

# Arseniy I Kuznetsov

## List of Publications by Citations

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84  
papers

7,886  
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39  
h-index

88  
g-index

105  
ext. papers

9,637  
ext. citations

8.5  
avg, IF

6.28  
L-index

#	Paper	IF	Citations
84	Optically resonant dielectric nanostructures. <i>Science</i> , <b>2016</b> , 354,	33.3	1434
83	Magnetic light. <i>Scientific Reports</i> , <b>2012</b> , 2, 492	4.9	762
82	Directional visible light scattering by silicon nanoparticles. <i>Nature Communications</i> , <b>2013</b> , 4, 1527	17.4	746
81	Nonradiating anapole modes in dielectric nanoparticles. <i>Nature Communications</i> , <b>2015</b> , 6, 8069	17.4	457
80	High-transmission dielectric metasurface with 2 $\pi$ phase control at visible wavelengths. <i>Laser and Photonics Reviews</i> , <b>2015</b> , 9, 412-418	8.3	421
79	Magnetic and electric hotspots with silicon nanodimers. <i>Nano Letters</i> , <b>2015</b> , 15, 2137-42	11.5	291
78	Directional lasing in resonant semiconductor nanoantenna arrays. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 1042-1047	28.7	217
77	A Metalens with a Near-Unity Numerical Aperture. <i>Nano Letters</i> , <b>2018</b> , 18, 2124-2132	11.5	212
76	Laser fabrication of large-scale nanoparticle arrays for sensing applications. <i>ACS Nano</i> , <b>2011</b> , 5, 4843-9	16.7	198
75	Phase-only transmissive spatial light modulator based on tunable dielectric metasurface. <i>Science</i> , <b>2019</b> , 364, 1087-1090	33.3	193
74	Printing Beyond sRGB Color Gamut by Mimicking Silicon Nanostructures in Free-Space. <i>Nano Letters</i> , <b>2017</b> , 17, 7620-7628	11.5	169
73	Generalized Brewster effect in dielectric metasurfaces. <i>Nature Communications</i> , <b>2016</b> , 7, 10362	17.4	164
72	Dynamic Beam Switching by Liquid Crystal Tunable Dielectric Metasurfaces. <i>ACS Photonics</i> , <b>2018</b> , 5, 1742-1748	15.0	150
71	Optimum Forward Light Scattering by Spherical and Spheroidal Dielectric Nanoparticles with High Refractive Index. <i>ACS Photonics</i> , <b>2015</b> , 2, 993-999	6.3	130
70	Femtosecond laser ablation of polymeric substrates for the fabrication of microfluidic channels. <i>Applied Surface Science</i> , <b>2011</b> , 257, 6243-6250	6.7	127
69	Noninterleaved Metasurface for (2-1) Spin- and Wavelength-Encoded Holograms. <i>Nano Letters</i> , <b>2018</b> , 18, 8016-8024	11.5	125
68	Silicon Nanostructures for Bright Field Full Color Prints. <i>ACS Photonics</i> , <b>2017</b> , 4, 1913-1919	6.3	122

67	Nanostructuring of thin gold films by femtosecond lasers. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 94, 221-230	2.6	104
66	Laser-induced jet formation and droplet ejection from thin metal films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 106, 479-487	2.6	93
65	Laser-induced backward transfer of gold nanodroplets. <i>Optics Express</i> , <b>2009</b> , 17, 18820-5	3.3	92
64	Laser fabrication of 2D and 3D metal nanoparticle structures and arrays. <i>Optics Express</i> , <b>2010</b> , 18, 21198-203	3.93	85
63	Asymmetric Nanoantennas for Ultrahigh Angle Broadband Visible Light Bending. <i>Nano Letters</i> , <b>2017</b> , 17, 6267-6272	11.5	83
62	Traditional and emerging materials for optical metasurfaces. <i>Nanophotonics</i> , <b>2017</b> , 6, 452-471	6.3	81
61	Hybrid anapole modes of high-index dielectric nanoparticles. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	72
60	Polarization control over electric and magnetic dipole resonances of dielectric nanoparticles on metallic films. <i>Laser and Photonics Reviews</i> , <b>2016</b> , 10, 799-806	8.3	67
59	Resonant Light Guiding Along a Chain of Silicon Nanoparticles. <i>Nano Letters</i> , <b>2017</b> , 17, 3458-3464	11.5	54
58	Short laser pulse nanostructuring of metals: direct comparison of molecular dynamics modeling and experiment. <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 111, 675-687	2.6	53
57	New photoactive hybrid organic/inorganic materials based on titanium-oxo-PHEMA nanocomposites exhibiting mixed valence properties. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 3380		52
56	Probing magnetic and electric optical responses of silicon nanoparticles. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 171110	3.4	50
55	Room-Temperature Lasing in Colloidal Nanoplatelets via Mie-Resonant Bound States in the Continuum. <i>Nano Letters</i> , <b>2020</b> , 20, 6005-6011	11.5	50
54	Suppression of scattering for small dielectric particles: anapole mode and invisibility. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2017</b> , 375,	3	48
53	Plasmon-enhanced sub-wavelength laser ablation: plasmonic nanojets. <i>Advanced Materials</i> , <b>2012</b> , 24, OP29-35	24	48
52	Light-induced charge separation and storage in titanium oxide gels. <i>Physical Review E</i> , <b>2005</b> , 71, 021403	2.4	48
51	Split-ball resonator as a three-dimensional analogue of planar split-rings. <i>Nature Communications</i> , <b>2014</b> , 5, 3104	17.4	44
50	Laser-induced transfer of metallic nanodroplets for plasmonics and metamaterial applications. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2009</b> , 26, B130	1.7	43

