

# Nikolay I Zheludev

## List of Publications by Year in descending order

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594  
papers

36,523  
citations

2427

97  
h-index

3579

181  
g-index

612  
all docs

612  
docs citations

612  
times ranked

18723  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical superoscillation technologies beyond the diffraction limit. Nature Reviews Physics, 2022, 4, 16-32.	26.6	44
2	Non-contact optical magnetic field sensor based on metamaterial nanomechanics. APL Photonics, 2022, 7, .	5.7	7
3	Deep-Learning-Assisted Focused Ion Beam Nanofabrication. Nano Letters, 2022, 22, 2734-2739.	9.1	7
4	Thermal Fluctuations of the Optical Properties of Nanomechanical Photonic Metamaterials. Advanced Optical Materials, 2022, 10, .	7.3	8
5	Optical Control of Nanomechanical Brownian Motion Eigenfrequencies in Metamaterials. Nano Letters, 2022, 22, 4301-4306.	9.1	6
6	Observation of toroidal pulses of light. Nature Photonics, 2022, 16, 523-528.	31.4	58
7	Deterministic generation of entanglement in a quantum network by coherent absorption of a single photon. Physical Review A, 2022, 106, .	2.5	7
8	Germaniumâ€onâ€Carborundum Surface Phononâ€Polariton Infrared Metamaterial. Advanced Optical Materials, 2021, 9, 2001652.	7.3	7
9	Electrogyration in Metamaterials: Chirality and Polarization Rotatory Power that Depend on Applied Electric Field. Advanced Optical Materials, 2021, 9, 2001826.	7.3	16
10	Unlabeled Farâ€Field Deeply Subwavelength Topological Microscopy (DSTM). Advanced Science, 2021, 8, 2002886.	11.2	21
11	Detection of sub-atomic movement in nanostructures. Nanoscale Advances, 2021, 3, 2213-2216.	4.6	0
12	Mirror-Symmetric Patterning of Topological Insulator Reverses Photogalvanic Currents. , 2021, , .		0
13	Observation of Toroidal Light Pulses. , 2021, , .		12
14	10.1063/5.0015363.1. , 2021, , .		0
15	Mark Stockman: Evangelist for Plasmonics. ACS Photonics, 2021, 8, 683-698.	6.6	2
16	Measures of space-time nonseparability of electromagnetic pulses. Physical Review Research, 2021, 3, .	3.6	27
17	Second harmonic generation in amorphous silicon-on-silica metamaterial. APL Photonics, 2021, 6, .	5.7	8
18	Cellular automata dynamics of nonlinear optical processes in a phase-change material. Applied Physics Reviews, 2021, 8, .	11.3	3

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19	Topological insulator metamaterial with giant circular photogalvanic effect. Science Advances, 2021, 7, .	10.3	23
20	Gigahertz Nano-Optomechanical Resonances in a Dielectric SiC-Membrane Metasurface Array. Nano Letters, 2021, 21, 4563-4569.	9.1	13
21	Deeply sub-wavelength non-contact optical metrology of sub-wavelength objects. APL Photonics, 2021, 6, .	5.7	10
22	Deeply Sub-Wavelength Non-Contact Optical Metrology of Sub-Wavelength Objects. , 2021, , .		1
23	Non-Local Control of Light Dissipation with Pancharatnam-Berry Phase. , 2021, , .		0
24	Optical magnetic response without metamaterials. APL Photonics, 2021, 6, 071303.	5.7	1
25	Visualization of Subatomic Movements in Nanostructures. Nano Letters, 2021, 21, 7746-7752.	9.1	3
26	Deterministic Generation of Entanglement in Quantum Networks by Distributed Coherent Absorption. , 2021, , .		0
27	ANTI Hong-Ou-Mandel Interference on a Lossy Beamsplitter. , 2021, , .		0
28	Artificial intelligence for photonics and photonic materials. Reports on Progress in Physics, 2021, 84, 012401.	20.1	31
29	Spatio-temporal characterization of ultrashort vector pulses. APL Photonics, 2021, 6, .	5.7	10
30	Supertoroidal light pulses as electromagnetic skyrmions propagating in free space. Nature Communications, 2021, 12, 5891.	12.8	71
31	Optomechanical metamaterial nanobolometer. APL Photonics, 2021, 6, .	5.7	10
32	Building Blocks for Quantum Network Based on Groupâ€V Splitâ€V Vacancy Centers in Diamond. Advanced Quantum Technologies, 2020, 3, 1900069.	3.9	28
33	Metamaterial Enhancement of Metal-Halide Perovskite Luminescence. Nano Letters, 2020, 20, 7906-7911.	9.1	23
34	Superoscillatory quartz lens with effective numerical aperture greater than one. Applied Physics Letters, 2020, 117, 021106.	3.3	9
35	Far-field unlabeled super-resolution imaging with superoscillatory illumination. APL Photonics, 2020, 5, .	5.7	25
36	Enhancement of luminescence of quantum emitters in epsilon-near-zero waveguides. Applied Physics Letters, 2020, 117, 181104.	3.3	14

