

Nikolay I Zheludev

List of Publications by Year in Descending Order

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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.

423
papers

28,721
citations

85
h-index

160
g-index

611
ext. papers

33,407
ext. citations

7.2
avg, IF

7.55
L-index

#	Paper	IF	Citations
423	Thermal Fluctuations of the Optical Properties of Nanomechanical Photonic Metamaterials. <i>Advanced Optical Materials</i> , 2022 , 10, 2101591	8.1	2
422	Supertoroidal light pulses as electromagnetic skyrmions propagating in free space. <i>Nature Communications</i> , 2021 , 12, 5891	17.4	14
421	Artificial intelligence for photonics and photonic materials. <i>Reports on Progress in Physics</i> , 2021 , 84, 0124014	14.4	14
420	Measures of space-time nonseparability of electromagnetic pulses. <i>Physical Review Research</i> , 2021 , 3,	3.9	9
419	Second harmonic generation in amorphous silicon-on-silica metamaterial. <i>APL Photonics</i> , 2021 , 6, 0361105	5.2	2
418	Cellular automata dynamics of nonlinear optical processes in a phase-change material. <i>Applied Physics Reviews</i> , 2021 , 8, 011404	17.3	2
417	Topological insulator metamaterial with giant circular photogalvanic effect. <i>Science Advances</i> , 2021 , 7,	14.3	3
416	Gigahertz Nano-Optomechanical Resonances in a Dielectric SiC-Membrane Metasurface Array. <i>Nano Letters</i> , 2021 , 21, 4563-4569	11.5	4
415	Deeply sub-wavelength non-contact optical metrology of sub-wavelength objects. <i>APL Photonics</i> , 2021 , 6, 066107	5.2	3
414	Optical magnetic response without metamaterials. <i>APL Photonics</i> , 2021 , 6, 071303	5.2	0
413	Germanium-on-Carborundum Surface Phonon-Polariton Infrared Metamaterial. <i>Advanced Optical Materials</i> , 2021 , 9, 2001652	8.1	2
412	Electrogyration in Metamaterials: Chirality and Polarization Rotatory Power that Depend on Applied Electric Field. <i>Advanced Optical Materials</i> , 2021 , 9, 2001826	8.1	4
411	Detection of sub-atomic movement in nanostructures. <i>Nanoscale Advances</i> , 2021 , 3, 2213-2216	5.1	
410	Observation of Toroidal Light Pulses 2021 ,		4
409	Visualization of Subatomic Movements in Nanostructures. <i>Nano Letters</i> , 2021 , 21, 7746-7752	11.5	3
408	Plasmono-atomic interactions on a fiber tip. <i>Applied Physics Letters</i> , 2020 , 116, 183101	3.4	4
407	Near-field mapping of the edge mode of a topological valley slab waveguide at $\epsilon = 1.55 \epsilon_0$. <i>Applied Physics Letters</i> , 2020 , 116, 191105	3.4	6

