

Alexey Kimel

List of Publications by Year in descending order

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210
papers

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citations

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222
all docs

222
docs citations

222
times ranked

8355
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin dynamics driven by ultrafast laser-induced heating of iron garnet in high magnetic fields. Applied Physics Letters, 2022, 120, .	3.3	5
2	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
3	Laser-induced THz magnetism of antiferromagnetic CoF ₂ . Journal of Physics Condensed Matter, 2022, 34, 225801.	1.8	8
4	Ultrafast kinetics of the antiferromagnetic-ferromagnetic phase transition in FeRh. Nature Communications, 2022, 13, .	12.8	22
5	Ultrafast phononic switching of magnetization. Nature Physics, 2021, 17, 489-492.	16.7	85
6	Quantum theory of femtosecond optomagnetic effects for rare-earth ions in DyFeO_3 . Physical Review B, 2021, 103, .	12.2	3
7	Ultrafast demagnetization in a ferrimagnet under electromagnetic field funneling. Nanoscale, 2021, 13, 19367-19375.	5.6	12
8	Sub-picosecond exchange-relaxation in the compensated ferrimagnet Mn ₂ Ru x Ga. Journal of Physics Condensed Matter, 2021, 33, 135804.	1.8	7
9	Dual-shot dynamics and ultimate frequency of all-optical magnetic recording on GdFeCo. Light: Science and Applications, 2021, 10, 8.	16.6	26
10	Ultrafast control of magnetic interactions via light-driven phonons. Nature Materials, 2021, 20, 607-611.	27.5	112
11	All-optical spin switching probability in [Tb/Co] multilayers. Scientific Reports, 2021, 11, 6576.	3.3	9
12	Magnetic order of DyFeO_3 and FeO moments in antiferromagnetic DyFeO_3 . Physical Review B, 2021, 103, .	3.2	15
13	Coherent spin-wave transport in an antiferromagnet. Nature Physics, 2021, 17, 1001-1006.	16.7	61
14	Excitation and detection of terahertz coherent spin waves in antiferromagnetic Fe_3O_4 . Physical Review B, 2021, 104, .	3.2	10
15	THz-Scale Field-Induced Spin Dynamics in Ferrimagnetic Iron Garnets. Physical Review Letters, 2021, 127, 037203.	7.8	14
16	Terahertz light-driven coupling of antiferromagnetic spins to lattice. Science, 2021, 374, 1608-1611.	12.6	45
17	Domain Wall Deceleration in a Ferrite Garnet Film by Femtosecond Laser Pulses. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2021, 76, 447-454.	0.4	0
18	Similarity in ruthenium damage induced by photons with different energies: From visible light to hard X-rays. Applied Surface Science, 2020, 501, 143973.	6.1	15

