

Tatyana Dolgova

List of Publications by Year in descending order

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61
papers

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citations

566801

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docs citations

61
times ranked

1256
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface profile-tailored magneto-optics in magnetoplasmonic crystals. <i>APL Photonics</i> , 2022, 7, .	3.0	8
2	Pump-probe spectroscopy in gold-garnet magnetoplasmonic metasurfaces. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012034.	0.3	0
3	Ultrafast Magneto-Optics in Nickel Magnetoplasmonic Crystals. <i>Nano Letters</i> , 2020, 20, 8615-8619.	4.5	19
4	Time-dependent metasurfaces for efficient all-optical switching at different frequencies. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
5	Tunable multimodal magnetoplasmonic metasurfaces. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	18
6	Low-Power Absorption Saturation in Semiconductor Metasurfaces. <i>ACS Photonics</i> , 2019, 6, 2797-2806.	3.2	25
7	Ultrafast all-optical tuning of direct-gap semiconductor metasurfaces. <i>Nature Communications</i> , 2017, 8, 17.	5.8	300
8	Nonlinear anisotropy in silicon nanoparticle oligomers. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
9	Ultrafast modulation of femtosecond laser pulses in direct-gap semiconductor metasurfaces with magnetic resonances. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
10	Localized-to-propagating surface plasmon transitions in gold nanoslit gratings. <i>JETP Letters</i> , 2016, 103, 46-50.	0.4	2
11	Transverse magneto-optical Kerr effect in 2D gold-garnet nanogratings. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 383, 110-113.	1.0	13
12	Ultrafast dynamics of Faraday rotation in thin films. , 2015, , .		1
13	Femtosecond pulse shaping with plasmonic crystals. <i>JETP Letters</i> , 2015, 101, 787-792.	0.4	7
14	Femtosecond control of magneto-optical effects in magnetoplasmonic crystals. , 2015, , .		0
15	Polarization-sensitive correlation spectroscopy of Faraday-effect femtosecond dynamics. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014, 78, 43-48.	0.1	1
16	Femtosecond intrapulse evolution of the magneto-optic Kerr effect in magnetoplasmonic crystals. <i>Physical Review B</i> , 2014, 90, .	1.1	14
17	Recent Advances in Nanoplasmonics and Magnetoplasmonics. <i>Nanostructure Science and Technology</i> , 2013, , 41-75.	0.1	2
18	Transversal magneto-optical Kerr effect in two-dimensional nickel magnetoplasmonic crystals. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	11

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19	Magnetoplasmonic crystals based on commercial digital discs. Journal of Applied Physics, 2013, 113, .	1.1	13
20	Magnetic field-controlled femtosecond pulse shaping by magnetoplasmonic crystals. Journal of Applied Physics, 2013, 113, 17A947.	1.1	8
21	Shaping of Femtosecond Laser Pulses with Plasmonic Crystals. , 2013, , .		0
22	Ultrafast Polarization Shaping with Fano Plasmonic Crystals. Physical Review Letters, 2012, 108, 253903.	2.9	23
23	Femtosecond time-resolved Faraday rotation in thin magnetic films and magnetophotonic crystals. Journal of Applied Physics, 2012, 111, .	1.1	6
24	Magneto-optical Kerr effect enhancement at the Wood's anomaly in magnetoplasmonic crystals. Journal of Magnetism and Magnetic Materials, 2012, 324, 3516-3518.	1.0	51
25	One-dimensional magnetophotonic crystals based on double-layer Bi-substituted iron garnet films. Materialwissenschaft Und Werkstofftechnik, 2011, 42, 19-23.	0.5	14
26	Surface-plasmon relaxation dynamics in planar plasmonic crystals. , 2010, , .		0
27	Second harmonic generation induced by mechanical stresses in silicon. JETP Letters, 2010, 90, 718-722.	0.4	4
28	Femtosecond relaxation dynamics of surface plasmon-polaritons in the vicinity of fano-type resonance. JETP Letters, 2010, 92, 575-579.	0.4	10
29	Optical properties of one-dimensional subwave plasmonic nanostructures. JETP Letters, 2010, 92, 742-745.	0.4	1
30	Optical chirality in plasmonic arrays of subwavelength Z-shaped apertures. , 2010, , .		0
31	Full Poincaré sphere coverage with plasmonic nanoslit metamaterials at Fano resonance. Physical Review B, 2010, 82, .	1.1	37
32	Femtosecond dynamics of resonantly enhanced surface plasmons in planar plasmonic crystals. , 2010, , .		0
33	One-dimensional magnetophotonic crystals based on double-layer Bi-substituted iron garnet films. , 2010, , .		0
34	Magneto-optical response enhancement in 1D and 2D magnetoplasmonic crystals. , 2009, , .		1
35	Plasmonic enhancement of linear birefringence and linear dichroism in anisotropic optical metamaterials. JETP Letters, 2009, 90, 433-437.	0.4	15
36	Enhancement of second-harmonic generation from silicon stripes under external cylindrical strain. Optics Letters, 2009, 34, 3340.	1.7	22

