

# Alexey Kimel

## List of Publications by Year in descending order

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210  
papers

15,618  
citations

28274

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17105

122  
g-index

222  
all docs

222  
docs citations

222  
times ranked

8355  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast optical manipulation of magnetic order. <i>Reviews of Modern Physics</i> , 2010, 82, 2731-2784.	45.6	1,451
2	All-Optical Magnetic Recording with Circularly Polarized Light. <i>Physical Review Letters</i> , 2007, 99, 047601.	7.8	1,167
3	Ultrafast non-thermal control of magnetization by instantaneous photomagnetic pulses. <i>Nature</i> , 2005, 435, 655-657.	27.8	979
4	Transient ferromagnetic-like state mediating ultrafast reversal of antiferromagnetically coupled spins. <i>Nature</i> , 2011, 472, 205-208.	27.8	828
5	Interface-induced phenomena in magnetism. <i>Reviews of Modern Physics</i> , 2017, 89, .	45.6	672
6	Ultrafast heating as a sufficient stimulus for magnetization reversal in a ferrimagnet. <i>Nature Communications</i> , 2012, 3, 666.	12.8	588
7	Laser-induced ultrafast spin reorientation in the antiferromagnet TmFeO <sub>3</sub> . <i>Nature</i> , 2004, 429, 850-853.	27.8	568
8	Ultrafast Path for Optical Magnetization Reversal via a Strongly Nonequilibrium State. <i>Physical Review Letters</i> , 2009, 103, 117201.	7.8	367
9	Antiferromagnetic opto-spintronics. <i>Nature Physics</i> , 2018, 14, 229-241.	16.7	344
10	Inertia-driven spin switching in antiferromagnets. <i>Nature Physics</i> , 2009, 5, 727-731.	16.7	306
11	Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo. <i>Nature Materials</i> , 2013, 12, 293-298.	27.5	267
12	Ultrafast spin dynamics across compensation points in ferrimagnetic GdFeCo: The role of angular momentum compensation. <i>Physical Review B</i> , 2006, 73, .	3.2	260
13	Role of Magnetic Circular Dichroism in All-Optical Magnetic Recording. <i>Physical Review Letters</i> , 2012, 108, 127205.	7.8	253
14	Ultrafast nonthermal photo-magnetic recording in a transparent medium. <i>Nature</i> , 2017, 542, 71-74.	27.8	237
15	Ultrafast Spin Dynamics in Multisublattice Magnets. <i>Physical Review Letters</i> , 2012, 108, 057202.	7.8	217
16	An effective magnetic field from optically driven phonons. <i>Nature Physics</i> , 2017, 13, 132-136.	16.7	216
17	Nonlinear spin control by terahertz-driven anisotropy fields. <i>Nature Photonics</i> , 2016, 10, 715-718.	31.4	192
18	Femtosecond Photomagnetic Switching of Spins in Ferrimagnetic Garnet Films. <i>Physical Review Letters</i> , 2005, 95, 047402.	7.8	191

