Tatiana Murzina

List of Publications by Year
in descending order

153	2,241	304743 22	254184 43
papers	citations	h-index	g-index

153	153	153	2534
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Functional and nonlinear optical metasurfaces. Laser and Photonics Reviews, 2015, 9, 195-213.	8.7	403
2	Second harmonic generation in multilayer graphene induced by direct electric current. Physical Review B, 2012, 85, .	3.2	105
3	Enhanced Magnetic Second-Harmonic Generation from Resonant Metasurfaces. ACS Photonics, 2015, 2, 1007-1012.	6.6	102
4	Optical second-harmonic generation induced by a dc electric field at the Siâ€“SiO_2 interface. Optics Letters, 1994, 19, 1450.	3.3	81
5	Twoâ€Photon Luminescence and Secondâ€Harmonic Generation in Organic Nonlinear Surface Comprised of Selfâ€Assembled Frustum Shaped Organic Microlasers. Advanced Materials, 2017, 29, 1605260.	21.0	75
6	Advanced Organic and Polymer Whisperingâ€Galleryâ€Mode Microresonators for Enhanced Nonlinear Optical Light. Advanced Optical Materials, 2018, 6, 1800343.	7.3	70
7	Mesoporous silicon photonic structures with thousands of periods. Journal of Applied Physics, 2012, 112, .	2.5	67
8	Surface-Enhanced Optical Third-Harmonic Generation in Ag Island Films. Physical Review Letters, 2005, 95, 227402.	7.8	59
9	Multiphoton Effects Enhanced due to Ultrafast Photon-Number Fluctuations. Physical Review Letters, 2017, 119, 223603.	7.8	58
10	Chiralityâ€Controlled Multiphoton Luminescence and Secondâ€Harmonic Generation from Enantiomeric Organic Microâ€Optical Waveguides. Advanced Optical Materials, 2019, 7, 1801775.	7.3	53
11	Plasmonic enhancement of nonlinear magneto-optical response in nickel nanorod metamaterials. Physical Review B, 2013, 87, .	3.2	51
12	Chiral organic photonics: self-assembled micro-resonators for an enhanced circular dichroism effect in the non-linear optical signal. Journal of Materials Chemistry C, 2017, 5, 12349-12353.	5.5	40
13	Surface Plasmon-Mediated Nanoscale Localization of Laser-Driven sub-Terahertz Spin Dynamics in Magnetic Dielectrics. Nano Letters, 2018, 18, 2970-2975.	9.1	39
14	Magnetization-induced second-harmonic generation in magnetophotonic crystals. Physical Review B, 2004, 70, .	3.2	36
15	Ambient Pressure Sublimation Technique Provides Polymorphâ€Selective Perylene Nonlinear Optical Microcavities. Advanced Optical Materials, 2020, 8, 1901317.	7.3	36
16	Wide tunability of magnetoplasmonic crystals due to excitation of multiple waveguide and plasmon modes. Optics Express, 2014, 22, 17762.	3.4	34
17	Magneto-optical effects in hyperbolic metamaterials. Optics Letters, 2018, 43, 3917.	3.3	32
18	Anisotropy versus circular dichroism in second harmonic generation from fourfold symmetric arrays of G-shaped nanostructures. Physical Review B, 2014, 89, .	3.2	29