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37	Space-time nonseparable pulses: Constructing isodiffracting donut pulses from plane waves and single-cycle pulses. <i>Physical Review A</i> , 2020, 102, .	2.5	11
38	Plasmono-atomic interactions on a fiber tip. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	5
39	Near-field mapping of the edge mode of a topological valley slab waveguide at $\hat{\epsilon} = 1.55$ $\times 10^4$ m. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	16
40	Infrared dielectric metamaterials from high refractive index chalcogenides. <i>Nature Communications</i> , 2020, 11, 1692.	12.8	45
41	Label-free deeply subwavelength optical microscopy. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	16
42	Resonant nanostructures for highly confined and ultra-sensitive surface phonon-polaritons. <i>Nature Communications</i> , 2020, 11, 1863.	12.8	39
43	Phase stabilization of a coherent fiber network by single-photon counting. <i>Optics Letters</i> , 2020, 45, 2740.	3.3	9
44	Ultraviolet hollow-core waveguides with sub-unitary index chalcogenide cladding. <i>Optical Materials Express</i> , 2020, 10, 2254.	3.0	3
45	Emission of Diamond NV Centers in Dielectric, Semiconducting and Plasmonic Environments. , 2020, , .		0
46	Deep Subwavelength Singularity Imaging Beyond $\lambda/100$ . , 2020, , .		0
47	Planar Resonators Supporting Extremely Confined Phonon-Polariton Modes. , 2020, , .		0
48	Topological Insulator Chalcogenides for Infrared Dielectric Metamaterials. , 2020, , .		0
49	Generation of Topological Space-Time Non-Separable Light Pulses. , 2020, , .		0
50	Optical Gating of Resonance Fluorescence from a Single Germanium Vacancy Color Center in Diamond. <i>Physical Review Letters</i> , 2019, 123, 033602.	7.8	31
51	Coupling of atomic quadrupole transitions with resonant surface plasmons. <i>Physical Review A</i> , 2019, 99, .	2.5	10
52	Optical anapoles. <i>Communications Physics</i> , 2019, 2, .	5.3	108
53	Roadmap on metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 073002.	2.2	146
54	Mechanochromic Reconfigurable Metasurfaces. <i>Advanced Science</i> , 2019, 6, 1900974.	11.2	23