406	Infrared dielectric metamaterials from high refractive index chalcogenides. <i>Nature Communications</i> , 2020 , 11, 1692	17.4	22
405	Label-free deeply subwavelength optical microscopy. <i>Applied Physics Letters</i> , 2020 , 116, 131105	3.4	12
404	Resonant nanostructures for highly confined and ultra-sensitive surface phonon-polaritons. <i>Nature Communications</i> , 2020 , 11, 1863	17.4	22
403	Phase stabilization of a coherent fiber network by single-photon counting. <i>Optics Letters</i> , 2020 , 45, 27403-2743 2	3.4	5
402	Ultraviolet hollow-core waveguides with sub-unitary index chalcogenide cladding. <i>Optical Materials Express</i> , 2020 , 10, 2254	2.6	1
401	Building Blocks for Quantum Network Based on Group-IV Split-Vacancy Centers in Diamond. <i>Advanced Quantum Technologies</i> , 2020 , 3, 1900069	4.3	10
400	Metamaterial Enhancement of Metal-Halide Perovskite Luminescence. <i>Nano Letters</i> , 2020 , 20, 7906-7911 11.5	11.5	9
399	Superoscillatory quartz lens with effective numerical aperture greater than one. <i>Applied Physics Letters</i> , 2020 , 117, 021106	3.4	5
398	Far-field unlabeled super-resolution imaging with superoscillatory illumination. <i>APL Photonics</i> , 2020 , 5, 066107	5.2	14
397	Enhancement of luminescence of quantum emitters in epsilon-near-zero waveguides. <i>Applied Physics Letters</i> , 2020 , 117, 181104	3.4	6
396	Space-time nonseparable pulses: Constructing isodiffracting donut pulses from plane waves and single-cycle pulses. <i>Physical Review A</i> , 2020 , 102,	2.6	5
395	Unlabeled Far-Field Deeply Subwavelength Topological Microscopy (DSTM). <i>Advanced Science</i> , 2020 , 8, 2002886	13.6	8
394	Singularities in the flying electromagnetic doughnuts. <i>Nanophotonics</i> , 2019 , 8, 1379-1385	6.3	12
393	Far-Field Superoscillatory Metamaterial Superlens. <i>Physical Review Applied</i> , 2019 , 11,	4.3	48
392	Detecting nanometric displacements with optical ruler metrology. <i>Science</i> , 2019 , 364, 771-775	33.3	58
391	Roadmap on superoscillations. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 053002	1.7	59
390	Cryptography in coherent optical information networks using dissipative metamaterial gates. <i>APL Photonics</i> , 2019 , 4, 046102	5.2	6
389	Room temperature nanocavity laser with interlayer excitons in 2D heterostructures. <i>Science Advances</i> , 2019 , 5, eaav4506	14.3	53

388	Reconfigurable Ultraviolet and High-Energy Visible Dielectric Metamaterials. <i>Nano Letters</i> , 2019 , 19, 1643-1648	11.5	43
387	Stoichiometric Engineering of Chalcogenide Semiconductor Alloys for Nanophotonic Applications. <i>Advanced Materials</i> , 2019 , 31, e1807083	24	22
386	Optical Gating of Resonance Fluorescence from a Single Germanium Vacancy Color Center in Diamond. <i>Physical Review Letters</i> , 2019 , 123, 033602	7.4	20
385	Coupling of atomic quadrupole transitions with resonant surface plasmons. <i>Physical Review A</i> , 2019 , 99,	2.6	6
384	Roadmap on metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 073002	1.7	69
383	Mechanochromic Reconfigurable Metasurfaces. <i>Advanced Science</i> , 2019 , 6, 1900974	13.6	14
382	Fiber-integrated phase-change reconfigurable optical attenuator. <i>APL Photonics</i> , 2019 , 4, 111301	5.2	8
381	Controlling Light with Light via Interference on Photonic Metamaterials. <i>Springer Series in Optical Sciences</i> , 2019 , 239-265	0.5	
380	Coherent perfect absorption of single photons in a fiber network. <i>Applied Physics Letters</i> , 2019 , 115, 191101	3.4	2
379	Nonlinear control of coherent absorption and its optical signal processing applications. <i>APL Photonics</i> , 2019 , 4, 106109	5.2	1
378	Giant Electro-Optical Effect through Electrostriction in a Nanomechanical Metamaterial. <i>Advanced Materials</i> , 2019 , 31, e1804801	24	12
377	Coherent metamaterial absorption of two-photon states with 40% efficiency. <i>Physical Review A</i> , 2019 , 99,	2.6	13
376	"Plasmonics" in free space: observation of giant wavevectors, vortices, and energy backflow in superoscillatory optical fields. <i>Light: Science and Applications</i> , 2019 , 8, 2	16.7	32
375	Ultrafast Coherent Absorption in Diamond Metamaterials. <i>Advanced Materials</i> , 2018 , 30, e1707354	24	11
374	Roadmap on plasmonics. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 043001	1.7	174
373	Light, the universe and everything – 2 Herculean tasks for quantum cowboys and black diamond skiers. <i>Journal of Modern Optics</i> , 2018 , 65, 1261-1308	1.1	5
372	Optical Anapole Metamaterial. <i>ACS Nano</i> , 2018 , 12, 1920-1927	16.7	142
371	Fibre-optic metadvice for all-optical signal modulation based on coherent absorption. <i>Nature Communications</i> , 2018 , 9, 182	17.4	48