#	Article	IF	Citations
19	Second harmonic generation in magnetic nanoparticles with vortex magnetic state. Physical Review B, 2013, 88, .	3.2	27
20	Plasmon-assisted enhancement of third-order nonlinear optical effects in core (shell) nanoparticles. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 138.	2.1	25
21	Chirality in nonlinear-optical response of planar G-shaped nanostructures. Optics Express, 2012, 20, 8518.	3.4	23
22	Observation of the temporal Bragg-diffraction-induced laser-pulse splitting in a linear photonic crystal. Physical Review A, 2012, 86, .	2.5	23
23	Optical second-harmonic-generation probe of two-dimensional ferroelectricity. Optics Letters, 2000, 25, 411.	3.3	22
24	Nonlinear magneto-optical Kerr effect in hyper-Rayleigh scattering from layer-by-layer assembled films of yttrium iron garnet nanoparticles. Applied Physics Letters, 2001, 79, 1309-1311.	3.3	22
25	Giant nonlinear magneto-optical response of magnetoplasmonic crystals. Physical Review B, 2015, 91, .	3.2	22
26	Coherent lattice dynamics in topological insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>probed with time-resolved optical second-harmonic generation. Physical Review B, 2015, 92, .	3.2	21
27	Polarization-resolved second harmonic generation microscopy of chiral G-shaped metamaterials. Physical Review B, 2017, 96, .	3.2	21
28	Multifunctional Chiral Ï€â€Conjugated Polymer Microspheres: Production and Confinement of NLO signal, Detection of Circularly Polarized Light, and Display of Laserâ€Triggered NLO Emission Shifts. Advanced Optical Materials, 2020, 8, 2000431.	7.3	21
29	A Twoâ€Photon Pumped Supramolecular Upconversion Microresonator. ChemNanoMat, 2018, 4, 764-768.	2.8	19
30	Magnetization-induced third harmonic generation in magnetophotonic microcavities. JETP Letters, 2003, 77, 537-540.	1.4	18
31	Coherent and incoherent second harmonic generation in planar G-shaped nanostructures. Optics Letters, 2011, 36, 3681.	3.3	18
32	Borrmann effect in photonic crystals. Optics Letters, 2017, 42, 1389.	3.3	18
33	Nonlinear magneto-optical Kerr effect and second harmonic generation interferometry in Coâ€“Cu granular films. Applied Physics Letters, 1998, 73, 3769-3771.	3.3	17
34	Polarization effects in diffraction-induced laser pulse splitting in one-dimensional photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1261.	2.1	17
35	Magneto-optical response of two-dimensional magnetic plasmon structures based on gold nanodisks embedded in a ferrite garnet layer. JETP Letters, 2015, 102, 46-50.	1.4	17
36	First and second order in magnetization effects in optical second-harmonic generation from a trilayer magnetic structure. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 331.	2.1	17

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37	High-quality Au/BIG/GGG magnetoplasmonic crystals fabricated by a combined ion-beam etching technique. Optical Materials Express, 2015, 5, 1647.	3.0	16
38	Ring-shaped spectra of parametric downconversion and entangled photons that never meet. Optics Letters, 2016, 41, 2827.	3.3	16
39	Surface plasmon-driven second-harmonic generation asymmetry in anisotropic plasmonic crystals. Physical Review B, 2016, 93, .	3.2	15
40	High Optical Energy Storage and Two-Photon Luminescence from Solution-Processed Perovskite-Polystyrene Composite Microresonators. ACS Applied Energy Materials, 2019, 2, 428-435.	5.1	15
41	Second-harmonic generation spectroscopy in gold nanorod-based epsilon-near-zero metamaterials. Optics Letters, 2020, 45, 1866.	3.3	15
42	Magnetophotonic crystals based on yttrium-iron-garnet infiltrated opals: Magnetization-induced second-harmonic generation. Applied Physics Letters, 2006, 88, 022501.	3.3	14
43	Plasmonic and magnetic effects accompanying optical second-harmonic generation in Au/Co/Au nanodisks. JETP Letters, 2009, 90, 504-508.	1.4	14
44	Vertical hybrid microcavity based on a polymer layer sandwiched between porous silicon photonic crystals. Applied Physics Letters, 2009, 95, .	3.3	13
45	Optical pendulum effect in one-dimensional diffraction-thick porous silicon based photonic crystals. Journal of Applied Physics, 2015, 118, .	2.5	13
46	Phase-matched optical second harmonic generation in a hyperbolic metamaterial based on silver nanorods. Physical Review B, 2020, 102, .	3.2	13
47	Magnetoplasmonic crystal waveguide. Optics Express, 2018, 26, 21086.	3.4	12
48	Magneto-optical effects in hyperbolic metamaterials based on ordered arrays of bisegmented gold/nickel nanorods. Nanotechnology, 2021, 32, 305710.	2.6	12
49	Anomalous birefringence and enhanced magneto-optical effects in epsilon-near-zero metamaterials based on nanorodsâ€™ arrays. Optics Express, 2019, 27, 32069.	3.4	12
50	Magnetization-induced optical third-harmonic generation in Co and Fe nanostructures. Physical Review B, 2006, 73, .	3.2	11
51	Magnetization-induced effects in second harmonic generation under the lattice plasmon resonance excitation. Optics Letters, 2016, 41, 5446.	3.3	11
52	Hyper-Rayleigh scattering in Gd-containing Langmuirâ€“Blodgett superstructures. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 63.	2.1	10
53	Second-harmonic generation interferometry in magnetic-dipole nanostructures. Optics Letters, 2015, 40, 3758.	3.3	10
54	Observation of optical second-harmonic generation in porous-silicon-based photonic crystals in the Laue diffraction scheme. Physical Review A, 2016, 93, .	2.5	10