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55	Fiber-integrated phase-change reconfigurable optical attenuator. APL Photonics, 2019, 4, .	5.7	16
56	Femtosecond Laser Assisted Fabrication of Visible Wavelength All-Dielectric Nano-Membrane Metasurfaces. , 2019, , .		0
57	Cooperative field localization and excitation eigenmodes in disordered metamaterials. Physical Review B, 2019, 99, .	3.2	2
58	Singularities in the flying electromagnetic doughnuts. Nanophotonics, 2019, 8, 1379-1385.	6.0	20
59	Far-Field Superoscillatory Metamaterial Superlens. Physical Review Applied, 2019, 11, .	3.8	77
60	Detecting nanometric displacements with optical ruler metrology. Science, 2019, 364, 771-775.	12.6	95
61	Roadmap on superoscillations. Journal of Optics (United Kingdom), 2019, 21, 053002.	2.2	111
62	Cryptography in coherent optical information networks using dissipative metamaterial gates. APL Photonics, 2019, 4, 046102.	5.7	7
63	Room temperature nanocavity laser with interlayer excitons in 2D heterostructures. Science Advances, 2019, 5, eaav4506.	10.3	108
64	Seeing the future from the past. Nature Photonics, 2019, 13, 221-222.	31.4	2
65	Reconfigurable Ultraviolet and High-Energy Visible Dielectric Metamaterials. Nano Letters, 2019, 19, 1643-1648.	9.1	61
66	Stoichiometric Engineering of Chalcogenide Semiconductor Alloys for Nanophotonic Applications. Advanced Materials, 2019, 31, e1807083.	21.0	32
67	Controlling Light with Light via Interference on Photonic Metamaterials. Springer Series in Optical Sciences, 2019, , 239-265.	0.7	0
68	Metamaterials, Anapoles and Flying Donuts. , 2019, , .		0
69	Anapoles and Flying Doughnuts. , 2019, , .		0
70	A Topologically Robust Formation of Broadband Vortices Propagating at the Speed of Light. , 2019, , .		0
71	Coherent perfect absorption of single photons in a fiber network. Applied Physics Letters, 2019, 115, .	3.3	9
72	Nonlinear control of coherent absorption and its optical signal processing applications. APL Photonics, 2019, 4, 106109.	5.7	1

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73	Metamaterials for generating space-time coupled few-cycle pulses. , 2019, , .		0
74	Giant Electro-Optical Effect through Electrostriction in a Nanomechanical Metamaterial. Advanced Materials, 2019, 31, e1804801.	21.0	19
75	Coherent metamaterial absorption of two-photon states with 40% efficiency. Physical Review A, 2019, 99, .	2.5	25
76	Plasmonics 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
77	Reconfigurable MEMS metasurface for active tuning of Fano resonance and logic gate operations at THz frequencies. , 2019, , .		0
78	Quantum State Filtering of Dual-rail Photons with Fiberized Plasmonic Metamaterial. , 2019, , .		0
79	Tuning the surface Casimir-Polder interaction. , 2019, , .		0
80	Ultrafast Coherent Absorption in Diamond Metamaterials. Advanced Materials, 2018, 30, e1707354.	21.0	16
81	Roadmap on plasmonics. Journal of Optics (United Kingdom), 2018, 20, 043001.	2.2	240
82	Light, the universe and everything – 12 Herculean tasks for quantum cowboys and black diamond skiers. Journal of Modern Optics, 2018, 65, 1261-1308.	1.3	6
83	Optical Anapole Metamaterial. ACS Nano, 2018, 12, 1920-1927.	14.6	216
84	Fibre-optic metadvice for all-optical signal modulation based on coherent absorption. Nature Communications, 2018, 9, 182.	12.8	73
85	Direction-division multiplexed holographic free-electron-driven light sources. Applied Physics Letters, 2018, 112, .	3.3	6
86	Ultra-confined surface phonon polaritons in molecular layers of van der Waals dielectrics. Nature Communications, 2018, 9, 1762.	12.8	59
87	All-optical dynamic focusing of light via coherent absorption in a plasmonic metasurface. Light: Science and Applications, 2018, 7, 17157-17157.	16.6	42
88	Magneto-optical response in bimetallic metamaterials. Nanophotonics, 2018, 7, 199-206.	6.0	19
89	Photonic Metamaterials: Optical Response of Nanohole Arrays Filled with Chalcogenide Low-Epsilon Media (Advanced Optical Materials 22/2018). Advanced Optical Materials, 2018, 6, 1870088.	7.3	0
90	Strong interactions and subradiance in disordered metamaterials. Physical Review B, 2018, 98, .	3.2	11