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37	Plasmon-induced wavelength-dependent polarization switching in optical metamaterials. Proceedings of SPIE, 2009, , .	0.8	0
38	<title>Structural and nonlinear-optical studies of ultrathin Si/SiO ₂ multiple quantum wells</title>. , 2006, , .		0
39	Subnanometer-scale size effects in electronic spectra of Si ⁿ /SiO ₂ multiple quantum wells: Interferometric second-harmonic generation spectroscopy. Physical Review B, 2006, 73, .	1.1	6
40	Anisotropic Photonic Crystals and Microcavities Based on Mesoporous Silicon. Physics of the Solid State, 2005, 47, 156.	0.2	13
41	Magnetization-induced second- and third-harmonic generation in magnetophotonic crystals. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 176.	0.9	24
42	Third-harmonic generation in silicon photonic crystals and microcavities. Physical Review B, 2004, 70, .	1.1	33
43	Magnetization-induced second-harmonic generation in magnetophotonic crystals. Physical Review B, 2004, 70, .	1.1	36
44	Optical third-harmonic generation in one-dimensional photonic crystals and microcavities. Journal of Experimental and Theoretical Physics, 2004, 98, 463-477.	0.2	14
45	Optical third-harmonic generation in coupled microcavities based on porous silicon. JETP Letters, 2004, 80, 633-637.	0.4	5
46	Nonlinear magneto-optical Kerr effect in garnet magnetophotonic crystals. Journal of Applied Physics, 2004, 95, 7330-7332.	1.1	25
47	Second- and third-harmonic generation spectroscopy of coupled microcavities formed from all-silicon photonic crystals. Materials Research Society Symposia Proceedings, 2003, 797, 1.	0.1	0
48	Enhanced second-harmonic generation in coupled microcavities based on all-silicon photonic crystals. Physical Review B, 2003, 68, .	1.1	18
49	Optical second-harmonic interferometric spectroscopy of Si(111)/SiO ₂ interface in the vicinity of E ₂ critical points. Physical Review B, 2002, 66, .	1.1	12
50	Split-mode-enhanced second-harmonic generation in porous silicon-coupled microcavities. , 2002, , .		0
51	Observation of the local field distribution in photonic crystal microcavity by SNOM technique. , 2002, 4808, 180.		0
52	Observation of the third-harmonic generation in one-dimensional all-silicon microcavities. , 2002, 4808, 67.		0
53	Giant optical second-harmonic generation in single and coupled microcavities formed from one-dimensional photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2129.	0.9	48
54	Giant microcavity enhancement of second-harmonic generation in all-silicon photonic crystals. Applied Physics Letters, 2002, 81, 2725-2727.	1.5	67

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55	Second-harmonic spectroscopy of electronic structure of Si/SiO ₂ multiple quantum wells. Applied Physics B: Lasers and Optics, 2002, 74, 671-675.	1.1	5
56	Second-harmonic interferometric spectroscopy of buried interfaces of column IV semiconductors. Applied Physics B: Lasers and Optics, 2002, 74, 653-659.	1.1	8
57	Giant third-harmonic in porous silicon photonic crystals and microcavities. JETP Letters, 2002, 75, 15-19.	0.4	32
58	MICROCAVITY ENHANCEMENT OF SECOND-HARMONIC GENERATION AND RAMAN SCATTERING IN PHOTONIC CRYSTALS OF POROUS SILICON. , 2001, , .		0
59	Probe of the vicinal (111) surface by second harmonic phase spectroscopy. Materials Science in Semiconductor Processing, 2001, 4, 51-53.	1.9	2
60	Giant second harmonic generation in microcavities based on porous silicon photonic crystals. JETP Letters, 2001, 73, 6-9.	0.4	35
61	Optical second-harmonic phase spectroscopy of the Si(111)â€“SiO ₂ interface. Thin Solid Films, 2000, 364, 91-94.	0.8	6