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19	Ultrafast spin dynamics in ferrimagnets with compensation point. Journal of Physics Condensed Matter, 2020, 32, 01LT01.	1.8	16
20	Resonant Pumping of d Crystal Field Electronic Transitions as a Mechanism of Ultrafast Optical Control of the Exchange Interactions in Iron Oxides. Physical Review Letters, 2020, 125, 157201.	7.8	33
21	Ultrafast Spin Dynamics in the Iron Borate Easy-Plane Weak Ferromagnet. Journal of Experimental and Theoretical Physics, 2020, 131, 130-138.	0.9	3
22	Laser stimulated THz emission from Pt/CoO/FeCoB. Applied Physics Letters, 2020, 117, .	3.3	16
23	Ultrafast demagnetization of ferromagnetic semiconductor InMnAs by dual terahertz and infrared excitations. Applied Physics Letters, 2020, 117, .	3.3	9
24	Femtosecond photocurrents at the FeRh/Pt interface. Applied Physics Letters, 2020, 117, .	3.3	13
25	Fundamentals and perspectives of ultrafast photoferroic recording. Physics Reports, 2020, 852, 1-46.	25.6	50
26	Far- and midinfrared excitation of large amplitude spin precession in the ferromagnetic semiconductor InMnAs. Physical Review B, 2020, 101, .	3.2	3
27	Femtosecond magneto-optics of EuO. Journal of Magnetism and Magnetic Materials, 2020, 502, 166479.	2.3	10
28	Single-shot all-optical switching of magnetization in Tb/Co multilayer-based electrodes. Scientific Reports, 2020, 10, 5211.	3.3	68
29	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
30	Magnetic and all-optical switching properties of amorphous $Tb_{24}Mg_{76}$. Physical Review Materials, 2020, 4, .	2.4	23
31	Exchange-driven all-optical magnetic switching in compensated $3d$ ferrimagnets. Physical Review Research, 2020, 2, .	4.6	24
32	Controlling magnetic domain wall velocity by femtosecond laser pulses. Journal of Physics Condensed Matter, 2020, 33, 075802.	1.8	5
33	Minimally dissipative all-coherent spin switching at terahertz clock rates. , 2020, , .		0
34	Laser-driven quantum magnonics and terahertz dynamics of the order parameter in antiferromagnets. Physical Review B, 2019, 100, .	3.2	37
35	Terahertz Optomagnetism: Nonlinear THz Excitation of GHz Spin Waves in Antiferromagnetic $FeBO_3$. Physical Review Letters, 2019, 123, 157202.	7.8	33
36	Plasmonic layer-selective all-optical switching of magnetization with nanometer resolution. Nature Communications, 2019, 10, 4786.	12.8	59

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37	Magnetization dynamics of the compensated ferrimagnet Mn^{2+}/Mn^{3+} . Physical Review B, 2019, 100, .	11.1	111
38	Phase diagram of rare-earth transition-metal alloys in the vicinity of the compensation point. Physical Review B, 2019, 100, .	3.2	18
39	Writing magnetic memory with ultrashort light pulses. Nature Reviews Materials, 2019, 4, 189-200.	48.7	176
40	Supervised learning of an opto-magnetic neural network with ultrashort laser pulses. Applied Physics Letters, 2019, 114, 192407.	3.3	15
41	Temporal and spectral fingerprints of ultrafast all-coherent spin switching. Nature, 2019, 569, 383-387.	27.8	144
42	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. Nature Communications, 2019, 10, 1756.	12.8	54
43	Selection rules for all-optical magnetic recording in iron garnet. Nature Communications, 2019, 10, 612.	12.8	60
44	Transient Second Harmonic Generation Induced by Single Cycle THz pulses in Ba _{0.8} Sr _{0.2} TiO ₃ /MgO. Scientific Reports, 2019, 9, 697.	3.3	11
45	Terahertz modulation of the Cotton-Mouton effect. Journal of Physics: Conference Series, 2019, 1389, 012040.	0.4	1
46	Integration of Tb/Co multilayers within optically switchable perpendicular magnetic tunnel junctions. AIP Advances, 2019, 9, .	1.3	36
47	Anomalously Damped Heat-Assisted Route for Precessional Magnetization Reversal in an Iron Garnet. Physical Review Letters, 2019, 122, 027202.	7.8	43
48	THz emission from Co/Pt bilayers with varied roughness, crystal structure, and interface intermixing. Physical Review Materials, 2019, 3, .	2.4	37
49	Terahertz subcycle control of charge, spin & pseudospin. , 2019, , .		0
50	Subcycle observation of terahertz-driven minimally dissipative spin switching. , 2019, , .		0
51	Spin preservation during THz orbital pumping of shallow donors in silicon. Journal of Physics Condensed Matter, 2019, 31, 435401.	1.8	0
52	Optical second harmonic generation and its photoinduced dynamics in ferroelectric semiconductor Sn ₂ P ₂ S ₆ . Physics of the Solid State, 2018, 60, 31-36.	0.6	12
53	Polarization switching in ferroelectric thin film induced by a single-period terahertz pulse. MRS Advances, 2018, 3, 1901-1906.	0.9	6
54	Antiferromagnetic opto-spintronics. Nature Physics, 2018, 14, 229-241.	16.7	344

