

Theo Rasing

List of Publications by Year in descending order

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487
papers

22,842
citations

10389

72
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11607

135
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all docs

505
docs citations

505
times ranked

13340
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	Ultrafast heating as a sufficient stimulus for magnetization reversal in a ferrimagnet. <i>Nature Communications</i> , 2012, 3, 666.	12.8	588
6	Laser-induced ultrafast spin reorientation in the antiferromagnet TmFeO ₃ . <i>Nature</i> , 2004, 429, 850-853.	27.8	568
7	Ultrafast precessional magnetization reversal by picosecond magnetic field pulse shaping. <i>Nature</i> , 2002, 418, 509-512.	27.8	428
8	Ultrafast Path for Optical Magnetization Reversal via a Strongly Nonequilibrium State. <i>Physical Review Letters</i> , 2009, 103, 117201.	7.8	367
9	Magnetic photonic crystals. <i>Journal Physics D: Applied Physics</i> , 2003, 36, R277-R287.	2.8	334
10	Macroscopic Hierarchical Surface Patterning of Porphyrin Trimers via Self-Assembly and Dewetting. <i>Science</i> , 2006, 314, 1433-1436.	12.6	311
11	Inertia-driven spin switching in antiferromagnets. <i>Nature Physics</i> , 2009, 5, 727-731.	16.7	306
12	Local-field enhancement on rough surfaces of metals, semimetals, and semiconductors with the use of optical second-harmonic generation. <i>Physical Review B</i> , 1984, 30, 519-526.	3.2	284
13	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
14	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
15	Laser-Induced Magnetic Nanostructures with Tunable Topological Properties. <i>Physical Review Letters</i> , 2013, 110, 177205.	7.8	256
16	Role of Magnetic Circular Dichroism in All-Optical Magnetic Recording. <i>Physical Review Letters</i> , 2012, 108, 127205.	7.8	253
17	Ultrafast Spin Dynamics in Multisublattice Magnets. <i>Physical Review Letters</i> , 2012, 108, 057202.	7.8	217
18	Chiral Lead Halide Perovskite Nanowires for Second-Order Nonlinear Optics. <i>Nano Letters</i> , 2018, 18, 5411-5417.	9.1	212

#	ARTICLE	IF	CITATIONS
19	Complete chiral symmetry breaking of an amino acid derivative directed by circularly polarized light. Nature Chemistry, 2009, 1, 729-732.	13.6	210
20	Halide Perovskites for Nonlinear Optics. Advanced Materials, 2020, 32, e1806736.	21.0	210
21	Femtosecond Photomagnetic Switching of Spins in Ferrimagnetic Garnet Films. Physical Review Letters, 2005, 95, 047402.	7.8	191
22	Charge transfer transitions in multiferroic BiFeO_3 related ferrite insulators. Physical Review B, 2009, 79, .	3.2	191
23	Laser-induced magnetization dynamics and reversal in ferrimagnetic alloys. Reports on Progress in Physics, 2013, 76, 026501.	20.1	191
24	All-optical magnetization reversal by circularly polarized laser pulses: Experiment and multiscale modeling. Physical Review B, 2012, 85, .	3.2	190
25	Subpicosecond Magnetization Reversal across Ferrimagnetic Compensation Points. Physical Review Letters, 2007, 99, 217204.	7.8	189
26	Femtosecond control of electric currents in metallic ferromagnetic heterostructures. Nature Nanotechnology, 2016, 11, 455-458.	31.5	182
27	Surface Diffusion of Co on Ni(111) Studied by Diffraction of Optical Second-harmonic Generation off a Monolayer Grating. Physical Review Letters, 1988, 61, 2883-2885.	7.8	165
28	Ultrafast optical modification of exchange interactions in iron oxides. Nature Communications, 2015, 6, 8190.	12.8	164
29	Observation of molecular reorientation at a two-dimensional-liquid phase transition. Physical Review Letters, 1985, 55, 2903-2906.	7.8	151
30	Nonthermal ultrafast optical control of the magnetization in garnet films. Physical Review B, 2006, 73, .	3.2	147
31	Observation of Large Kerr Angles in the Nonlinear Optical Response from Magnetic Multilayers. Physical Review Letters, 1995, 74, 3692-3695.	7.8	145
32	Laser-induced ultrafast spin dynamics in ErFeO_3 . Physical Review B, 2011, 84, .	3.2	145
33	Orientation of molecular monolayers at the liquid-liquid interface as studied by optical second harmonic generation. Langmuir, 1988, 4, 452-454.	3.5	143
34	Interface Magnetism and Possible Quantum Well Oscillations in Ultrathin Co/Cu Films Observed by Magnetization Induced Second Harmonic Generation. Physical Review Letters, 1995, 74, 1462-1465.	7.8	139
35	Orientation of surfactant molecules at a liquid-air interface measured by optical second-harmonic generation. Physical Review A, 1985, 31, 537-539.	2.5	137
36	Fast magnetization reversal of GdFeCo induced by femtosecond laser pulses. Physical Review B, 2001, 65, .	3.2	136

