

# Ksenia Dolgaleva

## List of Publications by Year in descending order

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45  
papers

986  
citations

586496

16  
h-index

488211

31  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1201  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband and High-Sensitivity Time-Resolved THz System Using Grating-Assisted Tilted-Pulse-Front Phase Matching. <i>Advanced Optical Materials</i> , 2022, 10, 2101136.	3.6	8
2	THz plasmonic metasurface based on a periodic array of InSb metamolecules with narrow resonances. <i>Optics Communications</i> , 2022, 508, 127805.	1.0	7
3	Fourier-Engineered Plasmonic Lattice Resonances. <i>ACS Nano</i> , 2022, 16, 5696-5703.	7.3	11
4	Observation of an extremely large nonlinear response in crystalline quartz in THz regime. , 2022, , .		0
5	Cross-polarized surface lattice resonances in a rectangular lattice plasmonic metasurface. <i>Optics Letters</i> , 2022, 47, 2105.	1.7	3
6	Relaxed Phase-Matching Constraints in Zero-Index Waveguides. <i>Physical Review Letters</i> , 2022, 128, .	2.9	11
7	AlGaAs Nonlinear Integrated Photonics. <i>Micromachines</i> , 2022, 13, 991.	1.4	15
8	Tunable four-wave mixing in AlGaAs waveguides of three different geometries. <i>Optics Communications</i> , 2021, 479, 126450.	1.0	9
9	Ultra-high-Q resonances in plasmonic metasurfaces. <i>Nature Communications</i> , 2021, 12, 974.	5.8	212
10	Terahertz Nonlinear Spectroscopy of Water Vapor. <i>ACS Photonics</i> , 2021, 8, 1683-1688.	3.2	17
11	Geometry-dependent two-photon absorption followed by free-carrier absorption in AlGaAs waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 3765.	0.9	3
12	Hyperpolarizability of Plasmonic Meta-Atoms in Metasurfaces. <i>Nano Letters</i> , 2021, 21, 51-59.	4.5	9
13	Giant Asymmetric Second-Harmonic Generation in Bianisotropic Metasurfaces Based on Bound States in the Continuum. <i>ACS Photonics</i> , 2021, 8, 3234-3240.	3.2	18
14	THz ultra-narrow resonance metasurface based on InSb metamolecules. , 2021, , .		0
15	GaN waveguides for on-chip quantum sources. , 2020, , .		1
16	Plasmonic metasurfaces with high-Q nanocavities. , 2020, , .		0
17	Propagation of broadband THz pulses: effects of dispersion, diffraction and time-varying nonlinear refraction. <i>Optics Express</i> , 2020, 28, 3237.	1.7	9
18	Ultrafast modulation of the spectral filtering properties of a THz metasurface. <i>Optics Express</i> , 2020, 28, 20296.	1.7	17

#	ARTICLE	IF	CITATIONS
19	Nonlinear Response of Water Vapour at THz Frequencies. , 2020, , .		0
20	Engineering Local Fields in Nonlinear Plasmonic Metasurfaces -INVITED. EPJ Web of Conferences, 2020, 238, 11002.	0.1	0
21	Efficient Nonlinear Metasurfaces using Multiresonant High-Q Plasmonic Arrays. , 2019, , .		1
22	Multiresonant High-Q Plasmonic Metasurfaces. Nano Letters, 2019, 19, 6429-6434.	4.5	63
23	Enhanced Terahertz Detection Efficiency via Grating-Assisted Noncollinear Electro-Optic Sampling. Physical Review Applied, 2019, 12, .	1.5	12
24	Multi-Resonant High-Q Plasmonic Metasurface. , 2019, , .		0
25	Towards Efficient Nonlinear Plasmonic Metasurfaces. , 2019, , .		0
26	Efficient nonlinear metasurfaces by using multiresonant high-Q plasmonic arrays. Journal of the Optical Society of America B: Optical Physics, 2019, 36, E30.	0.9	39
27	Demonstration of optical nonlinearity in InGaAsP/InP passive waveguides. Optical Materials, 2018, 84, 524-530.	1.7	9
28	Using surface lattice resonances to engineer nonlinear optical processes in metal nanoparticle arrays. Physical Review A, 2018, 97, .	1.0	41
29	Fabrication and optical characterization of GaN waveguides on (1101)-oriented $\text{In}^{2-}\text{Ga}_2\text{O}_3$ . Optical Materials Express, 2018, 8, 88.	1.6	17
30	Gallium nitride on gallium oxide substrate for integrated nonlinear optics. , 2017, , .		1
31	Nonlinear photonics on-a-chip in III-V semiconductors: quest for promising material candidates. Applied Optics, 2017, 56, 5532.	0.9	10
32	Ultra-strong polarization dependence of surface lattice resonances with out-of-plane plasmon oscillations. Optics Express, 2016, 24, 28279.	1.7	47
33	Enhanced spectral sensitivity of a chip-scale photonic-crystal slow-light interferometer. Optics Letters, 2016, 41, 1431.	1.7	10
34	Post-process wavelength tuning of silicon photonic crystal slow-light waveguides. Optics Letters, 2015, 40, 1952.	1.7	10
35	Tuneable four-wave mixing in AlGaAs nanowires. Optics Express, 2015, 23, 22477.	1.7	25
36	Prediction of an extremely large nonlinear refractive index for crystals at terahertz frequencies. Physical Review A, 2015, 92, .	1.0	52

#	ARTICLE	IF	CITATIONS
37	Aluminium gallium arsenide waveguide designs for efficient four-wave mixing. , 2015, , .		1
38	Continuous-wave quasi-phase-matched waveguide correlated photon pair source on a IIIâ€V chip. Applied Physics Letters, 2013, 103, .	1.5	30
39	Local-field effects in nanostructured photonic materials. Advances in Optics and Photonics, 2012, 4, 1.	12.1	82
40	Optical frequency conversion in integrated devices [Invited]. Journal of the Optical Society of America B: Optical Physics, 2011, 28, A67.	0.9	31
41	Compact highly-nonlinear AlGaAs waveguides for efficient wavelength conversion. Optics Express, 2011, 19, 12440.	1.7	63
42	Integrated optical temporal Fourier transformer based on a chirped Bragg grating waveguide. Optics Letters, 2011, 36, 4416.	1.7	19
43	The effects of local fields on laser gain of composite optical materials. , 2011, , .		0
44	Broadband self-phase modulation, cross-phase modulation, and four-wave mixing in 9-mm-long AlGaAs waveguides. Optics Letters, 2010, 35, 4093.	1.7	26
45	Observation of a Microscopic Cascaded Contribution to the Fifth-Order Nonlinear Susceptibility. Physical Review Letters, 2009, 103, 113902.	2.9	47