

Andrey B Evlyukhin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3258213/andrey-b-evlyukhin-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

137
papers

5,636
citations

37
h-index

74
g-index

167
ext. papers

6,831
ext. citations

3.7
avg, IF

6.16
L-index

#	Paper	IF	Citations
137	Multipole Born series approach to light scattering by Mie-resonant nanoparticle structures. <i>Journal of Optics (United Kingdom)</i> , 2022 , 24, 035603	1.7	
136	Multifaceted anapole: from physics to applications [Invited]. <i>Optical Materials Express</i> , 2022 , 12, 1817	2.6	3
135	Nontrivial optical response of silicon triangular prisms. <i>Journal of Physics: Conference Series</i> , 2021 , 2015, 012111	0.3	0
134	Application of Born series for modeling of Mie-resonant nanostructures. <i>Journal of Physics: Conference Series</i> , 2021 , 2015, 012161	0.3	
133	Light focusing by silicon nanosphere structures under conditions of magnetic dipole and quadrupole resonances. <i>Journal of Physics: Conference Series</i> , 2021 , 2015, 012160	0.3	
132	Nonradiating sources for efficient wireless power transfer. <i>Nanophotonics</i> , 2021 , 10, 4399-4408	6.3	4
131	Plasmonic anapole states of active metamolecules. <i>Photonics Research</i> , 2021 , 9, 822	6	4
130	Toroidic and antitoroidic orders in hexagonal arrays of dielectric trimers: Magnetic group approach. <i>Physical Review B</i> , 2021 , 103,	3.3	5
129	Multipole lattice effects in high refractive index metasurfaces. <i>Journal of Applied Physics</i> , 2021 , 129, 040902	10.2	21
128	Anapole Meta-Atoms: Nonradiating Electric and Magnetic Sources. <i>Physical Review Letters</i> , 2021 , 127, 096804	7.4	10
127	Polarization-independent anapole response of a trimer-based dielectric metasurface. <i>Nanophotonics</i> , 2021 ,	6.3	5
126	Multipole optimization of light focusing by silicon nanosphere structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 3009	1.7	2
125	Non-Huygens invisible metasurfaces. <i>Journal of Physics: Conference Series</i> , 2020 , 1461, 012156	0.3	
124	Bianisotropy for light trapping in all-dielectric metasurfaces. <i>Physical Review B</i> , 2020 , 101,	3.3	15
123	Evolution of multipole moments in silicon nanocylinder while varying the refractive index of surrounding medium. <i>Journal of Physics: Conference Series</i> , 2020 , 1461, 012176	0.3	
122	Fractal Shaped Periodic Metal Nanostructures Atop Dielectric-Metal Substrates for SERS Applications. <i>ACS Photonics</i> , 2020 , 7, 1708-1715	6.3	9
121	Progressive Self-Boosting Anapole-Enhanced Deep-Ultraviolet Third Harmonic During Few-Cycle Laser Radiation. <i>ACS Photonics</i> , 2020 , 7, 1655-1661	6.3	8