#	ARTICLE	IF	CITATIONS
19	Laser-induced magnetization dynamics and reversal in ferrimagnetic alloys. Reports on Progress in Physics, 2013, 76, 026501.	20.1	191
20	All-optical magnetization reversal by circularly polarized laser pulses: Experiment and multiscale modeling. Physical Review B, 2012, 85, .	3.2	190
21	Subpicosecond Magnetization Reversal across Ferrimagnetic Compensation Points. Physical Review Letters, 2007, 99, 217204.	7.8	189
22	Femtosecond control of electric currents in metallic ferromagnetic heterostructures. Nature Nanotechnology, 2016, 11, 455-458.	31.5	182
23	Writing magnetic memory with ultrashort light pulses. Nature Reviews Materials, 2019, 4, 189-200.	48.7	176
24	Ultrafast optical modification of exchange interactions in iron oxides. Nature Communications, 2015, 6, 8190.	12.8	164
25	Nonthermal ultrafast optical control of the magnetization in garnet films. Physical Review B, 2006, 73, .	3.2	147
26	Laser-induced ultrafast spin dynamics in ErFeO <sub>3</sub> . Physical Review B, 2011, 84, .	3.2	145
27	Temporal and spectral fingerprints of ultrafast all-coherent spin switching. Nature, 2019, 569, 383-387.	27.8	144
28	Crystallographically amorphous ferrimagnetic alloys: Comparing a localized atomistic spin model with experiments. Physical Review B, 2011, 84, .	3.2	130
29	Impulsive Generation of Coherent Magnons by Linearly Polarized Light in the Easy-Plane Antiferromagnet FeBO <sub>3</sub> . Physical Review Letters, 2007, 99, 167205.	7.8	126
30	Nanoscale Confinement of All-Optical Magnetic Switching in TbFeCo - Competition with Nanoscale Heterogeneity. Nano Letters, 2015, 15, 6862-6868.	9.1	126
31	Ultrafast control of magnetic interactions via light-driven phonons. Nature Materials, 2021, 20, 607-611.	27.5	112
32	Coherent Control of the Route of an Ultrafast Magnetic Phase Transition via Low-Amplitude Spin Precession. Physical Review Letters, 2012, 108, 157601.	7.8	107
33	Femtosecond optomagnetics: ultrafast laser manipulation of magnetic materials. Laser and Photonics Reviews, 2007, 1, 275-287.	8.7	103
34	Room-temperature ultrafast carrier and spin dynamics in GaAs probed by the photoinduced magneto-optical Kerr effect. Physical Review B, 2001, 63, .	3.2	95
35	Magnetoplasmonics and Femtosecond Optomagnetics at the Nanoscale. ACS Photonics, 2016, 3, 1385-1400.	6.6	93
36	Impulsive excitation of coherent magnons and phonons by subpicosecond laser pulses in the weak ferromagnet FeBO <sub>3</sub> . Physical Review B, 2008, 78, .	3.2	92

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37	Macrospin dynamics in antiferromagnets triggered by sub-20 femtosecond injection of nanomagnons. Nature Communications, 2016, 7, 10645.	12.8	91
38	Ultrafast Interaction of the Angular Momentum of Photons with Spins in the Metallic Amorphous Alloy GdFeCo. Physical Review Letters, 2007, 98, 207401.	7.8	88
39	Element-Specific Probing of Ultrafast Spin Dynamics in Multisublattice Magnets with Visible Light. Physical Review Letters, 2013, 110, 107205.	7.8	85
40	Ultrafast phononic switching of magnetization. Nature Physics, 2021, 17, 489-492.	16.7	85
41	Ultrafast Quenching of the Antiferromagnetic Order in FeBO <sub>3</sub> : Direct Optical Probing of the Phonon-Magnon Coupling. Physical Review Letters, 2002, 89, 287401.	7.8	82
42	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. Spin, 2015, 05, 1550004.	1.3	81
43	Optical excitation of antiferromagnetic resonance in TmFeO <sub>3</sub> . Physical Review B, 2006, 74, .	3.2	75
44	Nanoscale sub-100 picosecond all-optical magnetization switching in GdFeCo microstructures. Nature Communications, 2015, 6, 5839.	12.8	74
45	Terahertz emission spectroscopy of laser-induced spin dynamics in $\text{TmFeO}_3$ and $\text{ErFeO}_3$ . Physical Review B, 2014, 90, .	3.2	73
46	Single-shot all-optical switching of magnetization in Tb/Co multilayer-based electrodes. Scientific Reports, 2020, 10, 5211.	3.3	68
47	Large ultrafast photoinduced magnetic anisotropy in a cobalt-substituted yttrium iron garnet. Physical Review B, 2010, 81, .	3.2	63
48	Control of the Ultrafast Photoinduced Magnetization across the Morin Transition in $\text{DyFeO}_3$ . Physical Review Letters, 2016, 116, 097401.	7.8	63
49	Nonthermal optical control of magnetism and ultrafast laser-induced spin dynamics in solids. Journal of Physics Condensed Matter, 2007, 19, 043201.	1.8	62
50	Multiscale dynamics of helicity-dependent all-optical magnetization reversal in ferromagnetic Co/Pt multilayers. Physical Review B, 2017, 96, .	3.2	61
51	Coherent spin-wave transport in an antiferromagnet. Nature Physics, 2021, 17, 1001-1006.	16.7	61
52	Selection rules for all-optical magnetic recording in iron garnet. Nature Communications, 2019, 10, 612.	12.8	60
53	Plasmonic layer-selective all-optical switching of magnetization with nanometer resolution. Nature Communications, 2019, 10, 4786.	12.8	59
54	Picosecond Dynamics of the Photoinduced Spin Polarization in Epitaxial (Ga,Mn)As Films. Physical Review Letters, 2004, 92, 237203.	7.8	58