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91	All-dielectric free-electron-driven holographic light sources. Applied Physics Letters, 2018, 113, .	3.3	5
92	Reconfigurable MEMS Fano metasurfaces with multiple-input“output states for logic operations at terahertz frequencies. Nature Communications, 2018, 9, 4056.	12.8	200
93	Optical Response of Nanohole Arrays Filled with Chalcogenide Low“Epsilon Media. Advanced Optical Materials, 2018, 6, 1800395.	7.3	12
94	Switchable Metamaterials: A Non-Volatile Chalcogenide Switchable Hyperbolic Metamaterial (Advanced Optical Materials 19/2018). Advanced Optical Materials, 2018, 6, 1870074.	7.3	0
95	Pulse generation scheme for flying electromagnetic doughnuts. Physical Review B, 2018, 97, .	3.2	32
96	Optical NP problem solver on laser-written waveguide platform. Optics Express, 2018, 26, 702.	3.4	16
97	Variable Environmental Index Spectroscopy in Metamaterials. , 2018, , .		1
98	Picosecond all-optical switching and dark pulse generation in a fibre-optic network using a plasmonic metamaterial absorber. Applied Physics Letters, 2018, 113, .	3.3	15
99	Far-field Metamaterial Superlens. , 2018, , .		0
100	Optical bistability in shape-memory nanowire metamaterial array. Applied Physics Letters, 2018, 113, .	3.3	22
101	A Non“Volatile Chalcogenide Switchable Hyperbolic Metamaterial. Advanced Optical Materials, 2018, 6, 1800332.	7.3	16
102	Compositionally controlled plasmonics in amorphous semiconductor metasurfaces. Optics Express, 2018, 26, 20861.	3.4	12
103	Optical addressing of nanomechanical metamaterials with subwavelength resolution. Applied Physics Letters, 2018, 113, .	3.3	9
104	Phase-change-driven dielectric-plasmonic transitions in chalcogenide metasurfaces. NPC Asia Materials, 2018, 10, 533-539.	7.9	108
105	Launching Electromagnetic Donuts: Non-transverse electromagnetic pulses. , 2018, , .		1
106	Extraordinary Properties of Epsilon-Near-Zero and Low-Index Chalcogenide Metamaterials. , 2018, , .		1
107	Breaking up the Anapole: or How to Separate Toroidal and Electric Dipole Excitations in Matter. , 2018, , .		1
108	Enhanced Luminescence of MoS2, WS2 and WSe2, Direct Band Gap Semiconductor Heterostructures. , 2018, , .		1

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109	A Fiberized Metamaterial Device for Ultrafast Control of Coherent Optical Signals. , 2018, , .		0
110	All-Optical Pattern Recognition and Image Processing on a Metamaterial Beam Splitter. ACS Photonics, 2017, 4, 217-222.	6.6	37
111	Novel paradigm for integrated photonics circuits: transient interconnection network. , 2017, , .		4
112	New horizons for nanophotonics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160380.	3.4	3
113	Reconfigurable phase-change photomask for grayscale photolithography. Applied Physics Letters, 2017, 110, .	3.3	22
114	New Super-Oscillatory Technology for Unlabelled Super-Resolution Cellular Imaging with Polarisation Contrast. Biophysical Journal, 2017, 112, 186a.	0.5	6
115	Plasmonic absorption properties of bimetallic metamaterials. Microelectronic Engineering, 2017, 172, 30-34.	2.4	2
116	Coherent selection of invisible high-order electromagnetic excitations. Scientific Reports, 2017, 7, 44488.	3.3	23
117	Organometallic Perovskite Metasurfaces. Advanced Materials, 2017, 29, 1604268.	21.0	118
118	Controlling the Optical Response of 2D Matter in Standing Waves. ACS Photonics, 2017, 4, 3000-3011.	6.6	28
119	Plasmonics of topological insulators at optical frequencies. NPC Asia Materials, 2017, 9, e425-e425.	7.9	65
120	Exciting dynamic anapoles with electromagnetic doughnut pulses. Applied Physics Letters, 2017, 111, .	3.3	34
121	Giant Enhancement of Cathodoluminescence of Monolayer Transitional Metal Dichalcogenides Semiconductors. Nano Letters, 2017, 17, 6475-6480.	9.1	44
122	High-quality metamaterial dispersive grating on the facet of an optical fiber. Applied Physics Letters, 2017, 111, .	3.3	31
123	Spontaneous natural optical activity in disordered media. Physical Review B, 2017, 95, .	3.2	12
124	The century of metamaterials. Journal of Optics (United Kingdom), 2017, 19, 080404.	2.2	11
125	Metamaterials at the University of Southampton and beyond. Journal of Optics (United Kingdom), 2017, 19, 084009.	2.2	5
126	Electro-mechanical light modulator based on controlling the interaction of light with a metasurface. Scientific Reports, 2017, 7, 5405.	3.3	15



