Nikolay I Zheludev

List of Publications by Year
in descending order

594	36,523	2427	3579
papers	citations	97 h-index	181 g-index

612	612	612	18723
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Fano resonance in plasmonic nanostructures and metamaterials. Nature Materials, 2010, 9, 707-715.	27.5	3,352
2	From metamaterials to metadevices. Nature Materials, 2012, 11, 917-924.	27.5	1,769
3	Sharp Trapped-Mode Resonances in Planar Metamaterials with a Broken Structural Symmetry. Physical Review Letters, 2007, 99, 147401.	7.8	1,008
4	Optically reconfigurable metasurfaces and photonic devices based on phase change materials. Nature Photonics, 2016, 10, 60-65.	31.4	918
5	Ultrafast active plasmonics. Nature Photonics, 2009, 3, 55-58.	31.4	785
6	Metamaterial Analog of Electromagnetically Induced Transparency. Physical Review Letters, 2008, 101, 253903.	7.8	760
7	Metamaterial with negative index due to chirality. Physical Review B, 2009, 79, .	3.2	683
8	Asymmetric Propagation of Electromagnetic Waves through a Planar Chiral Structure. Physical Review Letters, 2006, 97, 167401.	7.8	675
9	Lasing spaser. Nature Photonics, 2008, 2, 351-354.	31.4	662
10	Toroidal Dipolar Response in a Metamaterial. Science, 2010, 330, 1510-1512.	12.6	651
11	The Road Ahead for Metamaterials. Science, 2010, 328, 582-583.	12.6	581
12	A super-oscillatory lens optical microscope for subwavelength imaging. Nature Materials, 2012, 11, 432-435.	27.5	552
13	Giant Gyrotropy due to Electromagnetic-Field Coupling in a Bilayered Chiral Structure. Physical Review Letters, 2006, 97, 177401.	7.8	531
14	Metamaterials: Optical Activity without Chirality. Physical Review Letters, 2009, 102, 113902.	7.8	483
15	Optical Manifestations of Planar Chirality. Physical Review Letters, 2003, 90, 107404.	7.8	445
16	Electromagnetic toroidal excitations in matter and free space. Nature Materials, 2016, 15, 263-271.	27.5	433
17	An Allâ€Optical, Nonâ€volatile, Bidirectional, Phaseâ€Change Metaâ€Switch. Advanced Materials, 2013, 25, 3050-3054.	21.0	409
18	An electromechanically reconfigurable plasmonic metamaterial operating in the near-infrared. Nature Nanotechnology, 2013, 8, 252-255.	31.5	331

#	Article	IF	Citations
19	Reconfigurable Photonic Metamaterials. Nano Letters, 2011, 11, 2142-2144.	9.1	330
20	Terahertz metamaterial with asymmetric transmission. Physical Review B, 2009, 80, .	3.2	319
21	Metamaterial electro-optic switch of nanoscale thickness. Applied Physics Letters, 2010, 96, .	3.3	287
22	Asymmetric Transmission of Light and Enantiomerically Sensitive Plasmon Resonance in Planar Chiral Nanostructures. Nano Letters, 2007, 7, 1996-1999.	9.1	285
23	Super-Resolution without Evanescent Waves. Nano Letters, 2009, 9, 1249-1254.	9.1	285
24	Giant optical gyrotropy due to electromagnetic coupling. Applied Physics Letters, 2007, 90, 223113.	3.3	283
25	Toroidal dipolar excitation and macroscopic electromagnetic properties of metamaterials. Physical Review B, 2014, 89, .	3.2	276
26	Controlling light-with-light without nonlinearity. Light: Science and Applications, 2012, 1, e18-e18.	16.6	275
27	Reconfigurable nanomechanical photonic metamaterials. Nature Nanotechnology, 2016, 11, 16-22.	31.5	273
28	Metamaterial with polarization and direction insensitive resonant transmission response mimicking electromagnetically induced transparency. Applied Physics Letters, 2009, 94, 211902.	3.3	265
29	Resonant Transparency and Non-Trivial Non-Radiating Excitations in Toroidal Metamaterials. Scientific Reports, 2013, 3, 2967.	3.3	248
30	Active plasmonics: Controlling signals in Au/Ga waveguide using nanoscale structural transformations. Applied Physics Letters, 2004, 84, 1416-1418.	3.3	242
31	Roadmap on plasmonics. Journal of Optics (United Kingdom), 2018, 20, 043001.	2.2	240
32	Optical activity in extrinsically chiral metamaterial. Applied Physics Letters, 2008, 93, .	3.3	239
33	Multifold Enhancement of Quantum Dot Luminescence in Plasmonic Metamaterials. Physical Review Letters, 2010, 105, 227403.	7.8	224
34	Microelectromechanical Maltese-cross metamaterial with tunable terahertz anisotropy. Nature Communications, 2012, 3, 1274.	12.8	217
35	Optical Anapole Metamaterial. ACS Nano, 2018, 12, 1920-1927.	14.6	216
36	Graphene in a photonic metamaterial. Optics Express, 2010, 18, 8353.	3.4	214