120	Magnetic Octupole Response of Dielectric Quadrumers. <i>Laser and Photonics Reviews</i> , 2020 , 14, 19003318.3	8.3	21
119	Evolutionary and genetic algorithms for design of metadevices working on electric dipole resonance. <i>Journal of Physics: Conference Series</i> , 2020 , 1461, 012011	0.3	
118	Engineering Nanoparticles with Pure High-Order Multipole Scattering. <i>ACS Photonics</i> , 2020 , 7, 1067-1075.3	5.3	14
117	Simultaneous suppression of forward and backward light scattering by high-index nanoparticles based on Kerker-like effects. <i>Journal of Physics: Conference Series</i> , 2020 , 1461, 012158	0.3	
116	Multipole analysis of periodic array of rotated silicon cubes. <i>Journal of Physics: Conference Series</i> , 2020 , 1461, 012177	0.3	
115	Homogeneous enhancement of near-fields in all-dielectric metasurfaces with cluster-based unit cells. <i>Optics Letters</i> , 2020 , 45, 1527-1530	3	9
114	Lightweight metasurface mirror of silicon nanospheres [Invited]. <i>Optical Materials Express</i> , 2020 , 10, 2706	2.6	4
113	Seeing the Unseen: Experimental Observation of Magnetic Anapole State Inside a High-Index Dielectric Particle. <i>Annalen Der Physik</i> , 2020 , 532, 2000293	2.6	8
112	Antitoroidic and Toroidic Orders in All-Dielectric Metasurfaces for Optical Near-Field Manipulation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11315-11325	5.6	10
111	Multipole decompositions for directional light scattering. <i>Physical Review B</i> , 2019 , 100,	3.3	32
110	Nano-Antennas Based on Silicon-Gold Nanostructures. <i>Scientific Reports</i> , 2019 , 9, 338	4.9	11
109	Multipole analysis of dielectric metasurfaces composed of nonspherical nanoparticles and lattice invisibility effect. <i>Physical Review B</i> , 2019 , 99,	3.3	65
108	Analytical model of resonant electromagnetic dipole-quadrupole coupling in nanoparticle arrays. <i>Physical Review B</i> , 2019 , 99,	3.3	46
107	Polarization-dependent asymmetric light scattering by silicon nanopyramids and their multipoles resonances. <i>Journal of Applied Physics</i> , 2019 , 125, 173108	2.5	12
106	All-Dielectric Nanophotonics: The High-Order Toroidal Moments and Anapole States in All-Dielectric Photonics (Laser Photonics Rev. 13(5)/2019). <i>Laser and Photonics Reviews</i> , 2019 , 13, 1970025	8.3	5
105	Transverse Scattering and Generalized Kerker Effects in All-Dielectric Mie-Resonant Metaoptics. <i>Physical Review Letters</i> , 2019 , 122, 193905	7.4	79
104	Omnidirectional Surface Plasmon Polaritons Concentration in 3D Metallic Structures. <i>Plasmonics</i> , 2019 , 14, 1547-1554	2.4	1
103	Enhanced absorption in all-dielectric metasurfaces due to magnetic dipole excitation. <i>Scientific Reports</i> , 2019 , 9, 3438	4.9	37

102	The High-Order Toroidal Moments and Anapole States in All-Dielectric Photonics. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800266	8.3	76
101	Revealing Low-Radiative Modes of Nanoresonators with Internal Raman Scattering. <i>JETP Letters</i> , 2019 , 110, 25-30	1.2	5
100	Broadband forward scattering from dielectric cubic nanoantenna in lossless media. <i>Optics Express</i> , 2019 , 27, 10924-10935	3.3	37
99	Core-shell particles as efficient broadband absorbers in infrared optical range. <i>Optics Express</i> , 2019 , 27, 17474-17481	3.3	12
98	Polarization control of colors in resonant evanescent field scattering by silicon nanodisks [Invited]. <i>Optical Materials Express</i> , 2019 , 9, 151	2.6	3
97	Experimental Demonstration of Surface Plasmon Polaritons Reflection and Transmission Effects. <i>Sensors</i> , 2019 , 19,	3.8	3
96	Metasurfaces with Electric Quadrupole and Magnetic Dipole Resonant Coupling. <i>ACS Photonics</i> , 2018 , 5, 2022-2033	6.3	55
95	Femtosecond Laser Printing of Single Ge and SiGe Nanoparticles with Electric and Magnetic Optical Resonances. <i>ACS Photonics</i> , 2018 , 5, 977-983	6.3	40
94	Laser Printing of Nanoparticles 2018 , 251-268		0
93	Influence of Fabrication Methods of Gold and Silver Layers on Surface Plasmon Polaritons Propagation Length. <i>Plasmonics</i> , 2018 , 13, 1359-1366	2.4	
92	Electromagnetic properties of the Great Pyramid: First multipole resonances and energy concentration. <i>Journal of Applied Physics</i> , 2018 , 124, 034903	2.5	13
91	Polarity of the Fano Resonance in the Near-Field Magnetic-Dipole Response of a Dielectric Particle Near a Conductive Surface. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800037	8.3	2
90	Optical multipole resonances of non-spherical silicon nanoparticles and the influence of illumination direction 2018 ,		1
89	Resonant suppression of light transmission in high-refractive-index nanoparticle metasurfaces. <i>Optics Letters</i> , 2018 , 43, 5186-5189	3	18
88	Optical response of semiconductor nanostructure with free charge carriers in scanning near-field optical microscope 2018 , 591-596		
87	Near-IR resonant response of Ge microparticles fabricated by femtosecond laser printing. <i>Journal of Physics: Conference Series</i> , 2018 , 1092, 012175	0.3	
86	Giant magnetoelectric field separation via anapole-type states in high-index dielectric structures. <i>Physical Review B</i> , 2018 , 98,	3.3	33
85	Highly stable silver nanoparticles for SERS applications. <i>Journal of Physics: Conference Series</i> , 2018 , 1092, 012098	0.3	2