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55	Ultrafast Magnetism of a Ferrimagnet across the Spin-Flop Transition in High Magnetic Fields. <i>Physical Review Letters</i> , 2017, 118, 117203.	7.8	58
56	Terahertz Magnon-Polaritons in $\text{TmFeO}_3$ . <i>ACS Photonics</i> , 2018, 5, 1375-1380.	6.6	58
57	Ultrafast opto-magnetism. <i>Physics-Usppekhi</i> , 2015, 58, 969-980.	2.2	57
58	Demonstration of laser induced magnetization reversal in GdFeCo nanostructures. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	54
59	Laser Excitation of Lattice-Driven Anharmonic Magnetization Dynamics in Dielectric $\text{FeBO}_3$ . <i>Physical Review Letters</i> , 2014, 112, 147403.	7.8	54
60	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. <i>Nature Communications</i> , 2019, 10, 1756.	12.8	54
61	Observation of Giant Magnetic Linear Dichroism in $(\text{Ga,Mn})\text{As}$ . <i>Physical Review Letters</i> , 2005, 94, 227203.	7.8	51
62	Simultaneous measurements of terahertz emission and magneto-optical Kerr effect for resolving ultrafast laser-induced demagnetization dynamics. <i>Physical Review B</i> , 2015, 92, .	3.2	50
63	Fundamentals and perspectives of ultrafast photoferroic recording. <i>Physics Reports</i> , 2020, 852, 1-46.	25.6	50
64	Controlling coherent and incoherent spin dynamics by steering the photoinduced energy flow. <i>Physical Review B</i> , 2014, 89, .	3.2	49
65	Probing ultrafast photo-induced dynamics of the exchange energy in a Heisenberg antiferromagnet. <i>Nature Photonics</i> , 2015, 9, 506-510.	31.4	49
66	Laser induced spin precession in highly anisotropic granular L1 FePt. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	48
67	Magnetization manipulation in $(\text{Ga,Mn})\text{As}$ by subpicosecond optical excitation. <i>Applied Physics Letters</i> , 2005, 86, 152506.	3.3	46
68	Terahertz light-driven coupling of antiferromagnetic spins to lattice. <i>Science</i> , 2021, 374, 1608-1611.	12.6	45
69	Ultrafast dynamics of the photo-induced magneto-optical Kerr effect in CdTe at room temperature. <i>Physical Review B</i> , 2000, 62, R10610-R10613.	3.2	44
70	Terahertz modulation of the Faraday rotation by laser pulses via the optical Kerr effect. <i>Nature Photonics</i> , 2016, 10, 111-114.	31.4	43
71	Anomalously Damped Heat-Assisted Route for Precessional Magnetization Reversal in an Iron Garnet. <i>Physical Review Letters</i> , 2019, 122, 027202.	7.8	43
72	Highly efficient all-optical switching of magnetization in GdFeCo microstructures by interference-enhanced absorption of light. <i>Physical Review B</i> , 2012, 86, .	3.2	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, .	3.2	41
74	All-thermal switching of amorphous Gd-Fe alloys: Analysis of structural properties and magnetization dynamics. <i>Physical Review B</i> , 2015, 92, .	3.2	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.	7.8	40
76	Spin-photo-currents generated by femtosecond laser pulses in a ferrimagnetic GdFeCo/Pt bilayer. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	40
77	THz Electric Field-Induced Second Harmonic Generation in Inorganic Ferroelectric. <i>Scientific Reports</i> , 2017, 7, 687.	3.3	40
78	All-optical manipulation and probing of the dâ€f exchange interaction in EuTe. <i>Scientific Reports</i> , 2014, 4, 4368.	3.3	38
79	Ultrafast time-resolved magneto-optical imaging of all-optical switching in GdFeCo with femtosecond time-resolution and a 1/4m spatial-resolution. <i>Review of Scientific Instruments</i> , 2014, 85, 063702.	1.3	37
80	Laser-driven quantum magnonics and terahertz dynamics of the order parameter in antiferromagnets. <i>Physical Review B</i> , 2019, 100, .	3.2	37
81	THz emission from Co/Pt bilayers with varied roughness, crystal structure, and interface intermixing. <i>Physical Review Materials</i> , 2019, 3, .	2.4	37
82	Femtosecond Laser Excitation of Spin Resonances in Amorphous Ferrimagnetic $\langle \text{Gd} \rangle^{\text{X}}$ <i>Physical Review Letters</i> , 2011, 107, 117202.	7.8	36
83	Laser induced THz emission from femtosecond photocurrents in Co/ZnO/Pt and Co/Cu/Pt multilayers. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 134001.	2.8	36
84	Integration of Tb/Co multilayers within optically switchable perpendicular magnetic tunnel junctions. <i>AIP Advances</i> , 2019, 9, .	1.3	36
85	Dynamics of laser-induced spin reorientation in Co/SmFeO $\langle \text{Co} \rangle^{\text{3}}$ heterostructure. <i>Physical Review B</i> , 2013, 87, .	3.2	35
86	Optical Properties of Thulium Orthoferrite TmFeO <sub>3</sub> . <i>Physics of the Solid State</i> , 2005, 47, 2292.	0.6	33
87	Terahertz Optomagnetism: Nonlinear THz Excitation of GHz Spin Waves in Antiferromagnetic $\langle \text{FeBO} \rangle^{\text{3}}$ <i>Physical Review Letters</i> , 2019, 123, 157202.	7.8	33
88	Resonant Pumping of $\langle \text{d} \rangle^{\text{d}}$ Crystal Field Electronic Transitions as a Mechanism of Ultrafast Optical Control of the Exchange Interactions in Iron Oxides. <i>Physical Review Letters</i> , 2020, 125, 157201.	7.8	33
89	ions by Femtosecond Laser Pulses in $\langle \text{Er} \rangle^{\text{3}}$ <i>Physical Review Letters</i> , 2017, 118, 017205.	7.8	32
90	Laser-induced manipulation of magnetic anisotropy and magnetization precession in an ultrathin cobalt wedge. <i>Physical Review B</i> , 2012, 85, .	3.2	31

