oxygen doped samarium clusters. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 074002.	0.7	0
39	Anomalously Damped Heat-Assisted Route for Precessional Magnetization Reversal in an Iron Garnet. <i>Physical Review Letters</i> , 2019, 122, 027202.	2.9	43
40	Direct IR Spectroscopic Detection of a Low-Lying Electronic State in a Metal Carbide Cluster. <i>ChemPhysChem</i> , 2018, 19, 1424-1427.	1.0	5
41	Magnetic properties of Co-doped Nb clusters. <i>Physical Review B</i> , 2018, 97, .	1.1	6
42	Frequency and wavenumber selective excitation of spin waves through coherent energy transfer from elastic waves. <i>Physical Review B</i> , 2018, 97, .	1.1	42
43	Magneto-optical Analysis of the Subsurface Region in a Bearing Ring Subjected to Rolling Contact Fatigue. <i>Tribology Transactions</i> , 2018, 61, 705-712.	1.1	3
44	Kramers degeneracy and relaxation in vanadium, niobium and tantalum clusters. <i>New Journal of Physics</i> , 2018, 20, 043042.	1.2	18
45	All-optical helicity-dependent magnetic switching by first-order azimuthally polarized vortex beams. <i>Applied Physics Letters</i> , 2018, 113, 171108.	1.5	17
46	Structural determination of neutral Co _n clusters (n=4-10,13) through IR-UV two-color vibrational spectroscopy and DFT calculations. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 494003.	0.7	4
47	Towards massively parallelized all-optical magnetic recording. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	19
48	Non-Heisenberg covalent magnetism in iron oxide clusters. <i>Physical Review Materials</i> , 2018, 2, .	0.9	6
49	Ultrafast nonthermal photo-magnetic recording in a transparent medium. <i>Nature</i> , 2017, 542, 71-74.	13.7	237
50	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
51	All-optical observation and reconstruction of spin wave dispersion. <i>Nature Communications</i> , 2017, 8, 15859.	5.8	80
52	Ultrafast Magnetism of a Ferrimagnet across the Spin-Flop Transition in High Magnetic Fields. <i>Physical Review Letters</i> , 2017, 118, 117203.	2.9	58
53	Magnon-magnon interactions in a room-temperature magnonic Bose-Einstein condensate. <i>Physical Review B</i> , 2017, 96, .	1.1	28
54	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

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55	Multiscale dynamics of helicity-dependent all-optical magnetization reversal in ferromagnetic Co/Pt multilayers. Physical Review B, 2017, 96, .	1.1	61
56	Femtosecond single-shot imaging and control of a laser-induced first-order phase transition in HoFeO ₃ . Journal of Physics Condensed Matter, 2017, 29, 224003.	0.7	9
57	Publisher's Note: Multiscale dynamics of helicity-dependent all-optical magnetization reversal in ferromagnetic Co/Pt multilayers [Phys. Rev. B 96 , 224421 (2017)]. Physical Review B, 2017, 96, .	1.1	3
58	Helicity and field dependent magnetization dynamics of ferromagnetic Co/Pt multilayers. Applied Physics Letters, 2016, 109, .	1.5	27
59	Layer-sensitive magneto-optical spectroscopic study of magnetization dynamics in multilayered RE-TM structures. Applied Physics Letters, 2016, 109, .	1.5	8
60	Magnetism and exchange interaction of small rare-earth clusters; Tb as a representative. Scientific Reports, 2016, 6, 19676.	1.6	22
61	Determination of the geometric structure of neutral niobium carbide clusters via infrared spectroscopy. Journal of Chemical Physics, 2016, 145, 164305.	1.2	7
62	High-Resolution Magneto-Optical Kerr-Effect Spectroscopy of Magnon Bose-Einstein Condensate. IEEE Magnetics Letters, 2016, 7, 1-5.	0.6	14
63	Spectrally resolved optical probing of laser induced magnetization dynamics in bismuth iron garnet. Journal of Physics Condensed Matter, 2016, 28, 276002.	0.7	9
64	Deterministic character of all-optical magnetization switching in GdFe-based ferrimagnetic alloys. Physical Review B, 2016, 93, .	1.1	22
65	Surface plasmon-driven second-harmonic generation asymmetry in anisotropic plasmonic crystals. Physical Review B, 2016, 93, .	1.1	15
66	Correlation effects and orbital magnetism of Co clusters. Physical Review B, 2016, 93, .	1.1	12
67	Control of the Ultrafast Photoinduced Magnetization across the Morin Transition in DyFeO_3 . Physical Review Letters, 2016, 116, 097401.	2.9	68
68	The repopulation of electronic states upon vibrational excitation of niobium carbide clusters. Journal of Chemical Physics, 2016, 145, 024313.	1.2	7
69	Nonlinear Surface Magnetoplasmonics in Kretschmann Multilayers. ACS Photonics, 2016, 3, 179-183.	3.2	33
70	Asymmetric second harmonic generation in anisotropic plasmonic crystals. , 2016, , .		0
71	Excitation of magnetic precession in bismuth iron garnet via a polarization-independent impulsive photomagnetic effect. Physical Review B, 2015, 91, .	1.1	22
72	All-thermal switching of amorphous Gd-Fe alloys: Analysis of structural properties and magnetization dynamics. Physical Review B, 2015, 92, .	1.1	41

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73	Geometric, electronic, and magnetic structure of Fe_3Mg_2 . Physical Review B, 2015, 92, .		