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55	Optical Effects in Magnetic Hyperbolic Metamaterials. Physics of the Solid State, 2018, 60, 2264-2268.	0.6	10
56	Electroinduced and photoinduced effects in optical second-harmonic generation and hyper-Rayleigh scattering from thin films of bacteriorhodopsin. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 771.	2.1	9
57	Laue diffraction in one-dimensional photonic crystals: The way for phase-matched second-harmonic generation. Physical Review B, 2016, 93, .	3.2	9
58	Tuning the Optical Properties of Hyperbolic Metamaterials by Controlling the Volume Fraction of Metallic Nanorods. Nanomaterials, 2019, 9, 739.	4.1	9
59	Second Harmonic Generation as a Nondestructive Readout of Optical (Photo(electro)chromic and) Tj ETQq1 1 0.784314 rgBT /Overlo	1.5	8
60	Atomic-to-mesoscopic scale structural transition in metalâ€“carbon diamondlike composites probed by second-harmonic generation. Applied Physics Letters, 2003, 83, 4749-4751.	3.3	8
61	Kerr-lens mode-locked Ti:Sapphire laser pumped by a single laser diode. Laser Physics Letters, 2018, 15, 045001.	1.4	8
62	Study of broadband multimode light via non-phase-matched sum frequency generation. New Journal of Physics, 2019, 21, 033024.	2.9	8
63	Two-dimensional high-quality Ag/Py magnetoplasmonic crystals. Applied Physics Letters, 2020, 116, 013106.	3.3	8
64	Giant third optical harmonic generation in island silver films. JETP Letters, 2004, 80, 527-531.	1.4	7
65	Borrmann effect in photonic crystals: Nonlinear optical consequences. JETP Letters, 2008, 87, 395-398.	1.4	7
66	Experimental demonstration of selective compression of femtosecond pulses in the Laue scheme of the dynamical Bragg diffraction in 1D photonic crystals. Optics Express, 2014, 22, 31002.	3.4	7
67	Superluminal and slow femtosecond laser pulses in hyperbolic metamaterials in epsilon-near-zero regime. Optics Letters, 2021, 46, 2276.	3.3	7
68	Ferroelectric Photonic Crystals Based on Nanostructured Lead Zirconate Titanate. Physics of the Solid State, 2005, 47, 150.	0.6	6
69	Second- and third-harmonic generation and hyper-Rayleigh scattering in porous-silicon-based photonic microcavities. Optics Letters, 2008, 33, 2581.	3.3	6
70	Probing structural inhomogeneity of graphene layers via nonlinear optical scattering. Optics Letters, 2013, 38, 4589.	3.3	6
71	Chirality driven effects in multiphoton excited whispering gallery mode microresonators prepared by a self-assembly technique. Laser Physics Letters, 2020, 17, 036201.	1.4	6
72	Optical Properties of Hyperbolic Metamaterials (Brief Review). JETP Letters, 2021, 114, 653-664.	1.4	6