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37	All-dielectric phase-change reconfigurable metasurface. Applied Physics Letters, 2016, 109, .	3.3	214
38	Nanostructured Metal Film with Asymmetric Optical Transmission. Nano Letters, 2008, 8, 2940-2943.	9.1	213
39	The life and times of the LED â€" a 100-year history. Nature Photonics, 2007, 1, 189-192.	31.4	211
40	Reconfigurable MEMS Fano metasurfaces with multiple-inputâ€"output states for logic operations at terahertz frequencies. Nature Communications, 2018, 9, 4056.	12.8	200
41	Towards the lasing spaser: controlling metamaterial optical response with semiconductor quantum dots. Optics Express, 2009, 17, 8548.	3.4	197
42	Giant nonlinear optical activity in a plasmonic metamaterial. Nature Communications, 2012, 3, 833.	12.8	182
43	Focusing of light by a nanohole array. Applied Physics Letters, 2007, 90, 091119.	3.3	176
44	A Micromachined Reconfigurable Metamaterial via Reconfiguration of Asymmetric Splitâ€Ring Resonators. Advanced Functional Materials, 2011, 21, 3589-3594.	14.9	170
45	Electrically Controlled Nanostructured Metasurface Loaded with Liquid Crystal: Toward Multifunctional Photonic Switch. Advanced Optical Materials, 2015, 3, 674-679.	7.3	170
46	Nanostructured Plasmonic Medium for Terahertz Bandwidth Allâ€Optical Switching. Advanced Materials, 2011, 23, 5540-5544.	21.0	169
47	Extrinsic electromagnetic chirality in metamaterials. Journal of Optics, 2009, 11, 074009.	1.5	166
48	Spectral Collapse in Ensembles of Metamolecules. Physical Review Letters, 2010, 104, 223901.	7.8	166
49	Chiral mirrors. Applied Physics Letters, 2015, 106, .	3.3	166
50	Active plasmonics: current status. Laser and Photonics Reviews, 2010, 4, 562-567.	8.7	165
51	Optical super-oscillations: sub-wavelength light focusing and super-resolution imaging. Journal of Optics (United Kingdom), 2013, 15, 094008.	2.2	164
52	Highly tunable optical activity in planar achiral terahertz metamaterials. Optics Express, 2010, 18, 13425.	3.4	160
53	Coherent perfect absorption in deeply subwavelength films in the single-photon regime. Nature Communications, 2015, 6, 7031.	12.8	160
54	Near-infrared trapped mode magnetic resonance in an all-dielectric metamaterial. Optics Express, 2013, 21, 26721.	3.4	159