84	Interplay and coupling of electric and magnetic multipole resonances in plasmonic nanoparticle lattices. <i>MRS Communications</i> , 2018 , 8, 712-717	2.7	16
83	Highly Stable Monocrystalline Silver Clusters for Plasmonic Applications. <i>Langmuir</i> , 2017 , 33, 6062-6070	4	32
82	Phase-Resolved Observation of the Gouy Phase Shift of Surface Plasmon Polaritons. <i>ACS Photonics</i> , 2017 , 4, 905-908	6.3	10
81	Resonant Lattice Kerker Effect in Metasurfaces With Electric and Magnetic Optical Responses. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700132	8.3	125
80	Direct Amplitude-Phase Near-Field Observation of Higher-Order Anapole States. <i>Nano Letters</i> , 2017 , 17, 7152-7159	11.5	57
79	Destructive interference between electric and toroidal dipole moments in TiO ₂ cylinders and frustums with coaxial voids. <i>Journal of Physics: Conference Series</i> , 2017 , 929, 012065	0.3	3
78	The Synthesis of Hybrid Gold-Silicon Nano Particles in a Liquid. <i>Scientific Reports</i> , 2017 , 7, 10284	4.9	25
77	All-dielectric nanophotonics: the quest for better materials and fabrication techniques. <i>Optica</i> , 2017 , 4, 814	8.6	223
76	Multipolar response of nonspherical silicon nanoparticles in the visible and near-infrared spectral ranges. <i>Physical Review B</i> , 2017 , 96,	3.3	91
75	Toroidal dipole associated resonant forward scattering of light by silicon nanoparticles 2017 ,		2
74	Fabrication of sub-150 nm structures by two-photon polymerization for plasmon excitation 2017 ,		1
73	Resonant forward scattering of light by high-refractive-index dielectric nanoparticles with toroidal dipole contribution. <i>Optics Letters</i> , 2017 , 42, 835-838	3	58
72	Magnetic field concentration with coaxial silicon nanocylinders in the optical spectral range. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, D36	1.7	26
71	Optical theorem and multipole scattering of light by arbitrarily shaped nanoparticles. <i>Physical Review B</i> , 2016 , 94,	3.3	142
70	Nonradiating anapole modes of dielectric particles in terahertz range 2016 ,		2
69	Magnetic hot-spots in hollow silicon cylinders. <i>Journal of Physics: Conference Series</i> , 2016 , 741, 012156	0.3	6
68	Ultrafast surface plasmon-polariton interference and switching in multiple crossing dielectric waveguides. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	5
67	Substrate-Induced Resonant Magnetoelectric Effects for Dielectric Nanoparticles. <i>ACS Photonics</i> , 2015 , 2, 1423-1428	6.3	90

66	Nonradiating anapole modes in dielectric nanoparticles. <i>Nature Communications</i> , 2015 , 6, 8069	17.4	457
65	Resonant unidirectional and elastic scattering of surface plasmon polaritons by high refractive index dielectric nanoparticles. <i>Physical Review B</i> , 2015 , 92,	3.3	42
64	Probing cytochrome c in living mitochondria with surface-enhanced Raman spectroscopy. <i>Scientific Reports</i> , 2015 , 5, 13793	4.9	69
63	Electromagnetic Resonances of Silicon Nanoparticle Dimers in the Visible. <i>ACS Photonics</i> , 2015 , 2, 913-920	2.3	110
62	Optical spectroscopy of single Si nanocylinders with magnetic and electric resonances. <i>Scientific Reports</i> , 2014 , 4, 4126	4.9	59
61	Generation and patterning of Si nanoparticles by femtosecond laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 114, 45-50	2.6	57
60	Influence of metal doping on optical properties of Si nanoparticles. <i>Optics Communications</i> , 2014 , 316, 56-60	2	12
59	Giant Photogalvanic Effect in Noncentrosymmetric Plasmonic Nanoparticles. <i>Physical Review X</i> , 2014 , 4,	9.1	6
58	Laser printing of silicon nanoparticles with resonant optical electric and magnetic responses. <i>Nature Communications</i> , 2014 , 5, 3402	17.4	345
57	The interplay between localized and propagating plasmonic excitations tracked in space and time. <i>Nano Letters</i> , 2014 , 14, 2431-5	11.5	37
56	Laser-induced growth and self-organization of silver nanoparticles in colloidal polymers. <i>Laser Physics</i> , 2014 , 24, 126001	1.2	5
55	Laser-ablative engineering of phase singularities in plasmonic metamaterial arrays for biosensing applications. <i>Applied Physics Letters</i> , 2014 , 104, 071101	3.4	23
54	Laser Generation and Printing of Nanoparticles. <i>Springer Series in Materials Science</i> , 2014 , 103-123	0.9	
53	The formation of periodic diffractive plasmonic nanostructures with implanted copper nanoparticles by local ion etching of silica glass. <i>Technical Physics Letters</i> , 2013 , 39, 591-593	0.7	3
52	Spatiotemporal characterization of SPP pulse propagation in two-dimensional plasmonic focusing devices. <i>Nano Letters</i> , 2013 , 13, 1053-8	11.5	63
51	Synthesis of periodic plasmonic microstructures with copper nanoparticles in silica glass by low-energy ion implantation. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 111, 261-264	2.6	35
50	Bandgap-confined large-mode waveguides for surface plasmon-polaritons. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 2898	1.7	15
49	Multipole analysis of light scattering by arbitrary-shaped nanoparticles on a plane surface. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 2589	1.7	108