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91	Investigation of the femtosecond inverse Faraday effect using paramagnetic Physical Review B, 2010, 81, .	3.2	30
92	Time-resolved nonlinear optical spectroscopy of Mn <sup>3+</sup> ions in rare-earth hexagonal manganites RMnO <sub>3</sub> (R=Sc, Y, Er). Physical Review B, 2001, 64, .	3.2	29
93	Helicity and field dependent magnetization dynamics of ferromagnetic Co/Pt multilayers. Applied Physics Letters, 2016, 109, .	3.3	27
94	Terahertz magnetization dynamics induced by femtosecond resonant pumping of Physical Review B, 2015, 92, .	3.2	26
95	Dual-shot dynamics and ultimate frequency of all-optical magnetic recording on GdFeCo. Light: Science and Applications, 2021, 10, 8.	16.6	26
96	Nonlocal nonlinear magneto-optical response of a magnetoplasmonic crystal. Physical Review B, 2013, 88, .	3.2	25
97	Ultrafast all-optical response of a nematic liquid crystal. Optics Express, 2015, 23, 14010.	3.4	25
98	Three rules of design. Nature Materials, 2014, 13, 225-226.	27.5	24
99	Exchange-driven all-optical magnetic switching in compensated Physical Review Research, 2020, 2, .	3.6	24
100	Magneto-optical study of holmium iron garnet Ho <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> . Low Temperature Physics, 2012, 38, 863-869.	0.6	23
101	Magnetic and all-optical switching properties of amorphous Physical Review Materials, 2020, 4, .	2.4	23
102	Time-resolved nonlinear infrared spectroscopy of samarium ions in SmFeO Physical Review B, 2013, 87, .	3.2	22
103	Irreversible modification of magnetic properties of Pt/Co/Pt ultrathin films by femtosecond laser pulses. Journal of Applied Physics, 2014, 115, 053906.	2.5	22
104	Deterministic character of all-optical magnetization switching in GdFe-based ferrimagnetic alloys. Physical Review B, 2016, 93, .	3.2	22
105	Ultrafast kinetics of the antiferromagnetic-ferromagnetic phase transition in FeRh. Nature Communications, 2022, 13, .	12.8	22
106	Enhancement of optical and magneto-optical effects in three-dimensional opal/Fe <sub>3</sub> O <sub>4</sub> magnetic photonic crystals. Applied Physics Letters, 2008, 93, 072502.	3.3	21
107	Terahertz magneto-optics in the ferromagnetic semiconductor HgCdCr <sub>2</sub> Se <sub>4</sub> . Applied Physics Letters, 2015, 106, .	3.3	21