74	Ultrafast laser-induced dynamics of noncollinear spin structures in amorphous NdFeCo and PrFeCo. Physical Review B, 2015, 92, .	1.1	3
75	Laser-induced magnetisation dynamics in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrRuO}_3$ superlattices. Physica Status Solidi - Rapid Research Letters, 2015, 9, 583-588.	1.2	4
76	Unusual Temperature Dependence of Magnetization and Possible Magnetic Noncollinearity in Tm and Pr Clusters. Journal of Physical Chemistry C, 2015, 119, 11153-11159.	1.5	6
77	Influence of the Magnetization Compensation Point on the All-Optical Magnetization Switching. Springer Proceedings in Physics, 2015, , 30-31.	0.1	0
78	Channeling Vibrational Energy To Probe the Electronic Density of States in Metal Clusters. Journal of Physical Chemistry Letters, 2015, 6, 750-754.	2.1	11
79	Nanoscale sub-100 picosecond all-optical magnetization switching in GdFeCo microstructures. Nature Communications, 2015, 6, 5839.	5.8	74
80	Second-Harmonic Generation from a Magnetic Buried Interface Enhanced by an Interplay of Surface Plasma Resonances. ACS Photonics, 2015, 2, 20-26.	3.2	23
81	Valence and spectral properties of rare-earth clusters. Physical Review B, 2015, 92, .	1.1	9
82	Publisher's Note: Multiferroic Rhodium Clusters [Phys. Rev. Lett.113, 157203 (2014)]. Physical Review Letters, 2015, 114, .	2.9	2
83	Orbit and spin resolved magnetic properties of size selected $[\text{Co}_n\text{Rh}]^+$ and $[\text{Co}_n\text{Au}]^+$ nanoalloy clusters. Physical Chemistry Chemical Physics, 2015, 17, 28372-28378.	1.3	13
84	Nanoscale Confinement of All-Optical Magnetic Switching in TbFeCo - Competition with Nanoscale Heterogeneity. Nano Letters, 2015, 15, 6862-6868.	4.5	126
85	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. Spin, 2015, 05, 1550004.	0.6	81
86	Engineering Ultrafast Magnetism. Springer Proceedings in Physics, 2015, , 297-299.	0.1	1
87	Balance of Angular Momentum and Magnetization Switching in Ferrimagnetic Alloys. Springer Proceedings in Physics, 2015, , 37-39.	0.1	0
88	Layer-Specific Probing of Ultrafast Spin Dynamics in Multilayered Magnets with Visible Light. Springer Proceedings in Physics, 2015, , 69-71.	0.1	0
89	Improving the Efficiency of Ultrafast Optical Control of Magnetism in GdFeCo Continuous Films and Submicron Structures. Springer Proceedings in Physics, 2015, , 267-269.	0.1	0
90	Ultrafast time-resolved magneto-optical imaging of all-optical switching in GdFeCo with femtosecond time-resolution and a $\frac{1}{4}\mu\text{m}$ spatial-resolution. Review of Scientific Instruments, 2014, 85, 063702.	0.6	37

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91	Treatment of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ states of the rare earths: The case study of TbN. Physical Review B, 2014, 89, .		32
92	Structure investigation of Co_xO_y ($x=3 \times 10^{-6}$, $y=3 \times 10^{-8}$) clusters by IR vibrational spectroscopy and DFT calculations. European Physical Journal D, 2014, 68, 1.	0.6	16
93	Attempting nanolocalization of all-optical switching through nano-holes in an Al-mask. Proceedings of SPIE, 2014, , .	0.8	3
94	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
95	Magneto-optical spectroscopy of surface/interfaces in Co/garnet heterostructures. Applied Surface Science, 2014, 305, 117-123.	3.1	8
96	Laser-induced magnetization dynamics in a cobalt/garnet heterostructure. Europhysics Letters, 2014, 105, 27006.	0.7	4
97	Optical excitation of thin magnetic layers in multilayer structures. Nature Materials, 2014, 13, 101-102.	13.3	35