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37	Crystallographically amorphous ferrimagnetic alloys: Comparing a localized atomistic spin model with experiments. <i>Physical Review B</i> , 2011, 84, .	3.2	130
38	Ferrimagnetic spintronics. <i>Nature Materials</i> , 2022, 21, 24-34.	27.5	129
39	Impulsive Generation of Coherent Magnons by Linearly Polarized Light in the Easy-Plane Antiferromagnet FeBO_3 . <i>Physical Review Letters</i> , 2007, 99, 167205.	7.8	126
40	Nanoscale Confinement of All-Optical Magnetic Switching in TbFeCo - Competition with Nanoscale Heterogeneity. <i>Nano Letters</i> , 2015, 15, 6862-6868.	9.1	126
41	Self-Assembled Organic Microfibers for Nonlinear Optics. <i>Advanced Materials</i> , 2013, 25, 2084-2089.	21.0	119
42	LCD alignment layers. Controlling nematic domain properties. <i>Journal of Materials Chemistry</i> , 2006, 16, 1305-1314.	6.7	111
43	Coherent Control of the Route of an Ultrafast Magnetic Phase Transition via Low-Amplitude Spin Precession. <i>Physical Review Letters</i> , 2012, 108, 157601.	7.8	107
44	Observation of a Transversal Nonlinear Magneto-Optical Effect in Thin Magnetic Garnet Films. <i>Physical Review Letters</i> , 1997, 78, 2004-2007.	7.8	105
45	Femtosecond optomagnetics: ultrafast laser manipulation of magnetic materials. <i>Laser and Photonics Reviews</i> , 2007, 1, 275-287.	8.7	103
46	Magnetization-induced-second-harmonic generation from surfaces and interfaces. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 148.	2.1	100
47	Room-temperature ultrafast carrier and spin dynamics in GaAs probed by the photoinduced magneto-optical Kerr effect. <i>Physical Review B</i> , 2001, 63, .	3.2	95
48	Phase Diagram of a Ferroelectric Chiral Smectic Liquid Crystal near the Lifshitz Point. <i>Physical Review Letters</i> , 1982, 48, 192-195.	7.8	94
49	Impulsive excitation of coherent magnons and phonons by subpicosecond laser pulses in the weak ferromagnet FeBO_3 . <i>Physical Review B</i> , 2008, 78, .	3.2	92
50	Macrospin dynamics in antiferromagnets triggered by sub-20 femtosecond injection of nanomagnons. <i>Nature Communications</i> , 2016, 7, 10645.	12.8	91
51	A novel method for measurements of second-order non-linearities of organic molecules. <i>Chemical Physics Letters</i> , 1986, 130, 1-5.	2.6	90
52	Wall-Induced Orientational Order of a Liquid Crystal in the Isotropic Phase – an Evanescent-Wave-Ellipsometry Study. <i>Physical Review Letters</i> , 1986, 57, 3065-3068.	7.8	90
53	Structural Transition in Peptide Nanotubes. <i>Biomacromolecules</i> , 2011, 12, 1349-1354.	5.4	90
54	High-Efficiency Second-Harmonic Generation from Hybrid Light-Matter States. <i>Nano Letters</i> , 2016, 16, 7352-7356.	9.1	90