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55	Terahertz Magnon-Polaritons in TmFeO_3 . ACS Photonics, 2018, 5, 1375-1380.	6.6	58
56	Laser induced THz emission from femtosecond photocurrents in Co/ZnO/Pt and Co/Cu/Pt multilayers. Journal Physics D: Applied Physics, 2018, 51, 134001.	2.8	36
57	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
58	Ultrafast polarization switching of $(\text{BaSr})\text{TiO}_3$ thin film by a single-period terahertz pulse in a vicinity of phase transition. Ferroelectrics, 2018, 532, 199-207.	0.6	8
59	Spectral tunability of laser-induced spin dynamics in the ferromagnetic semiconductor CdCr_2Se_4 . Physical Review B, 2018, 98, .	3.2	4
60	All-optical helicity-dependent magnetic switching by first-order azimuthally polarized vortex beams. Applied Physics Letters, 2018, 113, 171108.	3.3	17
61	Jean-Yves Bigot, a pioneer of ultrafast magnetism, passed away on May 2 2018. Journal of Magnetism and Magnetic Materials, 2018, 467, A1.	2.3	0
62	Towards massively parallelized all-optical magnetic recording. Journal of Applied Physics, 2018, 123, .	2.5	19
63	Ultrafast nonthermal photo-magnetic recording in a transparent medium. Nature, 2017, 542, 71-74.	27.8	237
64	Selective Excitation of Terahertz Magnetic and Electric Dipoles in $\text{Er}_3\text{Fe}_5\text{O}_{12}$ Ions by Femtosecond Laser Pulses in ErFeO_3 . Physical Review Letters, 2017, 118, 017205.	7.8	32
65	Spin-photo-currents generated by femtosecond laser pulses in a ferrimagnetic GdFeCo/Pt bilayer. Applied Physics Letters, 2017, 110, .	3.3	40
66	Effect of laser pulse propagation on ultrafast magnetization dynamics in a birefringent medium. Journal of Physics Condensed Matter, 2017, 29, 164004.	1.8	11
67	THz Electric Field-Induced Second Harmonic Generation in Inorganic Ferroelectric. Scientific Reports, 2017, 7, 687.	3.3	40
68	Ultrafast Magnetism of a Ferrimagnet across the Spin-Flop Transition in High Magnetic Fields. Physical Review Letters, 2017, 118, 117203.	7.8	58
69	Sub-100-ps dynamics of the anomalous Hall effect at terahertz frequencies. Physical Review B, 2017, 95, .	3.2	13
70	Multiscale dynamics of helicity-dependent all-optical magnetization reversal in ferromagnetic Co/Pt multilayers. Physical Review B, 2017, 96, .	3.2	61
71	Static and time-resolved mid-infrared spectroscopy of $\text{Hg}_{0.95}\text{Cd}_{0.05}\text{Cr}_2\text{Se}_4$ spinel. Journal of Physics Condensed Matter, 2017, 29, 325502.	1.8	1
72	Interface-induced phenomena in magnetism. Reviews of Modern Physics, 2017, 89, .	45.6	672