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55	Ray-optics cloaking devices for large objects in incoherent natural light. Nature Communications, 2013, 4, 2652.	12.8	156
56	Toroidal metamaterial. New Journal of Physics, 2007, 9, 324-324.	2.9	155
57	Nanohole Array as a Lens. Nano Letters, 2008, 8, 2469-2472.	9.1	153
58	Design of plasmonic toroidal metamaterials at optical frequencies. Optics Express, 2012, 20, 1760.	3.4	153
59	Optofluidic waveguide as a transformation optics device for lightwave bending and manipulation. Nature Communications, 2012, 3, 651.	12.8	153
60	Light Well: A Tunable Free-Electron Light Source on a Chip. Physical Review Letters, 2009, 103, 113901.	7.8	151
61	Planar metamaterial with transmission and reflection that depend on the direction of incidence. Applied Physics Letters, 2009, 94, .	3.3	151
62	Sharp Toroidal Resonances in Planar Terahertz Metasurfaces. Advanced Materials, 2016, 28, 8206-8211.	21.0	148
63	What diffraction limit?. Nature Materials, 2008, 7, 420-422.	27.5	146
64	Roadmap on metasurfaces. Journal of Optics (United Kingdom), 2019, 21, 073002.	2.2	146
65	Dielectric Metamaterials with Toroidal Dipolar Response. Physical Review X, 2015, 5, .	8.9	145
66	Layered chiral metallic microstructures with inductive coupling. Applied Physics Letters, 2001, 78, 498-500.	3.3	142
67	Plasmon Spectroscopy and Imaging of Individual Gold Nanodecahedra: A Combined Optical Microscopy, Cathodoluminescence, and Electron Energy-Loss Spectroscopy Study. Nano Letters, 2012, 12, 4172-4180.	9.1	139
68	Micromachined tunable metamaterials: a review. Journal of Optics (United Kingdom), 2012, 14, 114009.	2.2	137
69	Ultrafast all-optical switching via coherent modulation of metamaterial absorption. Applied Physics Letters, 2014, 104, .	3.3	135
70	Super-oscillatory optical needle. Applied Physics Letters, 2013, 102, .	3.3	131
71	Controlling light with light using coherent metadevices: all-optical transistor, summator and invertor. Light: Science and Applications, 2015, 4, e292-e292.	16.6	130
72	Metamaterial-Induced Transparency: Sharp Fano Resonances and Slow Light. Optics and Photonics News, 2009, 20, 22.	0.5	129

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73	Ultraviolet and visible range plasmonics in the topological insulator Bi1.5Sb0.5Te1.8Se1.2. Nature Communications, 2014, 5, 5139.	12.8	129
74	Temperature control of Fano resonances and transmission in superconducting metamaterials. Optics Express, 2010, 18, 9015.	3.4	128
75	Carbon Nanotubes in a Photonic Metamaterial. Physical Review Letters, 2010, 104, 153902.	7.8	122
76	The magnetic response of graphene split-ring metamaterials. Light: Science and Applications, 2013, 2, e78-e78.	16.6	121
77	A Flat Lens with Tunable Phase Gradient by Using Random Access Reconfigurable Metamaterial. Advanced Materials, 2015, 27, 4739-4743.	21.0	121
78	Achromatic super-oscillatory lenses with sub-wavelength focusing. Light: Science and Applications, 2017, 6, e17036-e17036.	16.6	121
79	A magneto-electro-optical effect in a plasmonic nanowire material. Nature Communications, 2015, 6, 7021.	12.8	118
80	Organometallic Perovskite Metasurfaces. Advanced Materials, 2017, 29, 1604268.	21.0	118
81	Broken Time Reversal of Light Interaction with Planar Chiral Nanostructures. Physical Review Letters, 2003, 91, 247404.	7.8	116
82	Optical super-resolution through super-oscillations. Journal of Optics, 2007, 9, S285-S288.	1.5	116
83	Planar super-oscillatory lens for sub-diffraction optical needles at violet wavelengths. Scientific Reports, 2014, 4, 6333.	3.3	116
84	The plasmon Talbot effect. Optics Express, 2007, 15, 9692.	3.4	115
85	Generation of Traveling Surface Plasmon Waves by Free-Electron Impact. Nano Letters, 2006, 6, 1113-1115.	9.1	114
86	Toroidal Lasing Spaser. Scientific Reports, 2013, 3, 1237.	3.3	114
87	Electromagnetic wave analogue of an electronic diode. New Journal of Physics, 2011, 13, 033025.	2.9	111
88	Roadmap on superoscillations. Journal of Optics (United Kingdom), 2019, 21, 053002.	2.2	111
89	Phase-change-driven dielectric-plasmonic transitions in chalcogenide metasurfaces. NPG Asia Materials, 2018, 10, 533-539.	7.9	108
90	Optical anapoles. Communications Physics, 2019, 2, .	5.3	108

