

Ksenia Dolgaleva

List of Publications by Year in descending order

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45
papers

986
citations

516710
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434195
31
g-index

45
all docs

45
docs citations

45
times ranked

1040
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high-Q resonances in plasmonic metasurfaces. Nature Communications, 2021, 12, 974.	12.8	212
2	Local-field effects in nanostructured photonic materials. Advances in Optics and Photonics, 2012, 4, 1.	25.5	82
3	Compact highly-nonlinear AlGaAs waveguides for efficient wavelength conversion. Optics Express, 2011, 19, 12440.	3.4	63
4	Multiresonant High-Q Plasmonic Metasurfaces. Nano Letters, 2019, 19, 6429-6434.	9.1	63
5	Prediction of an extremely large nonlinear refractive index for crystals at terahertz frequencies. Physical Review A, 2015, 92, .	2.5	52
6	Observation of a Microscopic Cascaded Contribution to the Fifth-Order Nonlinear Susceptibility. Physical Review Letters, 2009, 103, 113902.	7.8	47
7	Ultra-strong polarization dependence of surface lattice resonances with out-of-plane plasmon oscillations. Optics Express, 2016, 24, 28279.	3.4	47
8	Using surface lattice resonances to engineer nonlinear optical processes in metal nanoparticle arrays. Physical Review A, 2018, 97, .	2.5	41
9	Efficient nonlinear metasurfaces by using multiresonant high-Q plasmonic arrays. Journal of the Optical Society of America B: Optical Physics, 2019, 36, E30.	2.1	39
10	Optical frequency conversion in integrated devices [Invited]. Journal of the Optical Society of America B: Optical Physics, 2011, 28, A67.	2.1	31
11	Continuous-wave quasi-phase-matched waveguide correlated photon pair source on a III-V chip. Applied Physics Letters, 2013, 103, .	3.3	30
12	Broadband self-phase modulation, cross-phase modulation, and four-wave mixing in 9-mm-long AlGaAs waveguides. Optics Letters, 2010, 35, 4093.	3.3	26
13	Tuneable four-wave mixing in AlGaAs nanowires. Optics Express, 2015, 23, 22477.	3.4	25
14	Integrated optical temporal Fourier transformer based on a chirped Bragg grating waveguide. Optics Letters, 2011, 36, 4416.	3.3	19
15	Giant Asymmetric Second-Harmonic Generation in Bianisotropic Metasurfaces Based on Bound States in the Continuum. ACS Photonics, 2021, 8, 3234-3240.	6.6	18
16	Fabrication and optical characterization of GaN waveguides on (1101)-oriented $\text{In}^{1-x}\text{Ga}_x\text{N}$. Optical Materials Express, 2018, 8, 88.	3.0	17
17	Terahertz Nonlinear Spectroscopy of Water Vapor. ACS Photonics, 2021, 8, 1683-1688.	6.6	17
18	Ultrafast modulation of the spectral filtering properties of a THz metasurface. Optics Express, 2020, 28, 20296.	3.4	17

#	ARTICLE	IF	CITATIONS
19	AlGaAs Nonlinear Integrated Photonics. Micromachines, 2022, 13, 991.	2.9	15
20	Enhanced Terahertz Detection Efficiency via Grating-Assisted Noncollinear Electro-Optic Sampling. Physical Review Applied, 2019, 12, .	3.8	12
21	Fourier-Engineered Plasmonic Lattice Resonances. ACS Nano, 2022, 16, 5696-5703.	14.6	11
22	Relaxed Phase-Matching Constraints in Zero-Index Waveguides. Physical Review Letters, 2022, 128, .	7.8	11
23	Post-process wavelength tuning of silicon photonic crystal slow-light waveguides. Optics Letters, 2015, 40, 1952.	3.3	10
24	Enhanced spectral sensitivity of a chip-scale photonic-crystal slow-light interferometer. Optics Letters, 2016, 41, 1431.	3.3	10
25	Nonlinear photonics on-a-chip in III-V semiconductors: quest for promising material candidates. Applied Optics, 2017, 56, 5532.	1.8	10
26	Demonstration of optical nonlinearity in InGaAsP/InP passive waveguides. Optical Materials, 2018, 84, 524-530.	3.6	9
27	Tunable four-wave mixing in AlGaAs waveguides of three different geometries. Optics Communications, 2021, 479, 126450.	2.1	9
28	Propagation of broadband THz pulses: effects of dispersion, diffraction and time-varying nonlinear refraction. Optics Express, 2020, 28, 3237.	3.4	9
29	Hyperpolarizability of Plasmonic Meta-Atoms in Metasurfaces. Nano Letters, 2021, 21, 51-59.	9.1	9
30	Broadband and High-Sensitivity Time-Resolved THz System Using Grating-Assisted Tilted-Pulse-Front Phase Matching. Advanced Optical Materials, 2022, 10, 2101136.	7.3	8
31	THz plasmonic metasurface based on a periodic array of InSb metamolecules with narrow resonances. Optics Communications, 2022, 508, 127805.	2.1	7
32	Geometry-dependent two-photon absorption followed by free-carrier absorption in AlGaAs waveguides. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 3765.	2.1	3
33	Cross-polarized surface lattice resonances in a rectangular lattice plasmonic metasurface. Optics Letters, 2022, 47, 2105.	3.3	3
34	Aluminium gallium arsenide waveguide designs for efficient four-wave mixing. , 2015, , .		1
35	Gallium nitride on gallium oxide substrate for integrated nonlinear optics. , 2017, , .		1
36	Efficient Nonlinear Metasurfaces using Multiresonant High-Q Plasmonic Arrays. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
37	GaN waveguides for on-chip quantum sources. , 2020, , .		1
38	The effects of local fields on laser gain of composite optical materials. , 2011, , .		0
39	Multi-Resonant High-Q Plasmonic Metasurface. , 2019, , .		0
40	Towards Efficient Nonlinear Plasmonic Metasurfaces. , 2019, , .		0
41	Plasmonic metasurfaces with high-Q nanocavities. , 2020, , .		0
42	Nonlinear Response of Water Vapour at THz Frequencies. , 2020, , .		0
43	Engineering Local Fields in Nonlinear Plasmonic Metasurfaces -INVITED. EPJ Web of Conferences, 2020, 238, 11002.	0.3	0
44	THz ultra-narrow resonance metasurface based on InSb metamolecules. , 2021, , .		0
45	Observation of an extremely large nonlinear response in crystalline quartz in THz regime. , 2022, , .		0