

Viktoriia E Babicheva

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

1,616

citations

24

h-index

38

g-index

101

ext. papers

2,033

ext. citations

3.9

avg, IF

5.61

L-index

#	Paper	IF	Citations
66	Applicability of multipole decomposition to plasmonic- and dielectric-lattice resonances.. <i>Journal of Chemical Physics</i> , 2022 , 156, 114104	3.9	4
65	Multipole lattice effects in high refractive index metasurfaces. <i>Journal of Applied Physics</i> , 2021 , 129, 040902	3.2	21
64	Semiconductor nanopillars for programmable directional lasing emissions. <i>MRS Advances</i> , 2021 , 6, 234-240	0.7	1
63	Lattice effect for enhanced hot-electron generation in nanoelectrodes. <i>Optical Materials Express</i> , 2021 , 11, 3232	2.6	3
62	Nanostructured Tungsten Disulfide WS ₂ as Mie Scatterers and Nanoantennas. <i>MRS Advances</i> , 2020 , 5, 1819-1826	0.7	1
61	Second harmonic generation in metasurfaces with multipole resonant coupling. <i>Nanophotonics</i> , 2020 , 9, 3545-3556	6.3	11
60	Structural Colors Enabled by Lattice Resonance on Silicon Nitride Metasurfaces. <i>ACS Nano</i> , 2020 , 14, 5678-5685	16.7	33
59	Multipole analysis of dielectric metasurfaces composed of nonspherical nanoparticles and lattice invisibility effect. <i>Physical Review B</i> , 2019 , 99,	3.3	65
58	Analytical model of resonant electromagnetic dipole-quadrupole coupling in nanoparticle arrays. <i>Physical Review B</i> , 2019 , 99,	3.3	46
57	Lattice Resonances in Transdimensional WS ₂ Nanoantenna Arrays. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2005	2.6	7
56	Multipole Resonances in Transdimensional Lattices of Plasmonic and Silicon Nanoparticles. <i>MRS Advances</i> , 2019 , 4, 713-722	0.7	10
55	Collective effects and coupling phenomena in resonant optical metasurfaces: introduction. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, CEC1	1.7	6
54	Transdimensional photonic lattices with Mie-resonant nanoantennas 2019 ,		1
53	Transition Metal Dichalcogenide Nanoantennas Lattice. <i>MRS Advances</i> , 2019 , 4, 2283-2288	0.7	2
52	Lattice Zenneck Modes on Subwavelength Antennas. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800267	8.3	7
51	Metasurfaces with Electric Quadrupole and Magnetic Dipole Resonant Coupling. <i>ACS Photonics</i> , 2018 , 5, 2022-2033	6.3	55
50	Directional scattering by the hyperbolic-medium antennas and silicon particles. <i>MRS Advances</i> , 2018 , 3, 1913-1917	0.7	12

49	Nonradiating Silicon Nanoantenna Metasurfaces as Narrowband Absorbers. <i>ACS Photonics</i> , 2018 , 5, 2596-2601	6.3	24
48	Near-Field Surface Waves in Few-Layer MoS ₂ . <i>ACS Photonics</i> , 2018 , 5, 2106-2112	6.3	24
47	Resonant suppression of light transmission in high-refractive-index nanoparticle metasurfaces. <i>Optics Letters</i> , 2018 , 43, 5186-5189	3	18
46	Lattice effect in Mie-resonant dielectric nanoparticle array under oblique light incidence. <i>MRS Communications</i> , 2018 , 8, 1455-1462	2.7	25
45	Lattice effect influence on the electric and magnetic dipole resonance overlap in a disk array. <i>Nanophotonics</i> , 2018 , 7, 1663-1668	6.3	38
44	Lattice Kerker effect in the array of hexagonal boron nitride antennas. <i>MRS Advances</i> , 2018 , 3, 2783-2788	7	8
43	Interplay and coupling of electric and magnetic multipole resonances in plasmonic nanoparticle lattices. <i>MRS Communications</i> , 2018 , 8, 712-717	2.7	16
42	Resonant Lattice Kerker Effect in Metasurfaces With Electric and Magnetic Optical Responses. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700132	8.3	125
41	TOWARDS UNDERSTANDING AND CONTROL OF NANOSCALE PHASE SEGREGATION IN INDIUM-GALLIUM-NITRIDE ALLOYS 2017 , 183-207		1
40	Long-range propagation of plasmon and phonon polaritons in hyperbolic-metamaterial waveguides. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 124013	1.7	17
39	Reflection compensation mediated by electric and magnetic resonances of all-dielectric metasurfaces [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, D18	1.7	48
38	Near-field edge fringes at sharp material boundaries. <i>Optics Express</i> , 2017 , 25, 23935-23944	3.3	29
37	Nanoscopy of Phase Separation in In _x Ga _{1-x} N Alloys. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23160-6	9.5	11
36	Ultrafast Dynamics of Metal Plasmons Induced by 2D Semiconductor Excitons in Hybrid Nanostructure Arrays. <i>ACS Photonics</i> , 2016 , 3, 2389-2395	6.3	34
35	Enhancement of the Purcell factor in multiperiodic hyperboliclike metamaterials. <i>Physical Review A</i> , 2016 , 93,	2.6	19
34	Nanoscopy reveals surface-metallic black phosphorus. <i>Light: Science and Applications</i> , 2016 , 5, e16162	16.7	31
33	Plasmonic and silicon spherical nanoparticle antireflective coatings. <i>Scientific Reports</i> , 2016 , 6, 22136	4.9	91
32	Bulk photoemission from metal films and nanoparticles. <i>Quantum Electronics</i> , 2015 , 45, 50-58	1.8	7