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91	Room temperature nanocavity laser with interlayer excitons in 2D heterostructures. Science Advances, 2019, 5, eaav4506.	10.3	108
92	Two-dimensional control of light with light on metasurfaces. Light: Science and Applications, 2016, 5, e16070-e16070.	16.6	106
93	Optical whirlpool on an absorbing metallic nanoparticle. Optics Express, 2005, 13, 8372.	3.4	103
94	Electro-optical control in a plasmonic metamaterial hybridised with a liquid-crystal cell. Optics Express, 2013, 21, 1633.	3.4	102
95	Polarization control of optical transmission of a periodic array of elliptical nanoholes in a metal film. Optics Letters, 2004, 29, 1414.	3.3	101
96	Obtaining optical properties on demand. Science, 2015, 348, 973-974.	12.6	101
97	Coherent and incoherent metamaterials and order-disorder transitions. Physical Review B, 2009, 80, .	3.2	98
98	Planar electromagnetic metamaterial with a fish scale structure. Physical Review E, 2005, 72, 056613.	2.1	97
99	A Roadmap for Metamaterials. Optics and Photonics News, 2011, 22, 30.	0.5	96
100	Nonlinear graphene metamaterial. Applied Physics Letters, 2012, 100, .	3.3	96
101	Optical magnetic response in three-dimensional metamaterial of upright plasmonic meta-molecules. Optics Express, 2011, 19, 12837.	3.4	95
102	Detecting nanometric displacements with optical ruler metrology. Science, 2019, 364, 771-775.	12.6	95
103	Gyrotropy of a Metamolecule: Wire on a Torus. Physical Review Letters, 2009, 103, 093901.	7.8	91
104	Optical magnetic mirrors. Journal of Optics, 2007, 9, L1-L2.	1.5	90
105	Modulating Sub-THz Radiation with Current in Superconducting Metamaterial. Physical Review Letters, 2012, 109, 243904.	7.8	85
106	All-Optical Phase-Change Memory in a Single Gallium Nanoparticle. Physical Review Letters, 2007, 98, 153905.	7.8	84
107	Coherent control of Snellâ€™s law at metasurfaces. Optics Express, 2014, 22, 21051.	3.4	84
108	Asymmetric transmission: a generic property of two-dimensional periodic patterns. Journal of Optics (United Kingdom), 2011, 13, 024006.	2.2	82

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109	Giant Nonlinearity of an Optically Reconfigurable Plasmonic Metamaterial. Advanced Materials, 2016, 28, 729-733.	21.0	82
110	Optical control of gallium nanoparticle growth. Applied Physics Letters, 2002, 80, 1643-1645.	3.3	80
111	Mirror that does not change the phase of reflected waves. Applied Physics Letters, 2006, 88, 091119.	3.3	80
112	Far-Field Superoscillatory Metamaterial Superlens. Physical Review Applied, 2019, 11, .	3.8	77
113	High-contrast modulation of light with light by control of surface plasmon polariton wave coupling. Applied Physics Letters, 2004, 85, 3369-3371.	3.3	74
114	Coherent Control of Nanoscale Light Localization in Metamaterial: Creating and Positioning Isolated Subwavelength Energy Hot Spots. Physical Review Letters, 2011, 106, 085501.	7.8	74
115	Many-Body Subradiant Excitations in Metamaterial Arrays: Experiment and Theory. Physical Review Letters, 2017, 119, 053901.	7.8	73
116	Fibre-optic metadevice for all-optical signal modulation based on coherent absorption. Nature Communications, 2018, 9, 182.	12.8	73
117	Magnetic plasmon induced transparency in three-dimensional metamolecules. Nanophotonics, 2012, 1, 131-138.	6.0	72
118	Plasmon coupling in vertical split-ring resonator metamolecules. Scientific Reports, 2015, 5, 9726.	3.3	71
119	Supertoroidal light pulses as electromagnetic skyrmions propagating in free space. Nature Communications, 2021, 12, 5891.	12.8	71
120	Nonlinear dielectric optomechanical metamaterials. Light: Science and Applications, 2013, 2, e96-e96.	16.6	69
121	Polarization effects in the diffraction of light by a planar chiral structure. Physical Review E, 2005, 71, 037603.	2.1	68
122	Superconducting plasmonics and extraordinary transmission. Applied Physics Letters, 2010, 97, .	3.3	68
123	Electron-Beam-Driven Collective-Mode Metamaterial Light Source. Physical Review Letters, 2012, 109, 217401.	7.8	68
124	Holographic free-electron light source. Nature Communications, 2016, 7, 13705.	12.8	66
125	Far field subwavelength focusing using optical eigenmodes. Applied Physics Letters, 2011, 98, .	3.3	65
126	Plasmonics of topological insulators at optical frequencies. NPG Asia Materials, 2017, 9, e425-e425.	7.9	65