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73	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.	1.8	9
74	An effective magnetic field from optically driven phonons. Nature Physics, 2017, 13, 132-136.	16.7	216
75	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, .	3.2	3
76	Colossal magneto-optical modulation at terahertz frequencies by counterpropagating femtosecond laser pulses in Tb ₃ Ga ₅ O ₁₂ . Optics Letters, 2016, 41, 5071.	3.3	8
77	Helicity and field dependent magnetization dynamics of ferromagnetic Co/Pt multilayers. Applied Physics Letters, 2016, 109, .	3.3	27
78	Layer-sensitive magneto-optical spectroscopic study of magnetization dynamics in multilayered RE-TM structures. Applied Physics Letters, 2016, 109, .	3.3	8
79	Optical second harmonic generation induced by picosecond terahertz pulses in centrosymmetric antiferromagnet NiO. JETP Letters, 2016, 104, 441-448.	1.4	13
80	Nonlinear spin control by terahertz-driven anisotropy fields. Nature Photonics, 2016, 10, 715-718.	31.4	192
81	Deterministic character of all-optical magnetization switching in GdFe-based ferrimagnetic alloys. Physical Review B, 2016, 93, .	3.2	22
82	Control of the Ultrafast Photoinduced Magnetization across the Morin Transition in DyFeO_3 . Physical Review Letters, 2016, 116, 097401.	7.8	63
83	Macrospin dynamics in antiferromagnets triggered by sub-20 femtosecond injection of nanomagnons. Nature Communications, 2016, 7, 10645.	12.8	91
84	Magnetoplasmonics and Femtosecond Optomagnetism at the Nanoscale. ACS Photonics, 2016, 3, 1385-1400.	6.6	93
85	Fast and ultrafast all-optical control of light in nematic and smectic-A liquid crystals. , 2016, , .		0
86	Femtosecond control of electric currents in metallic ferromagnetic heterostructures. Nature Nanotechnology, 2016, 11, 455-458.	31.5	182
87	Terahertz modulation of the Faraday rotation by laser pulses via the optical Kerr effect. Nature Photonics, 2016, 10, 111-114.	31.4	43
88	Nonlinear Terahertz-Spin Interaction in Thulium Orthoferrite. , 2016, , .		0
89	Excitation and coherent control of antiferromagnetic spin waves with sub-20-fs optical pulses. , 2016, , .		0
90	All-thermal switching of amorphous Gd-Fe alloys: Analysis of structural properties and magnetization dynamics. Physical Review B, 2015, 92, .	3.2	41

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91	Terahertz magnetization dynamics induced by femtosecond resonant pumping of Dy in the multisublattice antiferromagnet DyFeO_3 . Physical Review B, 2015, 92, .	3.2	26
92	Ultrafast laser-induced dynamics of noncollinear spin structures in amorphous NdFeCo and PrFeCo. Physical Review B, 2015, 92, .	3.2	3
93	Simultaneous measurements of terahertz emission and magneto-optical Kerr effect for resolving ultrafast laser-induced demagnetization dynamics. Physical Review B, 2015, 92, .	3.2	50
94	Magnetization dynamics induced by femtosecond light pulses. Low Temperature Physics, 2015, 41, 682-688.	0.6	6
95	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
96	Influence of the Magnetization Compensation Point on the All-Optical Magnetization Switching. Springer Proceedings in Physics, 2015, , 30-31.	0.2	0
97	Terahertz Response and Ultrafast Laser-Induced Dynamics of Spins and Charges in $\text{CoFe/Al}_2\text{O}_3$ Multilayers. Springer Proceedings in Physics, 2015, , 261-263.	0.2	0
98	Ultrafast all-optical response of a nematic liquid crystal. Optics Express, 2015, 23, 14010.	3.4	25
99	Photoinduced dynamics and femtosecond excitation of phonon modes in ferroelectric semiconductor $\text{Sn}_2\text{P}_2\text{S}_6$. JETP Letters, 2015, 102, 372-377.	1.4	18
100	Ultrafast opto-magnetism. Physics-Usppekhi, 2015, 58, 969-980.	2.2	57
101	Nanoscale sub-100 picosecond all-optical magnetization switching in GdFeCo microstructures. Nature Communications, 2015, 6, 5839.	12.8	74
102	Terahertz dynamics of spins and charges in $\text{CoFe/Al}_2\text{O}_3$ multilayers. Physical Review B, 2015, 91, .	3.2	10
103	Probing ultrafast photo-induced dynamics of the exchange energy in a Heisenberg antiferromagnet. Nature Photonics, 2015, 9, 506-510.	31.4	49
104	Terahertz magneto-optics in the ferromagnetic semiconductor $\text{HgCdCr}_2\text{Se}_4$. Applied Physics Letters, 2015, 106, .	3.3	21
105	Laser-induced shift of the Morin point in antiferromagnetic DyFeO_3 . Optics Express, 2015, 23, 23978.	3.4	9
106	Nanoscale Confinement of All-Optical Magnetic Switching in TbFeCo - Competition with Nanoscale Heterogeneity. Nano Letters, 2015, 15, 6862-6868.	9.1	126
107	Ultrafast optical modification of exchange interactions in iron oxides. Nature Communications, 2015, 6, 8190.	12.8	164
108	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. Spin, 2015, 05, 1550004.	1.3	81