370	Direction-division multiplexed holographic free-electron-driven light sources. <i>Applied Physics Letters</i> , 2018 , 112, 021109	3.4	5
369	Ultra-confined surface phonon polaritons in molecular layers of van der Waals dielectrics. <i>Nature Communications</i> , 2018 , 9, 1762	17.4	41
368	All-optical dynamic focusing of light via coherent absorption in a plasmonic metasurface. <i>Light: Science and Applications</i> , 2018 , 7, 17157	16.7	27
367	Magneto-optical response in bimetallic metamaterials. <i>Nanophotonics</i> , 2018 , 7, 199-206	6.3	16
366	Optical NP problem solver on laser-written waveguide platform. <i>Optics Express</i> , 2018 , 26, 702-710	3.3	11
365	Picosecond all-optical switching and dark pulse generation in a fibre-optic network using a plasmonic metamaterial absorber. <i>Applied Physics Letters</i> , 2018 , 113, 051103	3.4	10
364	Optical bistability in shape-memory nanowire metamaterial array. <i>Applied Physics Letters</i> , 2018 , 113, 021105	3.4	14
363	A Non-Volatile Chalcogenide Switchable Hyperbolic Metamaterial. <i>Advanced Optical Materials</i> , 2018 , 6, 1800332	8.1	14
362	Compositionally controlled plasmonics in amorphous semiconductor metasurfaces. <i>Optics Express</i> , 2018 , 26, 20861-20867	3.3	10
361	Optical addressing of nanomechanical metamaterials with subwavelength resolution. <i>Applied Physics Letters</i> , 2018 , 113, 081104	3.4	4
360	Phase-change-driven dielectric-plasmonic transitions in chalcogenide metasurfaces. <i>NPG Asia Materials</i> , 2018 , 10, 533-539	10.3	76
359	Photonic Metamaterials: Optical Response of Nanohole Arrays Filled with Chalcogenide Low-Epsilon Media (Advanced Optical Materials 22/2018). <i>Advanced Optical Materials</i> , 2018 , 6, 1870088	8.1	
358	Strong interactions and subradiance in disordered metamaterials. <i>Physical Review B</i> , 2018 , 98,	3.3	7
357	All-dielectric free-electron-driven holographic light sources. <i>Applied Physics Letters</i> , 2018 , 113, 241902	3.4	4
356	Reconfigurable MEMS Fano metasurfaces with multiple-input-output states for logic operations at terahertz frequencies. <i>Nature Communications</i> , 2018 , 9, 4056	17.4	124
355	Optical Response of Nanohole Arrays Filled with Chalcogenide Low-Epsilon Media. <i>Advanced Optical Materials</i> , 2018 , 6, 1800395	8.1	11
354	Switchable Metamaterials: A Non-Volatile Chalcogenide Switchable Hyperbolic Metamaterial (Advanced Optical Materials 19/2018). <i>Advanced Optical Materials</i> , 2018 , 6, 1870074	8.1	
353	Pulse generation scheme for flying electromagnetic doughnuts. <i>Physical Review B</i> , 2018 , 97,	3.3	19