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127	Metamaterial polarization spectral filter: Isolated transmission line at any prescribed wavelength. Applied Physics Letters, 2011, 99, .	3.3	63
128	Sub-wavelength focusing meta-lens. Optics Express, 2013, 21, 7577.	3.4	61
129	Nano-optomechanical nonlinear dielectric metamaterials. Applied Physics Letters, 2015, 107, .	3.3	61
130	Reconfigurable Ultraviolet and High-Energy Visible Dielectric Metamaterials. Nano Letters, 2019, 19, 1643-1648.	9.1	61
131	Phase matched second harmonic generation from nanostructured metallic surfaces. Journal of Optics, 2004, 6, 26-28.	1.5	60
132	Active control of surface plasmonâ€“polariton waves. Journal of Optics, 2005, 7, S85-S89.	1.5	59
133	Hyperspectral imaging of plasmonic nanostructures with nanoscale resolution. Optics Express, 2007, 15, 11313.	3.4	59
134	Ultra-confined surface phonon polaritons in molecular layers of van der Waals dielectrics. Nature Communications, 2018, 9, 1762.	12.8	59
135	Observation of toroidal pulses of light. Nature Photonics, 2022, 16, 523-528.	31.4	58
136	Light-Induced Switching between Structural Forms with Different Optical Properties in a Single Gallium Nanoparticulate. Nano Letters, 2005, 5, 2104-2107.	9.1	57
137	Toroidal circular dichroism. Physical Review B, 2016, 94, .	3.2	57
138	1.7 Gbit/in.2 gray-scale continuous-phase-change femtosecond image storage. Applied Physics Letters, 2014, 104, .	3.3	55
139	Superconductor photonics. Nature Photonics, 2014, 8, 679-680.	31.4	55
140	Visible Range Plasmonic Modes on Topological Insulator Nanostructures. Advanced Optical Materials, 2017, 5, 1600768.	7.3	55
141	Continuous metal plasmonic frequency selective surfaces. Optics Express, 2011, 19, 23279.	3.4	54
142	Fabrication of three dimensional split ring resonators by stress-driven assembly method. Optics Express, 2012, 20, 9415.	3.4	54
143	Coherent control of optical polarization effects in metamaterials. Scientific Reports, 2015, 5, 8977.	3.3	54
144	Chalcogenide glasses in active plasmonics. Physica Status Solidi - Rapid Research Letters, 2010, 4, 274-276.	2.4	53

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145	Optical properties of closely packed nanoparticle films: spheroids and nanoshells. Journal of Optics, 2004, 6, 155-160.	1.5	52
146	â€œPlasmonicsâ€•in free space: observation of giant wavevectors, vortices, and energy backflow in superoscillatory optical fields. Light: Science and Applications, 2019, 8, 2.	16.6	52
147	A photonic switch based on a gigantic, reversible optical nonlinearity of liquefying gallium. Applied Physics Letters, 1998, 73, 1787-1789.	3.3	51
148	Phase Coexistence in Gallium Nanoparticles Controlled by Electron Excitation. Physical Review Letters, 2004, 92, 145702.	7.8	51
149	Passive Q-switching of fiber lasers using a broadband liquefying gallium mirror. Applied Physics Letters, 1999, 74, 3619-3621.	3.3	49
150	Optical gecko toe: Optically controlled attractive near-field forces between plasmonic metamaterials and dielectric or metal surfaces. Physical Review B, 2012, 85, .	3.2	49
151	Controlling intensity and phase of terahertz radiation with an optically thin liquid crystal-loaded metamaterial. Applied Physics Letters, 2013, 103, .	3.3	49
152	Flat super-oscillatory lens for heat-assisted magnetic recording with sub-50nm resolution. Optics Express, 2014, 22, 6428.	3.4	48
153	Point spread function of the optical needle super-oscillatory lens. Applied Physics Letters, 2014, 104, .	3.3	48
154	Nonlinear optics on the nanoscale. Contemporary Physics, 2002, 43, 365-377.	1.8	47
155	An optical fiber network oracle for NP-complete problems. Light: Science and Applications, 2014, 3, e147-e147.	16.6	47
156	Invited Article: All-optical multichannel logic based on coherent perfect absorption in a plasmonic metamaterial. APL Photonics, 2016, 1, .	5.7	47
157	Magnetic control of a meta-molecule. Optics Express, 2013, 21, 1456.	3.4	46
158	Wavelength dependent birefringence of surface plasmon polaritonic crystals. Physical Review B, 2004, 70, .	3.2	45
159	THz bandwidth optical switching with carbon nanotube metamaterial. Optics Express, 2012, 20, 6068.	3.4	45
160	Coherent control of birefringence and optical activity. Applied Physics Letters, 2014, 105, .	3.3	45
161	Infrared dielectric metamaterials from high refractive index chalcogenides. Nature Communications, 2020, 11, 1692.	12.8	45
162	Optical nonlinearity resulting from a light-induced structural transition in gallium nanoparticles. Applied Physics Letters, 2003, 82, 1087-1089.	3.3	44