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109	Engineering Ultrafast Magnetism. Springer Proceedings in Physics, 2015, , 297-299.	0.2	1
110	Ultrafast Opto-magnetism in KNiF3. Springer Proceedings in Physics, 2015, , 221-223.	0.2	0
111	Laser-Induced Spin Dynamics in Ferromagnetic (In,Mn)As at Magnetic Fields up to 7 T. Springer Proceedings in Physics, 2015, , 19-22.	0.2	0
112	Improving the Efficiency of Ultrafast Optical Control of Magnetism in GdFeCo Continuous Films and Submicron Structures. Springer Proceedings in Physics, 2015, , 267-269.	0.2	0
113	Controlling coherent energy flow between collective THz excitations in condensed matter. , 2014, , .		0
114	Ultrafast time-resolved magneto-optical imaging of all-optical switching in GdFeCo with femtosecond time-resolution and a $\frac{1}{4}$ μ m spatial-resolution. Review of Scientific Instruments, 2014, 85, 063702.	1.3	37
115	Laser-induced spin dynamics in ferromagnetic (In,Mn)As at magnetic fields up to 7 T. Physical Review B, 2014, 89, .	3.2	11
116	Controlling coherent and incoherent spin dynamics by steering the photoinduced energy flow. Physical Review B, 2014, 89, .	3.2	49
117	Terahertz emission spectroscopy of laser-induced spin dynamics in TmFeO_3 and ErFeO_3 . Physical Review B, 2014, 90, .	3.2	13
118	Attempting nanolocalization of all-optical switching through nano-holes in an Al-mask. Proceedings of SPIE, 2014, , .	0.8	3
119	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
120	Three rules of design. Nature Materials, 2014, 13, 225-226.	27.5	24
121	Laser-induced magnetization dynamics in a cobalt/garnet heterostructure. Europhysics Letters, 2014, 105, 27006.	2.0	4
122	Laser Excitation of Lattice-Driven Anharmonic Magnetization Dynamics in Dielectric FeBO_3 . Physical Review Letters, 2014, 112, 147403.	7.8	54
123	Femtosecond laser-induced optical anisotropy in a two-dimensional lattice of magnetic dots. Physical Review B, 2014, 89, .	3.2	2
124	Bias-controlled ultrafast demagnetization in magnetic tunnel junctions. Physical Review B, 2014, 89, .	3.2	12
125	Laser induced spin precession in highly anisotropic granular L1 FePt. Applied Physics Letters, 2014, 104, .	3.3	48
126	All-optical manipulation and probing of the d σ exchange interaction in EuTe. Scientific Reports, 2014, 4, 4368.	3.3	38