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55	Controlling optical transmission through magneto-plasmonic crystals with an external magnetic field. <i>New Journal of Physics</i> , 2008, 10, 105012.	2.9	89
56	Ultrafast Interaction of the Angular Momentum of Photons with Spins in the Metallic Amorphous Alloy GdFeCo. <i>Physical Review Letters</i> , 2007, 98, 207401.	7.8	88
57	Stable and fast semi-implicit integration of the stochastic Landau-Lifshitz equation. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 176001.	1.8	87
58	Element-Specific Probing of Ultrafast Spin Dynamics in Multisublattice Magnets with Visible Light. <i>Physical Review Letters</i> , 2013, 110, 107205.	7.8	85
59	Ultrafast Quenching of the Antiferromagnetic Order in FeBO ₃ : Direct Optical Probing of the Phonon-Magnon Coupling. <i>Physical Review Letters</i> , 2002, 89, 287401.	7.8	82
60	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. <i>Spin</i> , 2015, 05, 1550004.	1.3	81
61	Nanostructured Pd-Au based fiber optic sensors for probing hydrogen concentrations in gas mixtures. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 4201-4212.	7.1	80
62	All-optical observation and reconstruction of spin wave dispersion. <i>Nature Communications</i> , 2017, 8, 15859.	12.8	80
63	Magnetization-induced optical second-harmonic generation: A probe for interface magnetism. <i>Physical Review B</i> , 1994, 50, 1282-1285.	3.2	78
64	Vicinal Si(111) surfaces studied by optical second-harmonic generation: Step-induced anisotropy and surface-bulk discrimination. <i>Physical Review B</i> , 1990, 42, 9263-9266.	3.2	77
65	Aggregation Induced Enhancement of Linear and Nonlinear Optical Emission from a Hexaphenylene Derivative. <i>Advanced Functional Materials</i> , 2016, 26, 8968-8977.	14.9	77
66	A combined nonlinear and linear magneto-optical microscopy. <i>Applied Physics Letters</i> , 1997, 70, 2306-2308.	3.3	76
67	Optical excitation of antiferromagnetic resonance in TmFeO ₃ . <i>Physical Review B</i> , 2006, 74, .	3.2	75
68	A one-dimensional photonic crystal with a superconducting defect layer. <i>Journal of Optics</i> , 2009, 11, 114014.	1.5	74
69	Nanoscale sub-100 picosecond all-optical magnetization switching in GdFeCo microstructures. <i>Nature Communications</i> , 2015, 6, 5839.	12.8	74
70	dc-electric-field-induced second-harmonic generation in Si(111)-SiO ₂ -Cr metal-oxide-semiconductor structures. <i>Physical Review B</i> , 1996, 54, 1825-1832.	3.2	73
71	Terahertz emission spectroscopy of laser-induced spin dynamics in TmFeO_3 and ErFeO_3 . <i>Physical Review B</i> , 2014, 90, .	3.2	73
72	Tunable Command Layers for Liquid Crystal Alignment. <i>Journal of the American Chemical Society</i> , 2005, 127, 11047-11052.	13.7	72