49	Laser-induced photopatterning of organic-inorganic TiO <sub>2</sub> -based hybrid materials with tunable interfacial electron transfer. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 1248-57	3.6	43
48	Continuous Wave Second Harmonic Generation Enabled by Quasi-Bound-States in the Continuum on Gallium Phosphide Metasurfaces. <i>Nano Letters</i> , <b>2020</b> , 20, 8745-8751	11.5	43
47	Chemical activity of photoinduced Ti <sup>3+</sup> centers in titanium oxide gels. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 435-41	3.4	41
46	Nanoscale Generation of White Light for Ultrabroadband Nanospectroscopy. <i>Nano Letters</i> , <b>2018</b> , 18, 535-539	11.5	39
45	Ultrahigh-efficiency aqueous flat nanocrystals of CdSe/CdS@CdZnS colloidal core/crown@alloyed-shell quantum wells. <i>Nanoscale</i> , <b>2018</b> , 11, 301-310	7.7	36
44	Lasing Action in Single Subwavelength Particles Supporting Supercavity Modes. <i>ACS Nano</i> , <b>2020</b> , 14, 7338-7346	16.7	34
43	Highly Directive Hybrid Metal-Dielectric Yagi-Uda Nanoantennas. <i>ACS Nano</i> , <b>2018</b> , 12, 8616-8624	16.7	34
42	Extinction of photo-induced Ti <sup>3+</sup> centres in titanium oxide gels and gel-based oxo-PHEMA hybrids. <i>Chemical Physics Letters</i> , <b>2006</b> , 429, 523-527	2.5	32
41	Kinetics of UV-induced darkening of titanium-oxide gels. <i>Applied Surface Science</i> , <b>2005</b> , 248, 86-90	6.7	30
40	Efficient ultrafast all-optical modulation in a nonlinear crystalline gallium phosphide nanodisk at the anapole excitation. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	30
39	High-efficiency and low-loss gallium nitride dielectric metasurfaces for nanophotonics at visible wavelengths. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 221101	3.4	29
38	Beyond the hybridization effects in plasmonic nanoclusters: diffraction-induced enhanced absorption and scattering. <i>Small</i> , <b>2014</b> , 10, 576-83	11	29
37	Quantum Spectroscopy of Plasmonic Nanostructures. <i>Physical Review X</i> , <b>2014</b> , 4,	9.1	27
36	Control of LED Emission with Functional Dielectric Metasurfaces. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 1900235	8.3	27
35	Enhanced photonic spin Hall effect with subwavelength topological edge states. <i>Laser and Photonics Reviews</i> , <b>2016</b> , 10, 656-664	8.3	25
34	Optical properties of spherical gold mesoparticles. <i>Applied Physics B: Lasers and Optics</i> , <b>2012</b> , 106, 841-848		24
33	Use of harmonics for femtosecond micromachining in pure dielectrics. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 1567-1576	2.5	24
32	Active and Tunable Nanophotonics With Dielectric Nanoantennas. <i>Proceedings of the IEEE</i> , <b>2020</b> , 108, 749-771	14.3	24