98	Laser Excitation of Lattice-Driven Anharmonic Magnetization Dynamics in Dielectric $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{FeBO} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review Letters, 2014, 112, 147403.	2.9	54
99	Multiferroic Rhodium Clusters. Physical Review Letters, 2014, 113, 157203.	2.9	19
100	Bias-controlled ultrafast demagnetization in magnetic tunnel junctions. Physical Review B, 2014, 89, .	1.1	12
101	Laser induced spin precession in highly anisotropic granular L1 FePt. Applied Physics Letters, 2014, 104, .	1.5	48
102	Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo. Nature Materials, 2013, 12, 293-298.	13.3	267
103	Nonlocal nonlinear magneto-optical response of a magnetoplasmonic crystal. Physical Review B, 2013, 88, .	1.1	25
104	Communication: Structure of magnetic lanthanide clusters from far-IR spectroscopy: $\langle \text{mml:math} \rangle \langle \text{mml:mi} \rangle \text{Tb}_n \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ ($n = 5 \sim 9$). Journal of Chemical Physics, 2013, 138, 031102.	1.2	15
105	The Role of Angular Momentum in Ultrafast Magnetization Dynamics. Topics in Applied Physics, 2013, , 59-70.	0.4	0
106	Element-Specific Probing of Ultrafast Spin Dynamics in Multisublattice Magnets with Visible Light. Physical Review Letters, 2013, 110, 107205.	2.9	85
107	Laser-induced magnetization dynamics and reversal in ferrimagnetic alloys. Reports on Progress in Physics, 2013, 76, 026501.	8.1	191
108	Dynamics of laser-induced spin reorientation in Co/SmFeO $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ heterostructure. Physical Review B, 2013, 87, .	1.1	35

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109	Laser-Induced Magnetic Nanostructures with Tunable Topological Properties. Physical Review Letters, 2013, 110, 177205.	2.9	256
110	The role of magnetization compensation point for efficient ultrafast control of magnetization in Gd ₂₄ Fe _{66.5} Co _{9.5} alloy. European Physical Journal B, 2013, 86, 1.	0.6	17
111	Role of the inter-sublattice exchange coupling in short-laser-pulse-induced demagnetization dynamics of GdCo and GdCoFe alloys. Physical Review B, 2013, 87, .	1.1	41
112	Ultrafast generation of nanostructures with tunable topological properties by single laser pulse illumination. , 2013, , .		0
113	Direct mapping of plasmonic coupling between a triangular gold island pair. Applied Physics Letters, 2012, 100, .	1.5	7
114	Coherent Control of the Route of an Ultrafast Magnetic Phase Transition via Low-Amplitude Spin Precession. Physical Review Letters, 2012, 108, 157601.	2.9	107
115	Optical energy optimization at the nanoscale by near-field interference. Applied Physics Letters, 2012, 101, .	1.5	19
116	All-optical magnetization reversal by circularly polarized laser pulses: Experiment and multiscale modeling. Physical Review B, 2012, 85, .	1.1	190
117	Ultrafast magnetism as seen by x-rays. Proceedings of SPIE, 2012, , .	0.8	3
118	Highly efficient all-optical switching of magnetization in GdFeCo microstructures by interference-enhanced absorption of light. Physical Review B, 2012, 86, .	1.1	41
119	Tunable magnetic properties in ultrathin Co/garnet heterostructures. Journal of Applied Physics, 2012, 111, 023913.	1.1	15
120	Role of Magnetic Circular Dichroism in All-Optical Magnetic Recording. Physical Review Letters, 2012, 108, 127205.	2.9	253
121	Magneto-optical study of holmium iron garnet Ho ₃ Fe ₅ O ₁₂ . Low Temperature Physics, 2012, 38, 863-869.	0.2	23
122	Efficiency of ultrafast laser-induced demagnetization in Gd \times Fe \times 100 \hat{a}^{\sim} Physical Review B, 2012	1.1	30
