

Anton K Samusev

List of Publications by Year in descending order

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68
papers

1,756
citations

393982

19
h-index

264894

42
g-index

69
all docs

69
docs citations

69
times ranked

1926
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic and Electric Hotspots with Silicon Nanodimers. Nano Letters, 2015, 15, 2137-2142.	4.5	361
2	Transition from Optical Bound States in the Continuum to Leaky Resonances: Role of Substrate and Roughness. ACS Photonics, 2017, 4, 723-727.	3.2	221
3	Resonant Raman scattering from silicon nanoparticles enhanced by magnetic response. Nanoscale, 2016, 8, 9721-9726.	2.8	128
4	Nonlinear polaritons in a monolayer semiconductor coupled to optical bound states in the continuum. Light: Science and Applications, 2020, 9, 56.	7.7	124
5	Laser fabrication of crystalline silicon nanoresonators from an amorphous film for low-loss all-dielectric nanophotonics. Nanoscale, 2016, 8, 5043-5048.	2.8	103
6	Polarization control over electric and magnetic dipole resonances of dielectric nanoparticles on metallic films. Laser and Photonics Reviews, 2016, 10, 799-806.	4.4	81
7	Mapping plasmonic topological states at the nanoscale. Nanoscale, 2015, 7, 11904-11908.	2.8	78
8	Probing magnetic and electric optical responses of silicon nanoparticles. Applied Physics Letters, 2015, 106, .	1.5	62
9	Chirality Driven by Magnetic Dipole Response for Demultiplexing of Surface Waves. Laser and Photonics Reviews, 2017, 11, 1700168.	4.4	52
10	Nanoscale Generation of White Light for Ultrabroadband Nanospectroscopy. Nano Letters, 2018, 18, 535-539.	4.5	52
11	Enhanced photonic spin Hall effect with subwavelength topological edge states. Laser and Photonics Reviews, 2016, 10, 656-664.	4.4	44
12	Magnetic dipole radiation tailored by substrates: numerical investigation. Optics Express, 2014, 22, 10693.	1.7	43
13	Enhancement of artificial magnetism via resonant bianisotropy. Scientific Reports, 2016, 6, 22546.	1.6	42
14	Experimental observation of topological Z2 exciton-polaritons in transition metal dichalcogenide monolayers. Nature Communications, 2021, 12, 4425.	5.8	42
15	Directly grown crystalline gallium phosphide on sapphire for nonlinear all-dielectric nanophotonics. Applied Physics Letters, 2021, 118, .	1.5	37
16	Polarization-resolved characterization of plasmon waves supported by an anisotropic metasurface. Optics Express, 2017, 25, 32631.	1.7	28
17	Steering of Guided Light with Dielectric Nanoantennas. ACS Photonics, 2020, 7, 680-686.	3.2	28
18	Dimensionality effects on the optical diffraction from opal-based photonic structures. Physical Review B, 2013, 87, .	1.1	22

#	ARTICLE	IF	CITATIONS
19	Demonstration of unusual nanoantenna array modes through direct reconstruction of the near-field signal. <i>Nanoscale</i> , 2015, 7, 765-770.	2.8	19
20	Measurement of local optomechanical properties of a direct bandgap 2D semiconductor. <i>APL Materials</i> , 2019, 7, .	2.2	18
21	Two-dimensional light diffraction from thin opal films. <i>Physics of the Solid State</i> , 2011, 53, 1056-1061.	0.2	17
22	Direct Imaging of Isofrequency Contours of Guided Modes in Extremely Anisotropic All-Dielectric Metasurface. <i>ACS Photonics</i> , 2019, 6, 510-515.	3.2	14
23	Mapping electromagnetic fields near a subwavelength hole. <i>JETP Letters</i> , 2014, 99, 622-626.	0.4	13
24	Broadband antireflective coatings based on two-dimensional arrays of subwavelength nanopores. <i>Applied Physics Letters</i> , 2015, 106, 171913.	1.5	13
25	Optical properties of woodpile photonic crystals produced by three-dimensional laser lithography. <i>Physics of the Solid State</i> , 2015, 57, 2494-2501.	0.2	10
26	Resonant Optical Properties of Single Out-Diffused Silver Nanoislands. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26692-26697.	1.5	10
27	Invisibility of a finite dielectric cylinder under Fano resonance conditions. <i>Physics of the Solid State</i> , 2015, 57, 1991-1996.	0.2	9
28	Crucial Role of Metal Surface Morphology in Photon Emission from a Tunnel Junction at Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8813-8817.	1.5	8
29	Scanning Tunneling Microscopy-Induced Light Emission and $\langle i \rangle \langle V \rangle$ Study of Optical Near-Field Properties of Single Plasmonic Nanoantennas. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 501-507.	2.1	7
30	Nanoscale Gallium Phosphide Epilayers on Sapphire for Low-Loss Visible Nanophotonics. <i>ACS Applied Nano Materials</i> , 2022, 5, 8846-8858.	2.4	7
31	Dark-field imaging as a noninvasive method for characterization of whispering gallery modes in microdisk cavities. <i>Optics Letters</i> , 2016, 41, 749.	1.7	6
32	Visualization of Isofrequency Contours of Strongly Localized Waveguide Modes in Planar Dielectric Structures. <i>JETP Letters</i> , 2018, 107, 10-14.	0.4	6
33	Indirect Detection of the Light Emission in the Local Tunnel Junction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900607.	1.2	6
34	Selective stop-band switching in two-dimensional multicomponent photonic crystals. <i>Physics of the Solid State</i> , 2009, 51, 518-524.	0.2	5
35	Selective control of light beams in diffraction experiments on synthetic opals. <i>Physics of the Solid State</i> , 2011, 53, 1415-1424.	0.2	5
36	Microwave platform as a valuable tool for characterization of nanophotonic devices. <i>Scientific Reports</i> , 2016, 6, 35516.	1.6	5