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73	Observation of surface and bulk phase transitions in nematic liquid crystals. Nature, 2003, 421, 149-152.	27.8	68
74	Viral capsids as templates for the production of monodisperse Prussian blue nanoparticles. Chemical Communications, 2008, , 1542.	4.1	67
75	Ultrafast thermally induced magnetic switching in synthetic ferrimagnets. Applied Physics Letters, 2014, 104, .	3.3	67
76	Electric field induced second harmonic generation spectroscopy on a metal-oxide-silicon structure. Applied Physics Letters, 1996, 68, 1981-1983.	3.3	66
77	Observation of a Near-Surface Structural Phase Transition in SrTiO ₃ by Optical Second Harmonic Generation. Physical Review Letters, 2000, 85, 3664-3667.	7.8	65
78	Surfaces and Interfaces of Liquid Crystals. , 2004, , .		64
79	Large ultrafast photoinduced magnetic anisotropy in a cobalt-substituted yttrium iron garnet. Physical Review B, 2010, 81, .	3.2	63
80	Organized Chromophoric Assemblies for Nonlinear Optical Materials: Towards (Sub)wavelength Scale Architectures. Small, 2015, 11, 1113-1129.	10.0	63
81	Control of the Ultrafast Photoinduced Magnetization across the Morin Transition in DyFeO_3 . Physical Review Letters, 2016, 116, 097401.	7.8	63
82	Interface magnetism studied by optical second harmonic generation. Journal of Magnetism and Magnetic Materials, 1993, 121, 109-111.	2.3	62
83	Nonthermal optical control of magnetism and ultrafast laser-induced spin dynamics in solids. Journal of Physics Condensed Matter, 2007, 19, 043201.	1.8	62
84	Multiscale dynamics of helicity-dependent all-optical magnetization reversal in ferromagnetic Co/Pt multilayers. Physical Review B, 2017, 96, .	3.2	61
85	Nonlinear magneto-optics. Journal of Magnetism and Magnetic Materials, 1997, 175, 35-50.	2.3	60
86	Mechanism of liquid crystal alignment on submicron patterned surfaces. Journal of Applied Physics, 2001, 89, 960-964.	2.5	59
87	Picosecond Dynamics of the Photoinduced Spin Polarization in Epitaxial (Ga,Mn)As Films. Physical Review Letters, 2004, 92, 237203.	7.8	58
88	Ultrafast Magnetism of a Ferrimagnet across the Spin-Flop Transition in High Magnetic Fields. Physical Review Letters, 2017, 118, 117203.	7.8	58
89	Terahertz Magnon-Polaritons in TmFeO ₃ . ACS Photonics, 2018, 5, 1375-1380.	6.6	58
90	Second-order nonlinear polarizability of various biphenyl derivatives. Journal of the Optical Society of America B: Optical Physics, 1987, 4, 945.	2.1	57

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91	Nonlinear Optical Properties and Applications of Fluorenone Molecular Materials. <i>Advanced Optical Materials</i> , 2021, 9, 2100327.	7.3	56
92	Extended π -conjugated ruthenium zinc porphyrin complexes with enhanced nonlinear-optical properties. <i>Chemical Communications</i> , 2015, 51, 2855-2858.	4.1	55
93	Demonstration of laser induced magnetization reversal in GdFeCo nanostructures. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	54
94	Laser Excitation of Lattice-Driven Anharmonic Magnetization Dynamics in Dielectric FeBO_3 . <i>Physical Review Letters</i> , 2014, 112, 147403.	7.8	54
95	Infrared studies of $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ single crystal: ϵ , Optical magnetoconductivity in a half-metallic ferromagnet. <i>Physical Review B</i> , 1999, 59, R697-R700.	3.2	52
96	Second harmonic generation in anisotropic magnetic films. <i>Physical Review B</i> , 2001, 63, .	3.2	52
97	Nonlinear Magneto-Optical Response from Quantum Well States in Noble Metals: Double Period and Interface Localization. <i>Physical Review Letters</i> , 1996, 77, 4608-4611.	7.8	51
98	Theory of nonlinear magneto-optical imaging of magnetic domains and domain walls. <i>Physical Review B</i> , 1997, 56, 2680-2687.	3.2	51
99	Observation of Giant Magnetic Linear Dichroism in $(\text{Ga},\text{Mn})\text{As}$. <i>Physical Review Letters</i> , 2005, 94, 227203.	7.8	51
100	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
101	Controlling coherent and incoherent spin dynamics by steering the photoinduced energy flow. <i>Physical Review B</i> , 2014, 89, .	3.2	49
102	Direct Observation of Exchange Bias Related Uncompensated Spins at the CoO/Cu Interface. <i>Physical Review Letters</i> , 2006, 96, 067206.	7.8	48
103	Laser induced spin precession in highly anisotropic granular L1 FePt. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	48
104	Robust thermoelastic microactuator based on an organic molecular crystal. <i>Nature Communications</i> , 2019, 10, 4573.	12.8	48
105	Magnetization-induced optical second-harmonic generation from magnetic multilayers. <i>Physica B: Condensed Matter</i> , 1995, 204, 281-286.	2.7	47
106	Magnetization manipulation in $(\text{Ga},\text{Mn})\text{As}$ by subpicosecond optical excitation. <i>Applied Physics Letters</i> , 2005, 86, 152506.	3.3	46
107	Switching of chiral magnetic skyrmions by picosecond magnetic field pulses via transient topological states. <i>Scientific Reports</i> , 2016, 6, 27146.	3.3	46
108	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