123	Laser-induced manipulation of magnetic anisotropy and magnetization precession in an ultrathin cobalt wedge. Physical Review B, 2012, 85, .	1.1	31
124	Ultrafast Spin Dynamics in Multisublattice Magnets. Physical Review Letters, 2012, 108, 057202.	2.9	217
125	Nanostructuring of GdFeCo Thin Films for Laser Induced Magnetization Switching. Journal of the Magnetics Society of Japan, 2012, 36, 21-23.	0.5	8
126	Ultrafast heating as a sufficient stimulus for magnetization reversal in a ferrimagnet. Nature Communications, 2012, 3, 666.	5.8	588

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145	Size dependent magnetic moments and electric polarizabilities of free Tb, Ho, and Tm clusters. Journal of Applied Physics, 2010, 107, .	1.1	15
146	The effect of oxygen doping on the magnetism of Tb and Pr clusters. Journal of Applied Physics, 2010, 107, .	1.1	11
147	Coherence-mediated laser control of exciton and trion spins in CdTe/CdMgTe quantum wells studied by the magneto-optical Kerr effect. Journal of Physics Condensed Matter, 2010, 22, 115801.	0.7	3
148	Large ultrafast photoinduced magnetic anisotropy in a cobalt-substituted yttrium iron garnet. Physical Review B, 2010, 81, .	1.1	63
149	Interface magnetic and optical anisotropy of ultrathin Co films grown on a vicinal Si substrate. Physical Review B, 2009, 80, .	1.1	25
150	Spin-reorientation in the heterostructure Co/SmFeO ₃ . Journal of Physics Condensed Matter, 2009, 21, 446004.	0.7	11
151	Photoinduced magneto-optical Kerr effect and ultrafast spin dynamics in CdTe/CdMgTe quantum wells during excitation by shaped laser pulses. Physical Review B, 2009, 80, .	1.1	6
152	Electric-field induced modulation of the magneto-optical Kerr effect in a (Zn,Be,Mn)Se/GaAs spintronic device. Physical Review B, 2009, 80, .	1.1	4
153	Electromagnetic surface wave induced magnetic anisotropy. Journal Physics D: Applied Physics, 2009, 42, 105003.	1.3	2
154	Inertia-driven spin switching in antiferromagnets. Nature Physics, 2009, 5, 727-731.	6.5	306
155	Optical study of three-dimensional magnetic photonic crystals opal/Fe ₃ O ₄ . Journal of Magnetism and Magnetic Materials, 2009, 321, 840-842.	1.0	12
156	Ultrafast Path for Optical Magnetization Reversal via a Strongly Nonequilibrium State. Physical Review Letters, 2009, 103, 117201.	2.9	367
157	Linear and nonlinear magneto-optical response of ultrathin Co/Au/Mo and Co/Mo films grown on sapphire substrates. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1770-1773.	0.8	1
158	Impulsive excitation of coherent magnons and phonons by subpicosecond laser pulses in the weak ferromagnet FeBO_3 . Physical Review B, 2008, 78, .	1.1	92
159	Viral capsids as templates for the production of monodisperse Prussian blue nanoparticles. Chemical Communications, 2008, , 1542.	2.2	67
160	Controlling optical transmission through magneto-plasmonic crystals with an external magnetic field. New Journal of Physics, 2008, 10, 105012.	1.2	89
161	Ultrafast Opto-Magnetic Excitation of Magnetization Dynamics. IEEE Transactions on Magnetism, 2008, 44, 1905-1910.	1.2	1
162	Coherent control of surface plasmon polariton mediated optical transmission. Journal Physics D: Applied Physics, 2008, 41, 195102.	1.3	19

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163	Enhancement of optical and magneto-optical effects in three-dimensional opal/Fe ₃ O ₄ magnetic photonic crystals. Applied Physics Letters, 2008, 93, 072502.	1.5	21