352	All-Optical Pattern Recognition and Image Processing on a Metamaterial Beam Splitter. <i>ACS Photonics</i> , 2017 , 4, 217-222	6.3	27
351	Novel paradigm for integrated photonics circuits: transient interconnection network 2017 ,		4
350	New horizons for nanophotonics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	2
349	Reconfigurable phase-change photomask for grayscale photolithography. <i>Applied Physics Letters</i> , 2017 , 110, 201110	3.4	15
348	New Super-Oscillatory Technology for Unlabelled Super-Resolution Cellular Imaging with Polarisation Contrast. <i>Biophysical Journal</i> , 2017 , 112, 186a	2.9	3
347	Plasmonic absorption properties of bimetallic metamaterials. <i>Microelectronic Engineering</i> , 2017 , 172, 30-34	2.5	2
346	Coherent selection of invisible high-order electromagnetic excitations. <i>Scientific Reports</i> , 2017 , 7, 44488	4.9	18
345	Organometallic Perovskite Metasurfaces. <i>Advanced Materials</i> , 2017 , 29, 1604268	24	85
344	Controlling the Optical Response of 2D Matter in Standing Waves. <i>ACS Photonics</i> , 2017 , 4, 3000-3011	6.3	20
343	Plasmonics of topological insulators at optical frequencies. <i>NPG Asia Materials</i> , 2017 , 9, e425-e425	10.3	43
342	Exciting dynamic anapoles with electromagnetic doughnut pulses. <i>Applied Physics Letters</i> , 2017 , 111, 081104	3.4	22
341	Giant Enhancement of Cathodoluminescence of Monolayer Transitional Metal Dichalcogenides Semiconductors. <i>Nano Letters</i> , 2017 , 17, 6475-6480	11.5	30
340	High-quality metamaterial dispersive grating on the facet of an optical fiber. <i>Applied Physics Letters</i> , 2017 , 111, 091106	3.4	22
339	Spontaneous natural optical activity in disordered media. <i>Physical Review B</i> , 2017 , 95,	3.3	6
338	The century of metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 080404	1.7	9
337	Metamaterials at the University of Southampton and beyond. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 084009	1.7	4
336	Electro-mechanical light modulator based on controlling the interaction of light with a metasurface. <i>Scientific Reports</i> , 2017 , 7, 5405	4.9	10
335	Many-Body Subradiant Excitations in Metamaterial Arrays: Experiment and Theory. <i>Physical Review Letters</i> , 2017 , 119, 053901	7.4	54

334	Visible Range Plasmonic Modes on Topological Insulator Nanostructures. <i>Advanced Optical Materials</i> , 2017 , 5, 1600768	8.1	44
333	11-fs dark pulses generated via coherent absorption in plasmonic metamaterial. <i>Optics Express</i> , 2017 , 25, 22620-22625	3.3	12
332	Achromatic super-oscillatory lenses with sub-wavelength focusing. <i>Light: Science and Applications</i> , 2017 , 6, e17036	16.7	79
331	Quantum super-oscillation of a single photon. <i>Light: Science and Applications</i> , 2016 , 5, e16127	16.7	28
330	Toroidal circular dichroism. <i>Physical Review B</i> , 2016 , 94,	3.3	42
329	Focused electromagnetic doughnut pulses and their interaction with interfaces and nanostructures. <i>Optics Express</i> , 2016 , 24, 3150-61	3.3	16
328	Coherent Excitation-Selective Spectroscopy of Multipole Resonances. <i>Physical Review Applied</i> , 2016 , 5,	4.3	37
327	Toroidal dipole excitations in metamolecules formed by interacting plasmonic nanorods. <i>Physical Review B</i> , 2016 , 93,	3.3	29
326	Sharp Toroidal Resonances in Planar Terahertz Metasurfaces. <i>Advanced Materials</i> , 2016 , 28, 8206-8211	24	115
325	Introducing the metamaterial roadmap. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 090201	1.7	1
324	Electromagnetic toroidal excitations in matter and free space. <i>Nature Materials</i> , 2016 , 15, 263-71	27	304
323	Optically reconfigurable metasurfaces and photonic devices based on phase change materials. <i>Nature Photonics</i> , 2016 , 10, 60-65	33.9	652
322	Reconfigurable nanomechanical photonic metamaterials. <i>Nature Nanotechnology</i> , 2016 , 11, 16-22	28.7	215
321	All-Optical Image Recognition Using Metamaterials 2016 ,		1
320	Reconfigurable hyperbolic metamaterial with negative refraction 2016 ,		2
319	Giant Nonlinearity of an Optically Reconfigurable Plasmonic Metamaterial. <i>Advanced Materials</i> , 2016 , 28, 729-33	24	73
318	Nano- and Micro-Auxetic Plasmonic Materials. <i>Advanced Materials</i> , 2016 , 28, 5176-80	24	24
317	Holographic free-electron light source. <i>Nature Communications</i> , 2016 , 7, 13705	17.4	52