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163	Giant Enhancement of Cathodoluminescence of Monolayer Transitional Metal Dichalcogenides Semiconductors. Nano Letters, 2017, 17, 6475-6480.	9.1	44
164	Optical superoscillation technologies beyond the diffraction limit. Nature Reviews Physics, 2022, 4, 16-32.	26.6	44
165	Coherent Excitation-Selective Spectroscopy of Multipole Resonances. Physical Review Applied, 2016, 5, .	3.8	43
166	All-optical dynamic focusing of light via coherent absorption in a plasmonic metasurface. Light: Science and Applications, 2018, 7, 17157-17157.	16.6	42
167	Experimental observation of specular optical activity. Physical Review Letters, 1993, 70, 3039-3042.	7.8	41
168	Nanoimprint lithography for planar chiral photonic meta-materials. Microelectronic Engineering, 2005, 78-79, 612-617.	2.4	41
169	Polarization conversion and â€œfocusingâ€•of light propagating through a small chiral hole in a metallic screen. Applied Physics Letters, 2005, 86, 201105.	3.3	41
170	Femtosecond surface plasmon pulse propagation. Optics Letters, 2011, 36, 250.	3.3	41
171	Transformation optofluidics for large-angle light bending and tuning. Lab on A Chip, 2012, 12, 3785.	6.0	41
172	Quantum super-oscillation of a single photon. Light: Science and Applications, 2016, 5, e16127-e16127.	16.6	41
173	Polarization instability and multistability in nonlinear optics. Uspekhi Fizicheskikh Nauk, 1989, 32, 357-375.	0.3	40
174	Dispersion properties of nonradiating configurations: Finite-difference time-domain modeling. Physical Review E, 2005, 72, 036603.	2.1	40
175	Resonant nanostructures for highly confined and ultra-sensitive surface phonon-polaritons. Nature Communications, 2020, 11, 1863.	12.8	39
176	Cubic optical nonlinearity of free electrons in bulk gold. Optics Letters, 1995, 20, 1368.	3.3	38
177	Enhanced microwave transmission through quasicrystal hole arrays. Applied Physics Letters, 2007, 91, 081503.	3.3	38
178	Transmitting Hertzian Optical Nanoantenna with Free-Electron Feed. Nano Letters, 2010, 10, 3250-3252.	9.1	38
179	A combinatorial approach to metamaterials discovery. Journal of Optics (United Kingdom), 2011, 13, 055102.	2.2	38
180	Reconfiguring photonic metamaterials with currents and magnetic fields. Applied Physics Letters, 2015, 106, .	3.3	38