31	Efficient visible light modulation based on electrically tunable all dielectric metasurfaces embedded in thin-layer nematic liquid crystals. <i>Scientific Reports</i> , <b>2019</b> , 9, 8673	4.9	23
30	Channeling of microwave radiation in a double line containing a plasma filament produced by intense femtosecond laser pulses in air. <i>Quantum Electronics</i> , <b>2009</b> , 39, 985-988	1.8	16
29	Laser imprinting of 3D structures in gel-based titanium oxide organic-inorganic hybrids. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 84, 27-30	2.6	16
28	Direct observation of resonance scattering patterns in single silicon nanoparticles. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 091108	3.4	15
27	Quantum interference in the presence of a resonant medium. <i>Scientific Reports</i> , <b>2017</b> , 7, 11444	4.9	15
26	Fabrication of large-area 3D optical fishnet metamaterial by laser interference lithography. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 123116	3.4	15
25	Collective Mie Resonances for Directional On-Chip Nanolasers. <i>Nano Letters</i> , <b>2020</b> , 20, 5655-5661	11.5	13
24	Magnetic Light: Optical Magnetism of Dielectric Nanoparticles. <i>Optics and Photonics News</i> , <b>2012</b> , 23, 35	1.9	13
23	Fabrication of Monodisperse Colloids of Resonant Spherical Silicon Nanoparticles: Applications in Optical Trapping and Printing. <i>ACS Photonics</i> , <b>2019</b> , 6, 2141-2148	6.3	10
22	All-Optical Modulation in Chains of Silicon Nanoantennas. <i>ACS Photonics</i> , <b>2020</b> , 7, 1001-1008	6.3	9
21	Generation of even and odd high harmonics in resonant metasurfaces using single and multiple ultra-intense laser pulses. <i>Nature Communications</i> , <b>2021</b> , 12, 4185	17.4	8
20	Local Crystallization of a Resonant Amorphous Silicon Nanoparticle for the Implementation of Optical Nanothermometry. <i>JETP Letters</i> , <b>2018</b> , 107, 699-704	1.2	7
19	All-Dielectric Optical Nanoantennas <b>2014</b> ,		6
18	Nanoscale mapping of optically inaccessible bound-states-in-the-continuum.. <i>Light: Science and Applications</i> , <b>2022</b> , 11, 20	16.7	6
17	Low loss waveguiding and slow light modes in coupled subwavelength silicon Mie resonators. <i>Nanoscale</i> , <b>2020</b> , 12, 21713-21718	7.7	6
16	Imaging Properties of Large Field-of-View Quadratic Metalenses and Their Applications to Fingerprint Detection. <i>ACS Photonics</i> , <b>2021</b> , 8, 1457-1468	6.3	5
15	Silicon Nanoantenna Mix Arrays for a Trifecta of Quantum Emitter Enhancements. <i>Nano Letters</i> , <b>2021</b> , 21, 4853-4860	11.5	5
14	Plasmonic nanoparticle lithography: Fast resist-free laser technique for large-scale sub-50 nm hole array fabrication. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 223101	3.4	5

13	Large-Scale Huygens-Metasurfaces for Holographic 3D Near-Eye Displays. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000538	8.3	5
12	New hybrid organic-inorganic materials based on a poly(titanium oxide) gel with efficient UV-induced separation of charges. <i>Doklady Physics</i> , <b>2006</b> , 51, 103-105	0.8	4
11	Control of scattering by isolated dielectric nanoantennas <b>2020</b> , 73-108		4
10	Non-linear interferometry with infrared metasurfaces. <i>Nanophotonics</i> , <b>2021</b> , 10, 1775-1784	6.3	4
9	Bound State in the Continuum in Nanoantenna-Coupled Slab Waveguide Enables Low-Threshold Quantum-Dot Lasing. <i>Nano Letters</i> , <b>2021</b> , 21, 9754-9760	11.5	3
8	One-Dimensional High-Q Silicon Nanoparticle Chain Resonators for Refractive Index Sensing. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 3170-3176	5.6	3
7	High resolution multispectral spatial light modulators based on tunable Fabry-Perot nanocavities.. <i>Light: Science and Applications</i> , <b>2022</b> , 11, 141	16.7	3
6	Theoretical modelling and leakage radiation microscopy of surface plasmon polariton excitation and scattering on laser fabricated surface structures <b>2010</b> ,		1
5	Characterization of localized field enhancements in laser fabricated gold needle nanostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 185	1.7	1
4	Silicon Nanoparticles for Waveguiding <b>2015</b> ,		1
3	Second harmonic generation in gallium phosphide nano-waveguides. <i>Optics Express</i> , <b>2021</b> , 29, 10307-10320	3.9	1
2	Alkoxysilane effect in hybrid material: A comparison of pHEMA-TiO <sub>2</sub> and pMAPTMS-TiO <sub>2</sub> nanoparticulate hybrids. <i>Materials Research Bulletin</i> , <b>2019</b> , 114, 130-137	5.1	1
1	Plasmonics: Plasmon-Enhanced Sub-Wavelength Laser Ablation: Plasmonic Nanojets (Adv. Mater. 10/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, OP28-OP28	24	