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127	Many-Body Subradiant Excitations in Metamaterial Arrays: Experiment and Theory. Physical Review Letters, 2017, 119, 053901.	7.8	73
128	Visible Range Plasmonic Modes on Topological Insulator Nanostructures. Advanced Optical Materials, 2017, 5, 1600768.	7.3	55
129	Nanopatterning-enhanced perovskite luminophores. , 2017, , .		0
130	Coherent absorption of two-photon states in metamaterials. , 2017, , .		0
131	Ultra confined polaritons in atomically layered dielectrics. , 2017, , .		0
132	Optical bistability in optomechanical metamaterial at sub-milliwatt power levels. , 2017, , .		0
133	Metamaterials: Optical properties on demand. , 2017, , .		0
134	Generation of electromagnetic doughnuts. , 2017, , .		1
135	11-fs dark pulses generated via coherent absorption in plasmonic metamaterial. Optics Express, 2017, 25, 22620.	3.4	12
136	Achromatic super-oscillatory lenses with sub-wavelength focusing. Light: Science and Applications, 2017, 6, e17036-e17036.	16.6	121
137	Plasmonic properties of superconducting niobium in the optical part of the spectrum. , 2017, , .		1
138	Dissipative optical switch for coherent fibre networks with 100 THz bandwidth. , 2017, , .		1
139	Combinatorial search for plasmonic and epsilon-near-zero chalcogenide alloys. , 2017, , .		0
140	Merging Photonic Metamaterial and Optical Fiber Technologies. , 2017, , .		0
141	Plasmonic toroidal excitation with engineering metamaterials. , 2017, , .		0
142	Giant Nonlinearity of an Optically Reconfigurable Plasmonic Metamaterial. Advanced Materials, 2016, 28, 729-733.	21.0	82
143	Nano- and Micro- Auxetic Plasmonic Materials. Advanced Materials, 2016, 28, 5176-5180.	21.0	32
144	Holographic free-electron light source. Nature Communications, 2016, 7, 13705.	12.8	66

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145	All-Optical Implementation of the Ant Colony Optimization Algorithm. Scientific Reports, 2016, 6, 26283.	3.3	8
146	Giant nonlinearity in a superconducting sub-terahertz metamaterial. Applied Physics Letters, 2016, 108, .	3.3	24
147	Templated assembly of metal nanoparticle films on polymer substrates. Applied Physics Letters, 2016, 109, 263105.	3.3	3
148	Random access actuation of nanowire grid metamaterial. Nanotechnology, 2016, 27, 485206.	2.6	16
149	Coherent control of light-matter interactions in polarization standing waves. Scientific Reports, 2016, 6, 31141.	3.3	35
150	Specular optical activity of achiral metasurfaces. Applied Physics Letters, 2016, 108, .	3.3	29
151	Invited Article: All-optical multichannel logic based on coherent perfect absorption in a plasmonic metamaterial. APL Photonics, 2016, 1, .	5.7	47
152	All-dielectric phase-change reconfigurable metasurface. Applied Physics Letters, 2016, 109, .	3.3	214
153	Metadevice for intensity modulation with sub-wavelength spatial resolution. Scientific Reports, 2016, 6, 37109.	3.3	15
154	Atomic Response in the Near-Field of Nanostructured Plasmonic Metamaterial. Nano Letters, 2016, 16, 3137-3141.	9.1	38
155	Two-dimensional control of light with light on metasurfaces. Light: Science and Applications, 2016, 5, e16070-e16070.	16.6	106
156	Doppler-free approach to optical pumping dynamics in the $6S_{1/2} \rightarrow 5D_{5/2}$ electric quadrupole transition of cesium vapor. Optics Letters, 2016, 41, 2005.	3.3	25
157	Spatial optical phase-modulating metadevice with subwavelength pixelation. Optics Express, 2016, 24, 18790.	3.4	16
158	Quantum super-oscillation of a single photon. Light: Science and Applications, 2016, 5, e16127-e16127.	16.6	41
159	Toroidal circular dichroism. Physical Review B, 2016, 94, .	3.2	57
160	Focused electromagnetic doughnut pulses and their interaction with interfaces and nanostructures. Optics Express, 2016, 24, 3150.	3.4	24
161	Coherent Excitation-Selective Spectroscopy of Multipole Resonances. Physical Review Applied, 2016, 5, .	3.8	43
162	Toroidal dipole excitations in metamolecules formed by interacting plasmonic nanorods. Physical Review B, 2016, 93, .	3.2	38