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181	Atomic Response in the Near-Field of Nanostructured Plasmonic Metamaterial. Nano Letters, 2016, 16, 3137-3141.	9.1	38
182	Toroidal dipole excitations in metamolecules formed by interacting plasmonic nanorods. Physical Review B, 2016, 93, .	3.2	38
183	Equivalency of the Casimir and the Landau-Lifshitz approaches to continuous-media electrodynamics and optical activity on reflection. Physical Review B, 1993, 47, 11730-11735.	3.2	37
184	All-Optical Pattern Recognition and Image Processing on a Metamaterial Beam Splitter. ACS Photonics, 2017, 4, 217-222.	6.6	37
185	Single nanoparticle as photonic switch and optical memory element. Journal of Optics, 2006, 8, S1-S8.	1.5	36
186	Amplification of the Evanescent Field of Free Electrons. ACS Photonics, 2015, 2, 1236-1240.	6.6	36
187	Optically switchable photonic metasurfaces. Applied Physics Letters, 2015, 107, .	3.3	36
188	Giant specular inverse Faraday effect in Cd0.6Mn0.4Te. Solid State Communications, 1994, 89, 823-825.	1.9	35
189	Low-loss terahertz superconducting plasmonics. New Journal of Physics, 2012, 14, 115006.	2.9	35
190	Coherent control of light-matter interactions in polarization standing waves. Scientific Reports, 2016, 6, 31141.	3.3	35
191	Exciting dynamic anapoles with electromagnetic doughnut pulses. Applied Physics Letters, 2017, 111, .	3.3	34
192	Gallium/aluminum nanocomposite material for nonlinear optics and nonlinear plasmonics. Applied Physics Letters, 2006, 89, 031118.	3.3	33
193	Giant optical forces in planar dielectric photonic metamaterials. Optics Letters, 2014, 39, 4883.	3.3	33
194	A new model of geometric chirality for two-dimensional continuous media and planar meta-materials. Journal of Optics, 2004, 6, 193-203.	1.5	32
195	Diffractive Micro Bar Codes for Encoding of Biomolecules in Multiplexed Assays. Analytical Chemistry, 2008, 80, 1902-1909.	6.5	32
196	Nanoâ€•and Microâ€Auxetic Plasmonic Materials. Advanced Materials, 2016, 28, 5176-5180.	21.0	32
197	Pulse generation scheme for flying electromagnetic doughnuts. Physical Review B, 2018, 97, .	3.2	32
198	Stoichiometric Engineering of Chalcogenide Semiconductor Alloys for Nanophotonic Applications. Advanced Materials, 2019, 31, e1807083.	21.0	32

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199	High-quality metamaterial dispersive grating on the facet of an optical fiber. Applied Physics Letters, 2017, 111, .	3.3	31
200	Optical Gating of Resonance Fluorescence from a Single Germanium Vacancy Color Center in Diamond. Physical Review Letters, 2019, 123, 033602.	7.8	31
201	Artificial intelligence for photonics and photonic materials. Reports on Progress in Physics, 2021, 84, 012401.	20.1	31
202	Coherent and incoherent specular inverse Faraday effect: Ï‡^(3) measurements in opaque materials. Optics Letters, 1994, 19, 13.	3.3	30
203	Analysis of polarization transformations by a planar chiral array of complex-shaped particles. Journal of Optics, 2009, 11, 074002.	1.5	30
204	Flux Exclusion Superconducting Quantum Metamaterial: Towards Quantum-level Switching. Scientific Reports, 2012, 2, 450.	3.3	30
205	Wavevector Selective Metasurfaces and Tunnel Vision Filters. Light: Science and Applications, 2015, 4, e306-e306.	16.6	30
206	Specular optical activity of achiral metasurfaces. Applied Physics Letters, 2016, 108, .	3.3	29
207	Generation of deformation waves in the processes of photoexcitation and recombination of nonequilibrium carriers in silicon. Applied Physics A: Solids and Surfaces, 1986, 40, 163-166.	1.4	28
208	Light-induced metallization in laser-deposited gallium films. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 331.	2.1	28
209	â€œDigitallyâ€•Addressable Focusing of Light into a Subwavelength Hot Spot. Nano Letters, 2012, 12, 2728-2731.	9.1	28
210	Controlling the Optical Response of 2D Matter in Standing Waves. ACS Photonics, 2017, 4, 3000-3011.	6.6	28
211	Building Blocks for Quantum Network Based on Groupâ€IV Splitâ€Vacancy Centers in Diamond. Advanced Quantum Technologies, 2020, 3, 1900069.	3.9	28
212	Light-controlled growth of gallium nanoparticles. Journal of Applied Physics, 2003, 93, 3540-3544.	2.5	27
213	Optical response of plasmonic relief meta-surfaces. Journal of Optics (United Kingdom), 2012, 14, 114002.	2.2	27
214	Computing matrix inversion with optical networks. Optics Express, 2014, 22, 295.	3.4	27
215	Measures of space-time nonseparability of electromagnetic pulses. Physical Review Research, 2021, 3, .	3.6	27
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