31	Hot Electron Photoemission from Plasmonic Nanostructures: The Role of Surface Photoemission and Transition Absorption. <i>ACS Photonics</i> , 2015 , 2, 1039-1048	6.3	26
30	Finite-width plasmonic waveguides with hyperbolic multilayer cladding. <i>Optics Express</i> , 2015 , 23, 9681-9333	3.3	41
29	Transparent conducting oxides for electro-optical plasmonic modulators. <i>Nanophotonics</i> , 2015 , 4, 165-185	3.3	100
28	Long-range plasmonic waveguides with hyperbolic cladding. <i>Optics Express</i> , 2015 , 23, 31109-19	3.3	38
27	Transition absorption as a mechanism of surface photoelectron emission from metals. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 570-574	2.5	4
26	Internal photoemission from plasmonic nanoparticles: comparison between surface and volume photoelectric effects. <i>Nanoscale</i> , 2014 , 6, 4716-27	7.7	36
25	Enhanced Electron Photoemission by Collective Lattice Resonances in Plasmonic Nanoparticle-Array Photodetectors and Solar Cells. <i>Plasmonics</i> , 2014 , 9, 283-289	2.4	53
24	Photonic-band-gap engineering for volume plasmon polaritons in multiscale multilayer hyperbolic metamaterials. <i>Physical Review A</i> , 2014 , 90,	2.6	51
23	Plasmonic waveguides cladded by hyperbolic metamaterials. <i>Optics Letters</i> , 2014 , 39, 4663-6	3	44
22	Giant Photogalvanic Effect in Noncentrosymmetric Plasmonic Nanoparticles. <i>Physical Review X</i> , 2014 , 4,	9.1	6
21	Electron photoemission in plasmonic nanoparticle arrays: analysis of collective resonances and embedding effects. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 929-940	2.6	12
20	Multiperiodicity in plasmonic multilayers: General description and diversity of topologies. <i>Physical Review A</i> , 2014 , 90,	2.6	14
19	Retrieval of Effective Parameters of Subwavelength Periodic Photonic Structures. <i>Crystals</i> , 2014 , 4, 417-426	4.36	8
18	CMOS Compatible Ultra-Compact Modulator 2014 ,		1
17	Bismuth ferrite as low-loss switchable material for plasmonic waveguide modulator. <i>Optics Express</i> , 2014 , 22, 28890-7	3.3	21
16	Experimental demonstration of titanium nitride plasmonic interconnects. <i>Optics Express</i> , 2014 , 22, 12238-47	3.47	65
15	Plasmonic modulator using CMOS-compatible material platform 2014 ,		1
14	Plasmonic finite-thickness metal-semiconductor-metal waveguide as ultra-compact modulator. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2013 , 11, 323-334	2.6	18

13	Plasmonic modulator based on thin metal-semiconductor-metal waveguide with gain core 2013 ,		1
12	Towards CMOS-compatible nanophotonics: ultra-compact modulators using alternative plasmonic materials. <i>Optics Express</i> , 2013 , 21, 27326-37	3.3	98
11	A plasmonic modulator based on metal-insulator-metal waveguide with barium titanate core. <i>Photonics Letters of Poland</i> , 2013 , 5,	2.1	4
10	Finite-thickness metal-semiconductor-metal waveguide as plasmonic modulator 2012 ,		2
9	Plasmonic modulator optimized by patterning of active layer and tuning permittivity. <i>Optics Communications</i> , 2012 , 285, 5500-5507	2	34
8	Plasmonic modulator based on gain-assisted metal-semiconductor-metal waveguide. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012 , 10, 389-399	2.6	24
7	Localized surface plasmon modes in a system of two interacting metallic cylinders. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 1263	1.7	9
6	Surface plasmon polariton modulator with optimized active layer 2012 ,		8
5	Anomalous transmission of electromagnetic wave through periodic arrays of subwavelength slits arranged on thin metal films. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2011 , 110, 119-123	0.7	0
4	Role of surface plasmon polaritons in anomalous transmission of an electromagnetic wave through two arrays with subwavelength slits. <i>Physics of the Solid State</i> , 2011 , 53, 804-809	0.8	1
3	Surface Plasmon Polariton Modulator with Periodic Patterning of Indium Tin Oxide Layers 2011 ,		2
2	Light passage through a film with subwavelength slits. <i>Bulletin of the Lebedev Physics Institute</i> , 2010 , 37, 309-310	0.5	
1	Role of propagating slit mode in enhanced transmission through slit arrays in a metallic films. <i>Optical and Quantum Electronics</i> , 2009 , 41, 299-313	2.4	6