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127	Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo. Nature Materials, 2013, 12, 293-298.	27.5	267
128	Nonlocal nonlinear magneto-optical response of a magnetoplasmonic crystal. Physical Review B, 2013, 88, .	3.2	25
129	Time-resolved nonlinear infrared spectroscopy of samarium ions in SmFeO ₃ . Physical Review B, 2013, 87, .	3.2	22
130	The Role of Angular Momentum in Ultrafast Magnetization Dynamics. Topics in Applied Physics, 2013, , 59-70.	0.8	0
131	Element-Specific Probing of Ultrafast Spin Dynamics in Multisublattice Magnets with Visible Light. Physical Review Letters, 2013, 110, 107205.	7.8	85
132	Laser-induced magnetization dynamics and reversal in ferrimagnetic alloys. Reports on Progress in Physics, 2013, 76, 026501.	20.1	191
133	Dynamics of laser-induced spin reorientation in Co/SmFeO ₃ heterostructure. Physical Review B, 2013, 87, .	3.2	35
134	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.	1.5	17
135	Role of the inter-sublattice exchange coupling in short-laser-pulse-induced demagnetization dynamics of GdCo and GdCoFe alloys. Physical Review B, 2013, 87, .	3.2	41
136	Direct mapping of plasmonic coupling between a triangular gold island pair. Applied Physics Letters, 2012, 100, .	3.3	7
137	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
138	Optical energy optimization at the nanoscale by near-field interference. Applied Physics Letters, 2012, 101, .	3.3	19
139	All-optical magnetization reversal by circularly polarized laser pulses: Experiment and multiscale modeling. Physical Review B, 2012, 85, .	3.2	190
140	Ultrafast magnetism as seen by x-rays. Proceedings of SPIE, 2012, , .	0.8	3
141	Highly efficient all-optical switching of magnetization in GdFeCo microstructures by interference-enhanced absorption of light. Physical Review B, 2012, 86, .	3.2	41
142	Tunable magnetic properties in ultrathin Co/garnet heterostructures. Journal of Applied Physics, 2012, 111, 023913.	2.5	15
143	Role of Magnetic Circular Dichroism in All-Optical Magnetic Recording. Physical Review Letters, 2012, 108, 127205.	7.8	253
144	Magneto-optical study of holmium iron garnet Ho ₃ Fe ₅ O ₁₂ . Low Temperature Physics, 2012, 38, 863-869.	0.6	23

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145	Ultrafast laser-induced demagnetization in Gd _x Fe _{1-x} . Physical Review B, 2012, 85, .	3.2	30
146	Laser-induced manipulation of magnetic anisotropy and magnetization precession in an ultrathin cobalt wedge. Physical Review B, 2012, 85, .	3.2	31
147	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
148	Ultrafast Spin Dynamics in Multisublattice Magnets. Physical Review Letters, 2012, 108, 057202.	7.8	217
149	Nanostructuring of GdFeCo Thin Films for Laser Induced Magnetization Switching. Journal of the Magnetics Society of Japan, 2012, 36, 21-23.	0.9	8
150	Ultrafast heating as a sufficient stimulus for magnetization reversal in a ferrimagnet. Nature Communications, 2012, 3, 666.	12.8	588
151	Demonstration of laser induced magnetization reversal in GdFeCo nanostructures. Applied Physics Letters, 2012, 101, .	3.3	54
152	Laser-induced ultrafast spin dynamics in ErFeO ₃ . Physical Review B, 2011, 84, .	3.2	145
153	Crystallographically amorphous ferrimagnetic alloys: Comparing a localized atomistic spin model with experiments. Physical Review B, 2011, 84, .	3.2	130
154	Transient ferromagnetic-like state mediating ultrafast reversal of antiferromagnetically coupled spins. Nature, 2011, 472, 205-208.	27.8	828
155	Femtosecond Laser Excitation of Spin Resonances in Amorphous Ferrimagnetic Gd _{1-x} Fe _x . Physical Review Letters, 2011, 107, 117202.	7.8	36
156	Ultrafast coherent control of angular momentum during a one-photon excitation. Physical Review A, 2011, 84, .	2.5	2
157	Controlling spins with light. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3631-3645.	3.4	11
158	Ultrafast probes for ultrasmall magnets. Physics Magazine, 2010, 3, .	0.1	1
159	Ultrafast optical manipulation of magnetic order. Reviews of Modern Physics, 2010, 82, 2731-2784.	45.6	1,451
160	Apertureless SNOM study on gold nanoparticles: Experiments and simulations. Physica Status Solidi (B): Basic Research, 2010, 247, 2047-2050.	1.5	17
161	Optical Excitation of a Forbidden Magnetic Resonance Mode in a Doped Lutetium-Iron-Garnet Film via the Inverse Faraday Effect. Physical Review Letters, 2010, 105, 107402.	7.8	40
162	Single picojoule pulse switching of magnetization in ferromagnetic (Ga,Mn)As. Applied Physics Letters, 2010, 97, 232503.	3.3	15