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37	Nanoscale Electrically Driven Light Source Based on Hybrid Semiconductor/Metal Nanoantenna. Journal of Physical Chemistry Letters, 2022, 13, 4612-4620.	2.1	5
38	Single-stage fabrication of low-loss dielectric nanoresonators from high-loss material. Journal of Physics: Conference Series, 2016, 690, 012020.	0.3	4
39	Small-angle X-ray diffraction investigation of twinned opal-like structures. Physics of the Solid State, 2012, 54, 2073-2082.	0.2	3
40	Optical bound state in the continuum in the one-dimensional photonic crystal slab: Theory and experiment. , 2016, , .		2
41	Direct Femtosecond Laser Writing of Optical Nanoresonators. Journal of Physics: Conference Series, 2016, 690, 012021.	0.3	2
42	2<i>Ï€</i> steering of surface plasmon polaritons with silicon nanoantennas. Journal of Physics: Conference Series, 2018, 1092, 012140.	0.3	2
43	Spectral Characteristics and Time Dynamics of Tunable Acoustic Resonators in the Strong Coupling Regime. JETP Letters, 2021, 113, 547-553.	0.4	2
44	Eigenmode analysis of the waveguide-plasmon structure based on a-Si1-C :H layer with 1D gold grating. Photonics and Nanostructures - Fundamentals and Applications, 2021, 48, 100975.	1.0	2
45	Peculiarities of the band structure of multi-component photonic crystals with different dimensions. Journal of Physics Condensed Matter, 2010, 22, 115401.	0.7	1
46	Control of surface plasmon resonance in out-diffused silver nanoislands for surface-enhanced Raman scattering. Journal of Physics: Conference Series, 2015, 661, 012034.	0.3	1
47	Antireflective properties of periodic nanopore arrays. , 2015, , .		1
48	Dark-field spectroscopy of plasmon resonance in metal nanoislands: effect of shape and light polarization. Journal of Physics: Conference Series, 2016, 769, 012040.	0.3	1
49	Probing Optical Losses and Dispersion of Fully Guided Waves through Critical Evanescent Coupling. JETP Letters, 2021, 113, 780-786.	0.4	1
50	Light and Small-Angle X-Ray Diffraction from Opal-Like Structures. Series in Optics and Optoelectronics, 2012, , 275-300.	0.0	1
51	Measuring full complex dispersion of guided modes and surface waves in planar photonic structures. AIP Conference Proceedings, 2020, , .	0.3	1
52	<title>Bragg diffraction of light as a powerful tool in the study of photonic crystals</title>. , 2006, , .		0
53	Two-dimensional and 3D multi-component photonic crystals: theory and experiment. , 2008, , .		0
54	Disorder-induced Fano resonance in 1D photonic crystals. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
55	Optical and microradian x-ray diffraction from opal-like films: Transition from 2D to 3D regimes. , 2011, , .		0
56	Optical diffraction from opal-based photonic structures: transition from 2D to 3D regimes. , 2012, , .		0
57	Observation of optical domino modes in arrays of non-resonant plasmonic nanoantennas. , 2014, , .		0
58	Dark-field spectroscopy of whispering gallery mode cavities. , 2015, , .		0
59	Direct measurements of magnetic and electric optical responses from silicon nanoparticles. , 2015, , .		0
60	Resonant optical properties of crystalline silicon nanoparticles fabricated by laser ablation-based methods. AIP Conference Proceedings, 2017, , .	0.3	0
61	Nanoscale optical high-temperature sensor. , 2017, , .		0
62	Indirect observation of the light emission in the tunnel junction with metal nanodisk. AIP Conference Proceedings, 2020, , .	0.3	0
63	Measurement of local optomechanical properties of MoSe ₂ monolayers. AIP Conference Proceedings, 2020, , .	0.3	0
64	From high-Q magnetic dipole scattering to broadband electric field localization by silicon nanoparticle on metal. , 2016, , .		0
65	Probing guided monolayer semiconductor polaritons below the light line. Journal of Physics: Conference Series, 2021, 2015, 012069.	0.3	0
66	Up-conversion photoluminescence specificity of a hybrid sponge nanostructures. Journal of Physics: Conference Series, 2021, 2015, 012082.	0.3	0
67	Spatial mapping of optical modes in plasmonic nanoantenna by scanning tunneling microscopy. Journal of Physics: Conference Series, 2021, 2015, 012139.	0.3	0
68	STM Light Emission and I(V) study of single gold nanoantenna. Journal of Physics: Conference Series, 2021, 2086, 012103.	0.3	0