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109	Giant nonlinear magneto-optical Kerr effects from Fe interfaces (invited). Journal of Applied Physics, 1996, 79, 6181.	2.5	43
110	One-dimensional photonic crystal with a complex defect containing an ultrathin superconducting sublayer. Journal of Applied Physics, 2010, 108, .	2.5	43
111	Terahertz modulation of the Faraday rotation by laser pulses via the optical Kerr effect. Nature Photonics, 2016, 10, 111-114.	31.4	43
112	Anomalous Damped Heat-Assisted Route for Precessional Magnetization Reversal in an Iron Garnet. Physical Review Letters, 2019, 122, 027202.	7.8	43
113	Alignment of liquid crystals with periodic submicron structures ablated in polymeric and indium tin oxide surfaces. Applied Physics Letters, 2003, 82, 2553-2555.	3.3	42
114	THz Generation and Detection by Fluorenone Based Organic Crystals. ACS Photonics, 2018, 5, 671-677.	6.6	42
115	Frequency and wavenumber selective excitation of spin waves through coherent energy transfer from elastic waves. Physical Review B, 2018, 97, .	3.2	42
116	Second harmonic generation from Langmuir-Blodgett films of retinal and retinal Schiff bases. The Journal of Physical Chemistry, 1988, 92, 1756-1759.	2.9	41
117	Optical second harmonic generation study of interface magnetism. Surface Science, 1993, 287-288, 747-749.	1.9	41
118	Laser manipulation of iron for nanofabrication. Applied Physics Letters, 2004, 85, 3842-3844.	3.3	41
119	Highly efficient all-optical switching of magnetization in GdFeCo microstructures by interference-enhanced absorption of light. Physical Review B, 2012, 86, .	3.2	41
120	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
121	All-thermal switching of amorphous Gd-Fe alloys: Analysis of structural properties and magnetization dynamics. Physical Review B, 2015, 92, .	3.2	41
122	Identification of Satellite Faces on Single Crystals of the Incommensurate Structures Rb ₂ ZnBr ₄ and Rb ₂ ZnCl ₄ . Physical Review Letters, 1980, 45, 1700-1702.	7.8	40
123	Study of monolayer polymerization using nonlinear optics. Journal of Chemical Physics, 1986, 85, 7374-7376.	3.0	40
124	Two-dimensional imaging of metastable CO molecules. Journal of Chemical Physics, 1995, 102, 1925-1933.	3.0	40
125	One-dimensional bigyrotropic magnetic photonic crystals. Applied Physics Letters, 2004, 85, 5932-5934.	3.3	40
126	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