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163	Influence of laser pulse shaping on the ultrafast dynamics in antiferromagnetic NiO. Physical Review B, 2010, 82, .	3.2	13
164	Coherent Control of Angular Momentum Transfer in Resonant Two-Photon Light-Matter Interaction. Physical Review Letters, 2010, 104, 133001.	7.8	7
165	Investigation of the femtosecond inverse Faraday effect using paramagnetic Dy . Physical Review B, 2010, 81, .	3.2	29
166	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.	1.8	3
167	Large ultrafast photoinduced magnetic anisotropy in a cobalt-substituted yttrium iron garnet. Physical Review B, 2010, 81, .	3.2	63
168	Spin-reorientation in the heterostructure $Co/SmFeO_3$. Journal of Physics Condensed Matter, 2009, 21, 446004.	1.8	11
169	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
170	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
171	Inertia-driven spin switching in antiferromagnets. Nature Physics, 2009, 5, 727-731.	16.7	306
172	Optical study of three-dimensional magnetic photonic crystals opal/Fe ₃ O ₄ . Journal of Magnetism and Magnetic Materials, 2009, 321, 840-842.	2.3	12
173	Ultrafast Path for Optical Magnetization Reversal via a Strongly Nonequilibrium State. Physical Review Letters, 2009, 103, 117201.	7.8	367
174	Impulsive excitation of coherent magnons and phonons by subpicosecond laser pulses in the weak ferromagnet $FeBO_3$. Physical Review B, 2008, 78, .	3.2	92
175	Ultrafast Opto-Magnetic Excitation of Magnetization Dynamics. IEEE Transactions on Magnetics, 2008, 44, 1905-1910.	2.1	1
176	Enhancement of optical and magneto-optical effects in three-dimensional opal/Fe ₃ O ₄ magnetic photonic crystals. Applied Physics Letters, 2008, 93, 072502.	3.3	21
177	Effects of narrow-band pulse shaping on a resonant multilevel system. Physical Review A, 2008, 78, .	2.5	3
178	Femtosecond opto-magnetism. Proceedings of SPIE, 2008, , .	0.8	1
179	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
180	Subpicosecond Magnetization Reversal across Ferrimagnetic Compensation Points. Physical Review Letters, 2007, 99, 217204.	7.8	189

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181	Nonthermal optical control of magnetism and ultrafast laser-induced spin dynamics in solids. Journal of Physics Condensed Matter, 2007, 19, 043201.	1.8	62
182	Impulsive Generation of Coherent Magnons by Linearly Polarized Light in the Easy-Plane Antiferromagnet FeBO_3 . Physical Review Letters, 2007, 99, 167205.	7.8	126
183	Femtosecond opto-magnetism: ultrafast laser manipulation of magnetic materials. Laser and Photonics Reviews, 2007, 1, 275-287.	8.7	103
184	All-Optical Magnetic Recording with Circularly Polarized Light. Physical Review Letters, 2007, 99, 047601.	7.8	1,167
185	Nonthermal ultrafast optical control of the magnetization in garnet films. Physical Review B, 2006, 73, .	3.2	147
186	Optical excitation of antiferromagnetic resonance in TmFeO_3 . Physical Review B, 2006, 74, .	3.2	75
187	Ultrafast spin dynamics across compensation points in ferrimagnetic GdFeCo : The role of angular momentum compensation. Physical Review B, 2006, 73, .	3.2	260
188	Ultrafast all-optical control of the magnetization in magnetic dielectrics. Low Temperature Physics, 2006, 32, 748-767.	0.6	9
189	Optical Properties of Thulium Orthoferrite TmFeO_3 . Physics of the Solid State, 2005, 47, 2292.	0.6	33
190	Ultrafast non-thermal control of magnetization by instantaneous photomagnetic pulses. Nature, 2005, 435, 655-657.	27.8	979
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