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73	Ferroelectric ordering and electroclinic effect in chiral smectic liquid crystals. Physical Review E, 2004, 69, 031701.	2.1	5
74	Magnetism of a cobalt-gold planar nanostructure on the silicon surface. Journal of Experimental and Theoretical Physics, 2009, 109, 107-116.	0.9	5
75	Circular dichroism in optical second harmonic generated in reflection from chiral G-shaped metamaterials. Journal of Physics: Conference Series, 2012, 352, 012029.	0.4	5
76	Dynamical Bragg Diffraction in the Laue Geometry in 1D Porous Silicon-Based Photonic Crystals. Journal of Russian Laser Research, 2015, 36, 588-601.	0.6	5
77	Borrmann effect in Laue diffraction in one-dimensional photonic crystals under a topological phase transition. Physical Review B, 2019, 99, .	3.2	5
78	Interface-induced optical effects in magnetic two- and three-layer films. Journal of Magnetism and Magnetic Materials, 2021, 528, 167780.	2.3	5
79	Giant Magnetic Field Induced Effects in the Second-Harmonic Generation in a Planar Anisotropic Ta/Co/Pt Structure. JETP Letters, 2020, 111, 333-337.	1.4	5
80	Optical Effects in Magnetoplasmonic Crystals Based on 1D Metal-Dielectric Lattice. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 1481-1486.	0.6	5
81	Magnetization-induced third harmonic generation in magnetic nanogranular films: Correlation with giant magnetoresistance. JETP Letters, 2004, 79, 155-159.	1.4	4
82	Linear and nonlinear magnetooptics of planar Au/Co/Si nanostructures. Thin Solid Films, 2009, 517, 5918-5921.	1.8	4
83	Second-harmonic confocal microscopy of layered microstructures based on porous silicon. JETP Letters, 2011, 94, 451-454.	1.4	4
84	Optical Second Harmonic Generation in Semiconductor Nanostructures. Research Letters in Physics, 2012, 2012, 1-11.	0.2	4
85	Nonlinear Optics of Nanostructures. Research Letters in Physics, 2012, 2012, 1-2.	0.2	4
86	Polarization Effects in Optical Second Harmonic Generation from Chiral Nanostructures. Journal of Experimental and Theoretical Physics, 2018, 127, 370-382.	0.9	4
87	Effect of inhomogeneous magnetization in optical second harmonic generation from layered nanostructures. Optics Express, 2021, 29, 2106.	3.4	4
88	Magnetic Fieldâ€“Assisted Manipulation of Polymer Optical Microcavities. Advanced Photonics Research, 2021, 2, 2000146.	3.6	4
89	Resonant optical effects in composite Co/opal-based magnetoplasmonic structures. Optics Letters, 2021, 46, 3087.	3.3	4
90	Magnetic-Field-Induced Optical Second-Harmonic Generation Study of Co/Pt and Co/Ta Interfaces. Journal of Experimental and Theoretical Physics, 2020, 130, 555-561.	0.9	4