48	Demonstration of magnetic dipole resonances of dielectric nanospheres in the visible region. <i>Nano Letters</i> , 2012 , 12, 3749-55	11.5	684
47	Growth of Silver Nanoclusters on Monolayer Nanoparticulate Titanium-oxo-alkoxy Coatings. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17239-17247	3.8	17
46	Collective resonances in metal nanoparticle arrays with dipole-quadrupole interactions. <i>Physical Review B</i> , 2012 , 85,	3.3	105
45	Optical properties of spherical gold mesoparticles. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 106, 841-848	3.3	24
44	Characterization of localized field enhancements in laser fabricated gold needle nanostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 185	1.7	1
43	Photonic bandgap plasmonic waveguides. <i>Optics Letters</i> , 2011 , 36, 2468-70	3	7
42	Multipole light scattering by nonspherical nanoparticles in the discrete dipole approximation. <i>Physical Review B</i> , 2011 , 84,	3.3	236
41	Laser fabrication of large-scale nanoparticle arrays for sensing applications. <i>ACS Nano</i> , 2011 , 5, 4843-9	16.7	198
40	Optical transparency by detuned electrical dipoles. <i>New Journal of Physics</i> , 2011 , 13, 023034	2.9	55
39	Detuned electrical dipoles for plasmonic sensing. <i>Nano Letters</i> , 2010 , 10, 4571-7	11.5	71
38	Theoretical modelling and leakage radiation microscopy of surface plasmon polariton excitation and scattering on laser fabricated surface structures 2010 ,		1
37	Optical response features of Si-nanoparticle arrays. <i>Physical Review B</i> , 2010 , 82,	3.3	568
36	Direct laser-writing of dielectric-loaded surface plasmon polariton waveguides for the visible and near infrared. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 347-352	2.6	15
35	Plasmonic metasurfaces for waveguiding and field enhancement. <i>Laser and Photonics Reviews</i> , 2009 , 3, 575-590	8.3	34
34	Asymmetric and symmetric local surface-plasmon-polariton excitation on chains of nanoparticles. <i>Optics Letters</i> , 2009 , 34, 2237-9	3	15
33	Laser-induced transfer of metallic nanodroplets for plasmonics and metamaterial applications. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, B130	1.7	43
32	Mode-selective excitation of laser-written dielectric-loaded surface plasmon polariton waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, B55	1.7	22
31	Efficiency of surface-plasmon-polariton focusing by curved chains of nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 1011	1.7	4