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127	Spin-photo-currents generated by femtosecond laser pulses in a ferrimagnetic GdFeCo/Pt bilayer. Applied Physics Letters, 2017, 110, .	3.3	40
128	Rb87 nuclear magnetic resonance evidence for solitons and phasons in Rb ₂ ZnBr ₄ . Physical Review B, 1982, 25, 281-289.	3.2	39
129	Controlling Microsized Polymorphic Architectures with Distinct Linear and Nonlinear Optical Properties. Advanced Optical Materials, 2015, 3, 948-956.	7.3	39
130	Far-infrared and Raman studies of the incommensurate structure Rb ₂ ZnBr ₄ . (A superspace approach). Physical Review B, 1982, 25, 7504-7519.	3.2	38
131	Thickness-dependent phase transition in thin nematic films. Physical Review E, 1996, 54, 5232-5234.	2.1	38
132	Controlled growth of metallic inverse opals by electrodeposition. Physical Chemistry Chemical Physics, 2010, 12, 15414.	2.8	38
133	All-optical manipulation and probing of the d ^{4f} exchange interaction in EuTe. Scientific Reports, 2014, 4, 4368.	3.3	38
134	⁸⁷ Rb NMR lineshape study of the incommensurate phase in Rb ₂ ZnBr ₄ . Solid State Communications, 1980, 34, 895-898.	1.9	37
135	Phase-sensitive detection technique for surface nonlinear optics. Physical Review B, 1998, 58, R16020-R16023.	3.2	37
136	Confinement Effects on the Collective Excitations in Thin Nematic Films. Physical Review Letters, 1998, 80, 1232-1235.	7.8	37
137	Ultrafast time-resolved magneto-optical imaging of all-optical switching in GdFeCo with femtosecond time-resolution and a 1/4 μm spatial-resolution. Review of Scientific Instruments, 2014, 85, 063702.	1.3	37
138	Femtosecond Laser Excitation of Spin Resonances in Amorphous Ferrimagnetic $Gd_{1-x}Fe_x$. Physical Review Letters, 2011, 107, 117202.	7.8	36
139	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
140	Wavelength dependent nonlinear optical response of tetraphenylethene aggregation-induced emission luminogens. Materials Chemistry Frontiers, 2018, 2, 2263-2271.	5.9	36
141	Integration of Tb/Co multilayers within optically switchable perpendicular magnetic tunnel junctions. AIP Advances, 2019, 9, .	1.3	36
142	Adsorption kinetics of surfactant molecules at a liquid-air interface. Journal of Chemical Physics, 1988, 89, 3386-3387.	3.0	35
143	Gapless phason in an antiferroelectric liquid crystal. Physical Review Letters, 1993, 71, 1180-1183.	7.8	35
144	Dynamics of laser-induced spin reorientation in Co/SmFeO ₃ heterostructure. Physical Review B, 2013, 87, .	3.2	35

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145	Optical excitation of thin magnetic layers in multilayer structures. Nature Materials, 2014, 13, 101-102.	27.5	35
146	Second-harmonic generation from realistic film-substrate interfaces: The effects of strain. Applied Physics Letters, 2000, 76, 1848-1850.	3.3	34
147	Linear and nonlinear optical spectroscopy of gadolinium iron borate GdFe ₃ (BO ₃) ₄ . JETP Letters, 2004, 80, 293-297.	1.4	34
148	Raman and infrared spectra of the incommensurate crystal Na ₂ CO ₃ . Physical Review B, 1986, 34, 4240-4254.	3.2	33
149	Optical second harmonic generation study of vicinal Si(111) surfaces. Surface Science, 1991, 251-252, 467-471.	1.9	33
150	Anisotropic magnetization-induced second harmonic generation in Fe/Au superlattices. Physical Review B, 2001, 64, .	3.2	33
151	Domain orientation in ultrathin (Ba,Sr)TiO ₃ films measured by optical second harmonic generation. Journal of Applied Physics, 2003, 93, 6216-6222.	2.5	33
152	Optical Properties of Thulium Orthoferrite TmFeO ₃ . Physics of the Solid State, 2005, 47, 2292.	0.6	33
153	Ferrimagnetic cage-like Fe_4O_3 structure determination from infrared dissociation spectroscopy. Physical Review B, 2010, 82, .	3.3	33
154	Nonlinear Surface Magnetoplasmonics in Kretschmann Multilayers. ACS Photonics, 2016, 3, 179-183.	6.6	33
155	Terahertz Optomagnetism: Nonlinear THz Excitation of GHz Spin Waves in Antiferromagnetic FeBO_3 . Physical Review Letters, 2019, 123, 157202.	7.8	33
156	Resonant Pumping of d 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
157	Optical and magneto-optical studies of a multiferroic GaFeO ₃ with a high Curie temperature. JETP Letters, 2005, 81, 452-457.	1.4	32
158	Femtosecond optomagnetism in dielectric antiferromagnets. Physica Scripta, 2017, 92, 024002.	2.5	32
159	Selective Excitation of Terahertz Magnetic and Electric Dipoles in ErFeO_3 Ions by Femtosecond Laser Pulses in ErFeO_3 . Physical Review Letters, 2017, 118, 017205.	7.8	32
160	Probing structure and magnetism of CoNi/Pt interfaces by nonlinear magneto-optics. Applied Physics Letters, 1998, 72, 2331-2333.	3.3	31
161	Nonlinear magneto-optical probing of magnetic interfaces. Applied Physics B: Lasers and Optics, 1999, 68, 477-484.	2.2	31
162	Nonlinear-optical probing of nanosecond ferroelectric switching. Applied Physics Letters, 2003, 83, 2402-2404.	3.3	31