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127	Femtosecond photocurrents at the FeRh/Pt interface. Applied Physics Letters, 2020, 117, .	3.3	13
128	Optical study of three-dimensional magnetic photonic crystals opal/Fe <sub>3</sub> O <sub>4</sub> . Journal of Magnetism and Magnetic Materials, 2009, 321, 840-842.	2.3	12
129	Bias-controlled ultrafast demagnetization in magnetic tunnel junctions. Physical Review B, 2014, 89, .	3.2	12
130	Optical second harmonic generation and its photoinduced dynamics in ferroelectric semiconductor Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> . Physics of the Solid State, 2018, 60, 31-36.	0.6	12
131	Ultrafast demagnetization in a ferrimagnet under electromagnetic field funneling. Nanoscale, 2021, 13, 19367-19375.	5.6	12
132	Spin-reorientation in the heterostructure Co/SmFeO <sub>3</sub> . Journal of Physics Condensed Matter, 2009, 21, 446004.	1.8	11
133	Controlling spins with light. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3631-3645.	3.4	11
134	Laser-induced spin dynamics in ferromagnetic (In,Mn)As at magnetic fields up to 7 T. Physical Review B, 2014, 89, .	3.2	11
135	Effect of laser pulse propagation on ultrafast magnetization dynamics in a birefringent medium. Journal of Physics Condensed Matter, 2017, 29, 164004.	1.8	11
136	Magnetization dynamics of the compensated ferrimagnet $\text{Mn}_2\text{Mn}$ . Physical Review B, 2019, 100, .	3.2	11
137	Transient Second Harmonic Generation Induced by Single Cycle THz pulses in Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> /MgO. Scientific Reports, 2019, 9, 697.	3.3	11
138	Efficient All-Optical Helicity Dependent Switching of Spins in a Pt/Co/Pt Film by a Dual-Pulse Excitation. Frontiers in Nanotechnology, 2022, 4, .	4.8	11
139	Terahertz dynamics of spins and charges in CoFe/Al <sub>2</sub> O <sub>3</sub> multilayers. Physical Review B, 2015, 91, .	3.2	10
140	Femtosecond magneto-optics of EuO. Journal of Magnetism and Magnetic Materials, 2020, 502, 166479.	2.3	10
141	Excitation and detection of terahertz coherent spin waves in antiferromagnetic $\text{Fe}_3\text{O}_4$ . Physical Review B, 2021, 104, .	3.2	10
142	Direct Observation of Incommensurate-Commensurate Transition in Graphene-hBN Heterostructures via Optical Second Harmonic Generation. ACS Applied Materials & Interfaces, 2020, 12, 27758-27764.	8.0	10
143	Ultrafast all-optical control of the magnetization in magnetic dielectrics. Low Temperature Physics, 2006, 32, 748-767.	0.6	9
144	Laser-induced shift of the Morin point in antiferromagnetic DyFeO <sub>3</sub> . Optics Express, 2015, 23, 23978.	3.4	9