30	Nonlinear microscopy of localized field enhancements in fractal shaped periodic metal nanostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 1585	1.7	11
29	Refracting surface plasmon polaritons with nanoparticle arrays. <i>Optics Express</i> , 2008 , 16, 3924-30	3.3	35
28	Holographic evanescent-wave focusing with nanoparticle arrays. <i>Optics Express</i> , 2008 , 16, 17429-40	3.3	2
27	Scattering of a surface plasmon polariton beam by chains of dipole nanoparticles. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 93, 203-207	1.9	
26	Plasmonic micro-optical components utilizing nanoparticle arrays: Theoretical approach. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2008 , 17, 249-253	0.7	
25	Electron Interband Breakdown in a Kane Semiconductor with a Degenerate Hole Distribution. <i>Springer Proceedings in Physics</i> , 2008 , 53-56	0.2	
24	Two-photon polymerization and applications in plasmonics 2007 , 6581, 174		1
23	Surface plasmon polariton scattering by finite-size nanoparticles. <i>Physical Review B</i> , 2007 , 76,	3.3	43
22	Focusing and manipulation of surface plasmon polaritons by laser fabricated dielectric structures 2007 ,		2
21	Surface plasmon polariton beam focusing with parabolic nanoparticle chains. <i>Optics Express</i> , 2007 , 15, 6576-82	3.3	65
20	Focusing and directing of surface plasmon polaritons by curved chains of nanoparticles. <i>Optics Express</i> , 2007 , 15, 16667-80	3.3	70
19	Surface plasmon polariton guiding by chains of nanoparticles. <i>Laser Physics Letters</i> , 2006 , 3, 396-400	1.5	31
18	Scattering of surface plasmon polaritons by a nanoparticle with the inclusion of the magnetic dipole contribution. <i>JETP Letters</i> , 2006 , 83, 558-562	1.2	2
17	Splitting of a surface plasmon polariton beam by chains of nanoparticles. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 84, 29-34	1.9	38
16	Point-dipole approximation for surface plasmon polariton scattering: Implications and limitations. <i>Physical Review B</i> , 2005 , 71,	3.3	51
15	Surface plasmon polariton scattering by small ellipsoid particles. <i>Surface Science</i> , 2005 , 590, 173-180	1.8	39
14	Applicability conditions for the dipole approximation in the problems of scattering of surface plasmon polaritons. <i>JETP Letters</i> , 2005 , 81, 218-221	1.2	12
13	Cross sections for surface plasmon polariton scattering from a nanoparticle in the dipole approximation. <i>Technical Physics Letters</i> , 2005 , 31, 817	0.7	2

12	How mesoscopic objects localized in a layered structure affect the light-field distribution in near-field surface microscopy. <i>Journal of Optical Technology (A Translation of Opticheskiy Zhurnal)</i> , 2004 , 71, 384	0.9	2
11	Self-consistent Quasi-electrostatic Approach in Near-field Optical Microscopy of Quantum Dots Ensemble Embedded in Layer Structure. <i>Microscopy and Microanalysis</i> , 2003 , 9, 172-173	0.5	
10	Effect of mesoscopic semiconductor perturbations on the electromagnetic field distribution in near-field optical microscopy. <i>Technical Physics Letters</i> , 2002 , 28, 263-265	0.7	
9	Influence of interatomic correlation effects on short-range order in hexagonal close-packed polycrystalline alloys. <i>Physics of the Solid State</i> , 1999 , 41, 1933-1939	0.8	
8	Electron impact ionization in p-type degenerate narrow-gap semiconductors with a Kane band dispersion law. <i>Semiconductor Science and Technology</i> , 1997 , 12, 29-34	1.8	1
7	Threshold and probability of impact ionization by electrons in narrow-gap p-type semiconductors with highly degenerate holes. <i>Physics of the Solid State</i> , 1997 , 39, 240-244	0.8	
6	Interband and impurity breakdown in a semiconductor with an impurity band in a high electric field. <i>Semiconductor Science and Technology</i> , 1994 , 9, 2056-2066	1.8	7
5	Polarization Switching Between Electric and Magnetic Quasi-Trapped Modes in Bianisotropic All-Dielectric Metasurfaces. <i>Laser and Photonics Reviews</i> , 2100206	8.3	1
4	Theory, Observation, and Ultrafast Response of the Hybrid Anapole Regime in Light Scattering. <i>Laser and Photonics Reviews</i> , 2100114	8.3	12
3	Controllable Excitation of Surface Plasmon Polaritons in Graphene-Based Semiconductor Quantum Dot Waveguides. <i>Annalen Der Physik</i> , 2100139	2.6	2
2	SERS uncovers the link between conformation of cytochrome c heme and mitochondrial membrane potential		2
1	Nonlinear Exciton-Mie Coupling in Transition Metal Dichalcogenide Nanoresonators. <i>Laser and Photonics Reviews</i> , 2100604	8.3	5