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91	Two-Photon Laser Lithography of Active Microcavity Structures. JETP Letters, 2022, 115, 261-266.	1.4	4
92	Two-dimensional ferroelectricity and phase transitions in PVDF Langmuir-Blodgett films probed by second harmonic generation. Integrated Ferroelectrics, 2001, 35, 23-29.	0.7	3
93	Enhancement of Optical Second Harmonic Generation in Hybrid Plasmonicâ€“Photonic Microcavities. JETP Letters, 2018, 108, 296-301.	1.4	3
94	Synthesis and Properties of Nanoscale Bismuth-Iron Garnet Films for Magnetoplasmonic Heterostructures. Journal of Surface Investigation, 2019, 13, 56-59.	0.5	3
95	Magneto-Optical Effects in Au/Ni Based Composite Hyperbolic Metamaterials. Physics of Metals and Metallography, 2019, 120, 1266-1269.	1.0	3
96	Spectral properties of second, third and fourth harmonics generation from broadband multimode bright squeezed vacuum. Laser Physics Letters, 2020, 17, 075401.	1.4	3
97	Size Effects in Optical and Magneto-Optical Response of Opal-Cobalt Heterostructures. Materials, 2021, 14, 3481.	2.9	3
98	Second-harmonic generation in gold crescent- and comma-like nanostructures. Optics Letters, 2019, 44, 5473.	3.3	3
99	Surface ferroelectric phase transition in multilayer polymer Langmuir films. JETP Letters, 2003, 78, 129-133.	1.4	2
100	Cubic self-action effects in photonic-crystal microcavities. JETP Letters, 2006, 84, 451-454.	1.4	2
101	Magneto- and electroinduced effects in optical second-harmonic generation from a planar Au/Co/Si nanostructure. Applied Physics Letters, 2013, 103, 151606.	3.3	2
102	Femtosecond laser-induced optical anisotropy in a two-dimensional lattice of magnetic dots. Physical Review B, 2014, 89, .	3.2	2
103	Experimental Correlation between Nonlinear Optical and Magnetotransport Properties Observed in Au-Co Thin Films. Journal of Nanomaterials, 2016, 2016, 1-7.	2.7	2
104	Nonlinear optical effects in organic microstructures. Proceedings of SPIE, 2017, , .	0.8	2
105	Enhancement of Nonlinear Optical Effects in Porous Composite Plasmonic Structures. JETP Letters, 2018, 107, 297-301.	1.4	2
106	Double-Lattice Magnetoplasmonic Structures Based on BIG and Perforated Gold Films. Physics of the Solid State, 2019, 61, 1658-1664.	0.6	2
107	Magneto-optical properties of plasmonic hyperbolic metamaterials. Journal of Physics: Conference Series, 2020, 1461, 012120.	0.4	2
108	Surface plasmon driven enhancement of linear and nonlinear magneto-optical Kerr effects in bimetallic magnetoplasmonic crystals in conical diffraction. Physical Review B, 2022, 105, .	3.2	2

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109	Readout of Magnetic Film-Based Memories by Nonlinear-Optical Magnetic Kerr Effect. Materials Research Society Symposia Proceedings, 1998, 517, 605.	0.1	1
110	Nonlinear Magneto-Optical Kerr Effect in Gd-Containing Langmuir-Blodgett Films. Materials Research Society Symposia Proceedings, 1998, 517, 657.	0.1	1
111	Enhancement of the nonlinear effects in composite plasmonic nanoparticles. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 174-176.	0.6	1
112	Second order nonlinear spectroscopy of nickel nanorods. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 63-65.	0.6	1
113	Second harmonic generation in planar chiral nanostructures. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 66-68.	0.6	1
114	Optical Effects Accompanying the Dynamical Bragg Diffraction in Linear 1D Photonic Crystals Based on Porous Silicon. Crystals, 2014, 4, 427-438.	2.2	1
115	Magnetoplasmonic crystals: Resonant linear and nonlinear magnetooptical effects. Physics of the Solid State, 2016, 58, 2251-2255.	0.6	1
116	Magnetization-induced chirality in second harmonic generation response of U-shaped permalloy nanostructures. Physical Review B, 2019, 99, .	3.2	1
117	Dyakonov plasmons in hypercrystals studied by finite-difference frequency-domain method. AIP Conference Proceedings, 2020, , .	0.4	1
118	Interface Driven Effects in Magnetization-Induced Optical Second Harmonic Generation in Layered Films Composed of Ferromagnetic and Heavy Metals. Materials, 2021, 14, 3573.	2.9	1
119	Resonant Enhancement of the Transverse Magneto-Optical Effect in Opal/Cobalt/Silver Plasmonic Heterostructures. JETP Letters, 2021, 114, 456-462.	1.4	1
120	Magnetic Second Harmonic Generation Studies of Co-Cu Granular Films. Materials Research Society Symposia Proceedings, 1998, 517, 651.	0.1	0
121	Interferometry of Optical Second Harmonic Generation from Gd-Containing Langmuir-Blodgett Superstructures: Magneto-Induced Effects. Materials Research Society Symposia Proceedings, 1999, 577, 421.	0.1	0
122	Magnetization-Induced Third-Harmonic Generation in Nanostructures and Thin Films. Physics of the Solid State, 2005, 47, 153.	0.6	0
123	Nanostructured one-and three-dimensional magnetophotonic crystals based on porous silicon and artificial opals. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 24-26.	0.6	0
124	Magnetic-field-induced coherence in hyper-Rayleigh scattering. JETP Letters, 2012, 95, 127-131.	1.4	0
125	Circular dichroism effects in nonlinear-optical response of planar chiral metamaterials. , 2013, , .		0
126	Polarization and nonlinear effects in diffraction-induced laser pulse splitting in one-dimensional photonic crystals. , 2013, , .		0