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145	Femtosecond single-shot imaging and control of a laser-induced first-order phase transition in HoFeO <sub>3</sub> . Journal of Physics Condensed Matter, 2017, 29, 224003.	1.8	9
146	Ultrafast demagnetization of ferromagnetic semiconductor InMnAs by dual terahertz and infrared excitations. Applied Physics Letters, 2020, 117, .	3.3	9
147	All-optical spin switching probability in [Tb/Co] multilayers. Scientific Reports, 2021, 11, 6576.	3.3	9
148	Nanostructuring of GdFeCo Thin Films for Laser Induced Magnetization Switching. Journal of the Magnetics Society of Japan, 2012, 36, 21-23.	0.9	8
149	Colossal magneto-optical modulation at terahertz frequencies by counterpropagating femtosecond laser pulses in Tb <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> . Optics Letters, 2016, 41, 5071.	3.3	8
150	Layer-sensitive magneto-optical spectroscopic study of magnetization dynamics in multilayered RE-TM structures. Applied Physics Letters, 2016, 109, .	3.3	8
151	Ultrafast polarization switching of (BaSr)TiO <sub>3</sub> thin film by a single-period terahertz pulse in a vicinity of phase transition. Ferroelectrics, 2018, 532, 199-207.	0.6	8
152	Laser-induced THz magnetism of antiferromagnetic CoF <sub>2</sub> . Journal of Physics Condensed Matter, 2022, 34, 225801.	1.8	8
153	Coherent Control of Angular Momentum Transfer in Resonant Two-Photon Light-Matter Interaction. Physical Review Letters, 2010, 104, 133001.	7.8	7
154	Direct mapping of plasmonic coupling between a triangular gold island pair. Applied Physics Letters, 2012, 100, .	3.3	7
155	Sub-picosecond exchange relaxation in the compensated ferrimagnet Mn <sub>2</sub> Ru x Ga. Journal of Physics Condensed Matter, 2021, 33, 135804.	1.8	7
156	Excitation of Coherent Spin Waves at Ultrafast Thermomagnetic Writing. IEEE Transactions on Magnetics, 2004, 40, 2543-2545.	2.1	6
157	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, .	3.2	6
158	Magnetization dynamics induced by femtosecond light pulses. Low Temperature Physics, 2015, 41, 682-688.	0.6	6
159	Polarization switching in ferroelectric thin film induced by a single-period terahertz pulse. MRS Advances, 2018, 3, 1901-1906.	0.9	6
160	Magneto-optical response to tunnel magnetoresistance in manganite films with a variant structure. Journal of Magnetism and Magnetic Materials, 2018, 459, 317-321.	2.3	6
161	Magneto-optical study of granular silicon oxide films with embedded CoNbTa ferromagnetic particles. Physics of the Solid State, 2003, 45, 283-286.	0.6	5
162	Picosecond dynamics of bleaching and spin splitting in InP revealed by the photoinduced magneto-optical Kerr effect near the spin-orbit split-off exciton transition. Physical Review B, 2004, 69, .	3.2	5