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163	Magnetic Field Alignment of Liquid Crystals for Fast Display Applications. <i>Advanced Materials</i> , 2005, 17, 610-614.	21.0	31
164	LCD-based detection of enzymatic action. <i>Chemical Communications</i> , 2006, , 434-435.	4.1	31
165	Laser-induced manipulation of magnetic anisotropy and magnetization precession in an ultrathin cobalt wedge. <i>Physical Review B</i> , 2012, 85, .	3.2	31
166	Terahertz-driven magnetism dynamics in the orthoferrite DyFeO ₃ . <i>Applied Physics Letters</i> , 2015, 106, .	3.3	31
167	Rubbing-induced charge domains observed by electrostatic force microscopy: effect on liquid crystal alignment. <i>Liquid Crystals</i> , 2003, 30, 591-598.	2.2	30
168	Efficiency of ultrafast laser-induced demagnetization in Gd _x Fe _{1-x} . <i>Physical Review B</i> , 2012, 85, .	3.2	30
169	Generation of single skyrmions by picosecond magnetic field pulses. <i>Physical Review B</i> , 2017, 96, .	3.2	30
170	Ellipsometry study of two-dimensional phase transitions. <i>Physical Review A</i> , 1988, 37, 2732-2735.	2.5	29
171	Breaking of time-reversal symmetry probed by optical second-harmonic generation. <i>Physical Review B</i> , 1997, 55, R4925-R4930.	3.2	29
172	Domain structures during magnetization reversal in exchange-biased layers. <i>Journal of Applied Physics</i> , 2002, 91, 7745.	2.5	29
173	Investigation of the femtosecond inverse Faraday effect using paramagnetic Dy ₃ . <i>Physical Review B</i> , 2010, 81, .	3.2	29
174	Enhanced Second Harmonic Generation from Ferroelectric HfO ₂ -Based Hybrid Metasurfaces. <i>ACS Nano</i> , 2019, 13, 1213-1222.	14.6	29
175	Theory for the nonlinear optical response of quantum-well states in ultrathin films. <i>Physical Review B</i> , 1998, 57, 7377-7384.	3.2	28
176	Time-resolved nonlinear optical spectroscopy of Mn ³⁺ ions in rare-earth hexagonal manganites RMnO ₃ (R=Sc,Y,Er). <i>Physical Review B</i> , 2001, 64, .	3.2	28
177	Noncontact Liquid-Crystal Alignment by Supramolecular Amplification of Nanogrooves. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1812-1815.	13.8	28
178	Magnon-magnon interactions in a room-temperature magnonic Bose-Einstein condensate. <i>Physical Review B</i> , 2017, 96, .	3.2	28
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