316	All-Optical Implementation of the Ant Colony Optimization Algorithm. <i>Scientific Reports</i> , 2016 , 6, 26283	4.9	7
315	Giant nonlinearity in a superconducting sub-terahertz metamaterial. <i>Applied Physics Letters</i> , 2016 , 108, 101107	3.4	16
314	Templated assembly of metal nanoparticle films on polymer substrates. <i>Applied Physics Letters</i> , 2016 , 109, 263105	3.4	3
313	Random access actuation of nanowire grid metamaterial. <i>Nanotechnology</i> , 2016 , 27, 485206	3.4	11
312	Coherent control of light-matter interactions in polarization standing waves. <i>Scientific Reports</i> , 2016 , 6, 31141	4.9	25
311	Specular optical activity of achiral metasurfaces. <i>Applied Physics Letters</i> , 2016 , 108, 141905	3.4	23
310	All-optical multichannel logic based on coherent perfect absorption in a plasmonic metamaterial. <i>APL Photonics</i> , 2016 , 1, 090801	5.2	33
309	All-dielectric phase-change reconfigurable metasurface. <i>Applied Physics Letters</i> , 2016 , 109, 051103	3.4	161
308	Metadevice for intensity modulation with sub-wavelength spatial resolution. <i>Scientific Reports</i> , 2016 , 6, 37109	4.9	11
307	Atomic Response in the Near-Field of Nanostructured Plasmonic Metamaterial. <i>Nano Letters</i> , 2016 , 16, 3137-41	11.5	32
306	Two-dimensional control of light with light on metasurfaces. <i>Light: Science and Applications</i> , 2016 , 5, e16070	16.7	81
305	Doppler-free approach to optical pumping dynamics in the $6S_{1/2}$ - $5D_{5/2}$ electric quadrupole transition of cesium vapor. <i>Optics Letters</i> , 2016 , 41, 2005-8	3	14
304	Spatial optical phase-modulating metadvice with subwavelength pixelation. <i>Optics Express</i> , 2016 , 24, 18790-8	3.3	12
303	Coherent control of optical polarization effects in metamaterials. <i>Scientific Reports</i> , 2015 , 5, 8977	4.9	44
302	Plasmon coupling in vertical split-ring resonator metamolecules. <i>Scientific Reports</i> , 2015 , 5, 9726	4.9	53
301	Controlling light with light using coherent metadvice: all-optical transistor, summator and inverter. <i>Light: Science and Applications</i> , 2015 , 4, e292-e292	16.7	94
300	A magneto-electro-optical effect in a plasmonic nanowire material. <i>Nature Communications</i> , 2015 , 6, 7021	17.4	94
299	Effect of Zn(O,S) buffer layer thickness on charge carrier relaxation dynamics of CuInSe ₂ solar cell. <i>Solar Energy</i> , 2015 , 115, 396-404	6.8	16

298	Reconfiguring photonic metamaterials with currents and magnetic fields. <i>Applied Physics Letters</i> , 2015 , 106, 111905	3.4	29
297	Amplification of the Evanescent Field of Free Electrons. <i>ACS Photonics</i> , 2015 , 2, 1236-1240	6.3	19
296	Super-Oscillatory Imaging of Nanoparticle Interactions with Neurons. <i>Biophysical Journal</i> , 2015 , 108, 479a	2.9	4
295	Optically switchable photonic metasurfaces. <i>Applied Physics Letters</i> , 2015 , 107, 081102	3.4	29
294	Optical toroidal response in three-dimensional plasmonic metamaterial 2015 ,		3
293	Vertical split-ring resonators for plasmon coupling, sensing and metasurface 2015 ,		1
292	Dielectric Metamaterials with Toroidal Dipolar Response. <i>Physical Review X</i> , 2015 , 5,	9.1	96
291	Nano-optomechanical nonlinear dielectric metamaterials. <i>Applied Physics Letters</i> , 2015 , 107, 191110	3.4	49
290	Geometries for the coherent control of four-wave mixing in graphene multilayers. <i>Scientific Reports</i> , 2015 , 5, 15399	4.9	17
289	A flat lens with tunable phase gradient by using random access reconfigurable metamaterial. <i>Advanced Materials</i> , 2015 , 27, 4739-43	24	92
288	The reduction of surface plasmon losses in quasi-suspended graphene. <i>Scientific Reports</i> , 2015 , 5, 9837	4.9	18
287	Chiral mirrors. <i>Applied Physics Letters</i> , 2015 , 106, 221901	3.4	115
286	Coherent perfect absorption in deeply subwavelength films in the single-photon regime. <i>Nature Communications</i> , 2015 , 6, 7031	17.4	114
285	Applied physics. Obtaining optical properties on demand. <i>Science</i> , 2015 , 348, 973-4	33.3	81
284	Wavevector Selective Metasurfaces and Tunnel Vision Filters. <i>Light: Science and Applications</i> , 2015 , 4, e306-e306	16.7	23
283	Electrically Controlled Nanostructured Metasurface Loaded with Liquid Crystal: Toward Multifunctional Photonic Switch. <i>Advanced Optical Materials</i> , 2015 , 3, 674-679	8.1	126
282	Planar super-oscillatory lens for sub-diffraction optical needles at violet wavelengths. <i>Scientific Reports</i> , 2014 , 4, 6333	4.9	93
281	Ultrafast all-optical switching via coherent modulation of metamaterial absorption. <i>Applied Physics Letters</i> , 2014 , 104, 141102	3.4	113