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163	Sharp Toroidal Resonances in Planar Terahertz Metasurfaces. <i>Advanced Materials</i> , 2016, 28, 8206-8211.	21.0	148
164	Randomly addressable photonic metamaterials. , 2016, , .		0
165	Planar toroidal metamaterials. , 2016, , .		0
166	Plasmonic metadevices by vertical split ring resonator. , 2016, , .		0
167	Introducing the metamaterial roadmap. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 090201.	2.2	2
168	Electromagnetic toroidal excitations in matter and free space. <i>Nature Materials</i> , 2016, 15, 263-271.	27.5	433
169	Optically reconfigurable metasurfaces and photonic devices based on phase change materials. <i>Nature Photonics</i> , 2016, 10, 60-65.	31.4	918
170	Reconfigurable nanomechanical photonic metamaterials. <i>Nature Nanotechnology</i> , 2016, 11, 16-22.	31.5	273
171	All-optical Image Recognition and Processing with Plasmonic Metasurfaces. , 2016, , .		1
172	Shape Memory Photonic Metamaterial. , 2016, , .		1
173	Visible Range Plasmons in Topological Insulators. , 2016, , .		1
174	All-Optical Image Recognition Using Metamaterials. , 2016, , .		1
175	Sub-GHz Modulation of Light with Dielectric Nanomechanical Metamaterials. , 2016, , .		0
176	Plasmonic metal-cored fibres. , 2016, , .		0
177	Tailoring Optical Super-Oscillations with Metasurfaces. , 2016, , .		0
178	Metasurface Holographic Light Sources Driven by Electron Beam. , 2016, , .		0
179	Reconfigurable hyperbolic metamaterial with negative refraction. , 2016, , .		2
180	Playing a Metamaterial Guitar with Light: Optically Addressable Nanomechanical Metamaterial. , 2016, , .		0

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181	Dielectric Metamaterials with Toroidal Dipolar Response. <i>Physical Review X</i> , 2015, 5, .	8.9	145
182	Nano-optomechanical nonlinear dielectric metamaterials. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	61
183	Geometries for the coherent control of four-wave mixing in graphene multilayers. <i>Scientific Reports</i> , 2015, 5, 15399.	3.3	18
184	A Flat Lens with Tunable Phase Gradient by Using Random Access Reconfigurable Metamaterial. <i>Advanced Materials</i> , 2015, 27, 4739-4743.	21.0	121
185	The reduction of surface plasmon losses in quasi-suspended graphene. <i>Scientific Reports</i> , 2015, 5, 9837.	3.3	18
186	Chiral mirrors. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	166
187	Coherent perfect absorption in deeply subwavelength films in the single-photon regime. <i>Nature Communications</i> , 2015, 6, 7031.	12.8	160
188	Obtaining optical properties on demand. <i>Science</i> , 2015, 348, 973-974.	12.6	101
189	A new type of optical activity in a toroidal metamaterial. , 2015, , .		0
190	Fabrication and measurement of vertical split-ring resonators for light manipulation and metasurface. , 2015, , .		0
191	Reconfigurable and coherently controlled photonic metamaterials: A platform for optical properties on demand. , 2015, , .		0
192	Wavevector Selective Metasurfaces and Tunnel Vision Filters. <i>Light: Science and Applications</i> , 2015, 4, e306-e306.	16.6	30
193	Vertical split-ring resonators based plasmon coupling, nanophotonic sensing and light manipulation. , 2015, , .		0
194	Electrically Controlled Nanostructured Metasurface Loaded with Liquid Crystal: Toward Multifunctional Photonic Switch. <i>Advanced Optical Materials</i> , 2015, 3, 674-679.	7.3	170
195	<i>Journal of Optics</i>: our strategy for the future. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 010201.	2.2	1
196	Coherent control of optical polarization effects in metamaterials. <i>Scientific Reports</i> , 2015, 5, 8977.	3.3	54
197	Plasmon coupling in vertical split-ring resonator metamolecules. <i>Scientific Reports</i> , 2015, 5, 9726.	3.3	71
198	Controlling light with light using coherent metadevices: all-optical transistor, summator and inverter. <i>Light: Science and Applications</i> , 2015, 4, e292-e292.	16.6	130