164	Determination of liquid crystal orientation in holographic polymer dispersed liquid crystals by linear and nonlinear optics. Journal of Applied Physics, 2008, 104, 073115.	1.1	2
165	Femtosecond opto-magnetism. Proceedings of SPIE, 2008, , .	0.8	1
166	Observation of periodic oscillations in magnetization-induced second harmonic generation at the Mn ²⁺ /Co interface. Physical Review B, 2007, 75, .	1.1	25
167	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
168	Subpicosecond Magnetization Reversal across Ferrimagnetic Compensation Points. Physical Review Letters, 2007, 99, 217204.	2.9	189
169	Nonthermal optical control of magnetism and ultrafast laser-induced spin dynamics in solids. Journal of Physics Condensed Matter, 2007, 19, 043201.	0.7	62
170	Impulsive Generation of Coherent Magnons by Linearly Polarized Light in the Easy-Plane Antiferromagnet FeBO_3 . Physical Review Letters, 2007, 99, 167205.	2.9	126
171	Femtosecond opto-magnetism: ultrafast laser manipulation of magnetic materials. Laser and Photonics Reviews, 2007, 1, 275-287.	4.4	103
172	All-Optical Magnetic Recording with Circularly Polarized Light. Physical Review Letters, 2007, 99, 047601.	2.9	1,167
173	Nonthermal ultrafast optical control of the magnetization in garnet films. Physical Review B, 2006, 73, .	1.1	147
174	Direct Observation of Exchange Bias Related Uncompensated Spins at the CoO/Cu Interface. Physical Review Letters, 2006, 96, 067206.	2.9	48
175	Optical excitation of antiferromagnetic resonance in TmFeO ₃ . Physical Review B, 2006, 74, .	1.1	75
176	Ultrafast spin dynamics across compensation points in ferrimagnetic GdFeCo: The role of angular momentum compensation. Physical Review B, 2006, 73, .	1.1	260
177	Ultrafast all-optical control of the magnetization in magnetic dielectrics. Low Temperature Physics, 2006, 32, 748-767.	0.2	9
178	Velocity distribution of CO desorbing from NiO(100)/Ni(100) after picosecond UV laser irradiation. Chemical Physics Letters, 2006, 420, 110-114.	1.2	9
179	Voltage-controlled phase matching in quadrupole second-harmonic generation. Physical Review E, 2006, 74, 045601.	0.8	2
180	Frequency analysis of the magnetization dynamics in thin ellipsoidal magnetic elements. Physical Review B, 2006, 73, .	1.1	8

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181	Temperature dependence of magnetization-induced second harmonic generation at buried exchange-biased interfaces. <i>Physical Review B</i> , 2006, 73, .	1.1	4
182	Optical and magneto-optical studies of a multiferroic GaFeO ₃ with a high Curie temperature. <i>JETP Letters</i> , 2005, 81, 452-457.	0.4	32
183	Optical Properties of Thulium Orthoferrite TmFeO ₃ . <i>Physics of the Solid State</i> , 2005, 47, 2292.	0.2	33
184	Ultrafast non-thermal control of magnetization by instantaneous photomagnetic pulses. <i>Nature</i> , 2005, 435, 655-657.	13.7	979
185	Magnetic Field Alignment of Liquid Crystals for Fast Display Applications. <i>Advanced Materials</i> , 2005, 17, 610-614.	11.1	31
186	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
187	Structure determination of small vanadium clusters by density-functional theory in comparison with experimental far-infrared spectra. <i>Journal of Chemical Physics</i> , 2005, 122, 124302.	1.2	74
188	Observation of Giant Magnetic Linear Dichroism in (Ga,Mn)As. <i>Physical Review Letters</i> , 2005, 94, 227203.	2.9	51
189	Magnetization manipulation in (Ga,Mn)As by subpicosecond optical excitation. <i>Applied Physics Letters</i> , 2005, 86, 152506.	1.5	46
190	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
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