280	Plasmonic nanoclocks. <i>Nano Letters</i> , 2014 , 14, 5162-9	11.5	8
279	Giant optical forces in planar dielectric photonic metamaterials. <i>Optics Letters</i> , 2014 , 39, 4883-6	3	30
278	Ultraviolet and visible range plasmonics in the topological insulator Bi _{1.5} Sb _{0.5} Te _{1.8} Se _{1.2} . <i>Nature Communications</i> , 2014 , 5, 5139	17.4	101
277	An optical fiber network oracle for NP-complete problems. <i>Light: Science and Applications</i> , 2014 , 3, e147-6147	6.17	33
276	Coherent control of Snell's law at metasurfaces. <i>Optics Express</i> , 2014 , 22, 21051-60	3.3	70
275	Giant magnetic modulation of a planar, hybrid metamolecule resonance. <i>New Journal of Physics</i> , 2014 , 16, 063002	2.9	19
274	Plasmonic Nanowire Continuum Light Source 2014 ,		1
273	Wavevector selective surface 2014 ,		1
272	Giant Kerr Rotation Enhancement in Magneto-plasmonic Metamaterials 2014 ,		3
271	Coherent Excitation-Selective Spectroscopy in Planar Metamaterials 2014 ,		1
270	Photophysical investigation of charge recombination in CdS/ZnO layers of CuIn(S,Se) ₂ solar cell. <i>RSC Advances</i> , 2014 , 4, 58372-58376	3.7	3
269	Flat super-oscillatory lens for heat-assisted magnetic recording with sub-50 nm resolution. <i>Optics Express</i> , 2014 , 22, 6428-37	3.3	41
268	Computing matrix inversion with optical networks. <i>Optics Express</i> , 2014 , 22, 295-304	3.3	20
267	Coherent control of birefringence and optical activity. <i>Applied Physics Letters</i> , 2014 , 105, 011906	3.4	39
266	Toroidal dipolar excitation and macroscopic electromagnetic properties of metamaterials. <i>Physical Review B</i> , 2014 , 89,	3.3	180
265	Controlling light on the nanoscale with chalcogenide thin films 2014 , 471-508		2
264	Point spread function of the optical needle super-oscillatory lens. <i>Applied Physics Letters</i> , 2014 , 104, 231109	3.4	41
263	1.7 Gbit/in. ² gray-scale continuous-phase-change femtosecond image storage. <i>Applied Physics Letters</i> , 2014 , 104, 121105	3.4	47