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127	Selective Focusing of Laser Pulses by Diffraction-Induced Pulse Splitting in Photonic Crystals. , 2014, , .		0
128	Nonlinear-Optical Studies of Magnetic Dipole Metamaterials. , 2014, , .		0
129	Nonlinear Optics in Magnetic Nanostructures. , 2015, , 149-174.		0
130	Phase-matched second harmonic generation in one-dimensional photonic crystals in the Laue geometry. , 2016, , .		0
131	Quasi-phase-matching second harmonic generation caused by pendulum effect in photonic crystals. , 2016, , .		0
132	Giant Goos-Hanchen effect and focusing of Gaussian light beam by one-dimensional photonic crystal with modulated band gap. , 2016, , .		0
133	Spectral features of the Borrmann effect in 1D photonic crystals in the Laue geometry. Proceedings of SPIE, 2017, , .	0.8	0
134	Quadratic and cubic nonlinear-optical response of organic microstructures. AIP Conference Proceedings, 2017, , .	0.4	0
135	Optical second harmonic generation from chiral nanostructures. , 2017, , .		0
136	Optical harmonic generation from bright squeezed vacuum. , 2017, , .		0
137	Nonlinear optics of resonant metamaterials. AIP Conference Proceedings, 2019, , .	0.4	0
138	Nonlinear magneto-optical Kerr effect in Co/Pt and Co/Ta bilayer films. Journal of Physics: Conference Series, 2019, 1389, 012105.	0.4	0
139	Optical second harmonic generation in cobalt nanolayers influenced by nonmagnetic heavy metals. , 2019, , .		0
140	Enhanced Transmission in Non-Hermitian One-Dimensional Photonic Crystals Under the Band Inversion. , 2019, , .		0
141	Femtosecond laser pulse splitting effect in second harmonic generation under Laue diffraction in one-dimensional photonic crystals. Physical Review B, 2021, 103, .	3.2	0
142	Selective Compression of Femtosecond Laser Pulses in a Linear Photonic Crystal. , 2013, , .		0
143	Femtosecond Pulse-Splitting Effect in Second Harmonic Generation in the Laue Diffraction Scheme From 1D Photonic Crystals. , 2018, , .		0
144	Two-photon Luminescence and Second Harmonic Generation in Resonant Organic Crystalline Microstructures. , 2019, , .		0

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145	Second Harmonic Generation in Chiral Nanoholes. , 2019, , .		0
146	Resonant Enhancement of Emission of Dipoles Located in Epsilon-Near-Zero Metal Nanorod-Based Metamaterial. , 2020, , .		0
147	Multiphoton effects with bright squeezed vacuum. , 2020, , .		0
148	Light diffraction in photonic hypercrystals studied by finite-difference frequency-domain method. , 2020, , .		0
149	Second Harmonic Generation in Arrays of Nanoholes in a Silver Film. Journal of Experimental and Theoretical Physics, 2020, 131, 558-565.	0.9	0
150	Experimental study of nonlinear absorption in hyperbolic metamaterials based on ordered arrays of nanorods. Journal of Physics: Conference Series, 2021, 2015, 012086.	0.4	0
151	Cascaded frequency up-conversion of bright squeezed vacuum: spectral and correlation properties. Optics Letters, 2022, 47, 766-769.	3.3	0
152	Resonant Magnetooptical Effects in Encapsulated 1D Plasmonic Crystals. Advanced Photonics Research, 0, , 2100329.	3.6	0
153	Magnetization-Induced Nonlinear Optical Response of Films Based on Nanolayers of Heavy and Ferromagnetic Metals. Physics of the Solid State, 2021, 63, 1519-1523.	0.6	0