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163	Coherent control of excited state populations in rubidium using Rabi oscillations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 235002.	1.5	5
164	Controlling magnetic domain wall velocity by femtosecond laser pulses. Journal of Physics Condensed Matter, 2020, 33, 075802.	1.8	5
165	Spin dynamics driven by ultrafast laser-induced heating of iron garnet in high magnetic fields. Applied Physics Letters, 2022, 120, .	3.3	5
166	Electric-field induced modulation of the magneto-optical Kerr effect in a (Zn,Be,Mn)Se/GaAs spintronic device. Physical Review B, 2009, 80, .	3.2	4
167	Laser-induced magnetization dynamics in a cobalt/garnet heterostructure. Europhysics Letters, 2014, 105, 27006.	2.0	4
168	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.	2.4	4
169	Spectral tunability of laser-induced spin dynamics in the ferromagnetic semiconductor $\text{CdCr}_2\text{Se}_4$ . Physical Review B, 2018, 98, .	3.2	4
170	Faraday effect in solutions of fullerene C60. Journal of Optical Technology (A Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 T	0.4	3
171	Generation of second optical harmonic and magneto-optical Kerr effect in ferromagnet-semiconductor heterostructures $\text{CaF}_2/\text{MnAs}/\text{Si}(111)$ . Physics of the Solid State, 2000, 42, 909-917.	0.6	3
172	Effects of narrow-band pulse shaping on a resonant multilevel system. Physical Review A, 2008, 78, .	2.5	3
173	Coherence-mediated laser control of exciton and trion spins in $\text{CdTe}/\text{CdMgTe}$ quantum wells studied by the magneto-optical Kerr effect. Journal of Physics Condensed Matter, 2010, 22, 115801.	1.8	3
174	Ultrafast magnetism as seen by x-rays. Proceedings of SPIE, 2012, , .	0.8	3
175	Attempting nanolocalization of all-optical switching through nano-holes in an Al-mask. Proceedings of SPIE, 2014, , .	0.8	3
176	Ultrafast laser-induced dynamics of noncollinear spin structures in amorphous $\text{NdFeCo}$ and $\text{PrFeCo}$ . Physical Review B, 2015, 92, .	3.2	3
177	Publisher's Note: Multiscale dynamics of helicity-dependent all-optical magnetization reversal in ferromagnetic $\text{Co}/\text{Pt}$ multilayers [Phys. Rev. B <b>96</b> , 224421 (2017)]. Physical Review B, 2017, 96, .	3.2	3
178	Ultrafast Spin Dynamics in the Iron Borate Easy-Plane Weak Ferromagnet. Journal of Experimental and Theoretical Physics, 2020, 131, 130-138.	0.9	3
179	Far- and midinfrared excitation of large amplitude spin precession in the ferromagnetic semiconductor $\text{InMnAs}$ . Physical Review B, 2020, 101, .	3.2	3
180	Quantum theory of femtosecond optomagnetic effects for rare-earth ions in $\text{DyFeO}$ . Physical Review B, 2021, 103, .	1.2	3

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181	Growth of nanosized MnAs/Si(111) magnetoelectronic heterostructures and their magneto-optical study. <i>Physics of the Solid State</i> , 2001, 43, 1941-1947.	0.6	2
182	Ultrafast coherent control of angular momentum during a one-photon excitation. <i>Physical Review A</i> , 2011, 84, .	2.5	2
183	Femtosecond laser-induced optical anisotropy in a two-dimensional lattice of magnetic dots. <i>Physical Review B</i> , 2014, 89, .	3.2	2
184	Magneto-optical phenomena in MnAs/CaF <sub>2</sub> /Si(111) epitaxial films in a transverse magnetic field. <i>Physics of the Solid State</i> , 1999, 41, 97-102.	0.6	1
185	Ultrafast Optical Spectroscopy of Hexagonal Manganites R MnO <sub>3</sub> ( R = Y, Er, Sc). <i>Ferroelectrics</i> , 2002, 279, 135-146.	0.6	1
186	Ultrafast spin dynamics in InP probed by the photo-induced magneto-optical Kerr effect. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 1527-1531.	0.8	1
187	Ultrafast Opto-Magnetic Excitation of Magnetization Dynamics. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 1905-1910.	2.1	1
188	Femtosecond opto-magnetism. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
189	Ultrafast probes for ultrasmall magnets. <i>Physics Magazine</i> , 2010, 3, .	0.1	1
190	Static and time-resolved mid-infrared spectroscopy of Hg <sub>0.95</sub> Cd <sub>0.05</sub> Cr <sub>2</sub> Se <sub>4</sub> spinel. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 325502.	1.8	1
191	Terahertz modulation of the Cotton-Mouton effect. <i>Journal of Physics: Conference Series</i> , 2019, 1389, 012040.	0.4	1
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