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199	A magneto-electro-optical effect in a plasmonic nanowire material. Nature Communications, 2015, 6, 7021.	12.8	118
200	Effect of Zn(O,S) buffer layer thickness on charge carrier relaxation dynamics of CuInSe <sub>2</sub> solar cell. Solar Energy, 2015, 115, 396-404.	6.1	18
201	Reconfiguring photonic metamaterials with currents and magnetic fields. Applied Physics Letters, 2015, 106, .	3.3	38
202	Plasmon coupling in vertical split-ring resonator magnetic metamolecules. , 2015, , .		1
203	Amplification of the Evanescent Field of Free Electrons. ACS Photonics, 2015, 2, 1236-1240.	6.6	36
204	Super-Oscillatory Imaging of Nanoparticle Interactions with Neurons. Biophysical Journal, 2015, 108, 479a.	0.5	5
205	Optically switchable photonic metasurfaces. Applied Physics Letters, 2015, 107, .	3.3	36
206	Optical toroidal response in three-dimensional plasmonic metamaterial. , 2015, , .		4
207	Vertical split-ring resonators for plasmon coupling, sensing and metasurface. Proceedings of SPIE, 2015, , .	0.8	1
208	Lorentz Force Metamaterial with Giant Optical Magnetoelectric Response. , 2014, , .		1
209	Optical Properties on Demand: Reconfigurable and Coherently Controlled Metamaterials. , 2014, , .		0
210	Optical properties on demand (2): Coherent control of metamaterials and metadevices. , 2014, , .		0
211	An optical fiber network oracle for NP-complete problems. Light: Science and Applications, 2014, 3, e147-e147.	16.6	47
212	Coherent control of Snell's law at metasurfaces. Optics Express, 2014, 22, 21051.	3.4	84
213	Giant magnetic modulation of a planar, hybrid metamolecule resonance. New Journal of Physics, 2014, 16, 063002.	2.9	20
214	Metamaterial NEMS: Giant optical nonlinearity and magnetoelectric effect. , 2014, , .		0
215	Plasmonic Nanowire Continuum Light Source. , 2014, , .		1
216	Wavevector selective surface. , 2014, , .		1

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217	Plasmonic Super-oscillations and Sub-Diffraction Focusing. , 2014, , .		1
218	Planar Superconducting Toroidal Metamaterial: A Source for Oscillating Vector-Potential?. , 2014, , .		0
219	Tunable Liquid Crystal-loaded Metasurfaces for IR and THz Applications. , 2014, , .		0
220	Giant Kerr Rotation Enhancement in Magneto-plasmonic Metamaterials. , 2014, , .		4
221	Coherent Excitation-Selective Spectroscopy in Planar Metamaterials. , 2014, , .		1
222	Controlling Light with Light in a Plasmonic Nanooptomechanical Metamaterial. , 2014, , .		1
223	Photophysical investigation of charge recombination in CdS/ZnO layers of CuIn(S,Se) <sub>2</sub> solar cell. RSC Advances, 2014, 4, 58372-58376.	3.6	5
224	Metamaterials: From 3D Plasmonic Nanostructure to Reflective Metasurface. , 2014, , .		0
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