262	Fiber optic probe of free electron evanescent fields in the optical frequency range. <i>Applied Physics Letters</i> , 2014 , 104, 201101	3.4	11
261	Computing with complex optical networks 2014 ,		1
260	Three-dimensional metamaterials: from split ring resonator to toroidal metamolecule 2014 ,		5
259	Using Nonlinear Optical Networks for Optimization: Primer of the Ant Colony Algorithm 2014 ,		1
258	The magnetic response of graphene split-ring metamaterials. <i>Light: Science and Applications</i> , 2013 , 2, e78-e78	16.7	107
257	Ray-optics cloaking devices for large objects in incoherent natural light. <i>Nature Communications</i> , 2013 , 4, 2652	17.4	112
256	Resonant transparency and non-trivial non-radiating excitations in toroidal metamaterials. <i>Scientific Reports</i> , 2013 , 3, 2967	4.9	188
255	Optical super-oscillations: sub-wavelength light focusing and super-resolution imaging. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 094008	1.7	124
254	Non-radiating excitations, vector potential waves and toroidal metamaterials 2013 ,		1
253	An electromechanically reconfigurable plasmonic metamaterial operating in the near-infrared. <i>Nature Nanotechnology</i> , 2013 , 8, 252-5	28.7	264
252	Toroidal lasing spaser. <i>Scientific Reports</i> , 2013 , 3, 1237	4.9	99
251	An all-optical, non-volatile, bidirectional, phase-change meta-switch. <i>Advanced Materials</i> , 2013 , 25, 3050-4		306
250	Sub-wavelength focusing meta-lens. <i>Optics Express</i> , 2013 , 21, 7577-82	3.3	49
249	Magnetic control of a meta-molecule. <i>Optics Express</i> , 2013 , 21, 1456-64	3.3	39
248	Electro-optical control in a plasmonic metamaterial hybridised with a liquid-crystal cell. <i>Optics Express</i> , 2013 , 21, 1633-8	3.3	84
247	Controlling intensity and phase of terahertz radiation with an optically thin liquid crystal-loaded metamaterial. <i>Applied Physics Letters</i> , 2013 , 103, 141904	3.4	40
246	Optical generation of intense ultrashort magnetic pulses at the nanoscale. <i>New Journal of Physics</i> , 2013 , 15, 113035	2.9	13
245	Near-infrared trapped mode magnetic resonance in an all-dielectric metamaterial. <i>Optics Express</i> , 2013 , 21, 26721-8	3.3	127

244	Tuning the influence of metal nanoparticles on ZnO photoluminescence by atomic-layer-deposited dielectric spacer. <i>Nanophotonics</i> , 2013 , 2, 153-160	6.3	23
243	Super-oscillatory optical needle. <i>Applied Physics Letters</i> , 2013 , 102, 031108	3.4	98
242	Radiation-harvesting resonant superconducting sub-THz metamaterial bolometer. <i>Superconductor Science and Technology</i> , 2013 , 26, 084001	3.1	22
241	Nonlinear dielectric optomechanical metamaterials. <i>Light: Science and Applications</i> , 2013 , 2, e96-e96	16.7	57
240	Terahertz Bandwidth Optical Nonlinearity of Graphene Metamaterial 2012 ,		1
239	Electron-beam-driven collective-mode metamaterial light source. <i>Physical Review Letters</i> , 2012 , 109, 217401	7.4	61
238	From metamaterials to metadevices. <i>Nature Materials</i> , 2012 , 11, 917-24	27	1289
237	Transformation optofluidics for large-angle light bending and tuning. <i>Lab on A Chip</i> , 2012 , 12, 3785-90	7.2	32
236	Microelectromechanical Maltese-cross metamaterial with tunable terahertz anisotropy. <i>Nature Communications</i> , 2012 , 3, 1274	17.4	167
235	Plasmon spectroscopy and imaging of individual gold nanodecahedra: a combined optical microscopy, cathodoluminescence, and electron energy-loss spectroscopy study. <i>Nano Letters</i> , 2012 , 12, 4172-80	11.5	120
234	Localization of electromagnetic fields in disordered metamaterials. <i>Physical Review B</i> , 2012 , 85,	3.3	17
233	Low-loss terahertz superconducting plasmonics. <i>New Journal of Physics</i> , 2012 , 14, 115006	2.9	26
232	"Digitally" addressable focusing of light into a subwavelength hot spot. <i>Nano Letters</i> , 2012 , 12, 2728-31	11.5	27
231	THz bandwidth optical switching with carbon nanotube metamaterial. <i>Optics Express</i> , 2012 , 20, 6068-79	3.3	41
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