Igor Minin

List of Publications by Year in descending order

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217 papers	2,935 citations	201575 27 h-index	243529 44 g-index
228 all docs	228 docs citations	228 times ranked	1002 citing authors

#	Article	IF	Citations
1	Terahertz microscope with oblique subwavelength illumination: design principle. Quantum Electronics, 2022, 52, 13-16.	0.3	13
2	In-plane subwavelength optical capsule for lab-on-a-chip nano-tweezers. Optics Letters, 2022, 47, 794.	1.7	4
3	Optical Force on a Metal Nanorod Exerted by a Photonic Jet. Nanomaterials, 2022, 12, 251.	1.9	2
4	Photonic lenses with whispering gallery waves at Janus particles. , 2022, 1, 210008-210008.		9
5	Near-Field Light-Bending Photonic Switch: Physics of Switching Based on Three-Dimensional Poynting Vector Analysis. Photonics, 2022, 9, 154.	0.9	12
6	Whispering-gallery modes promote enhanced optical backflow in a perforated dielectric microsphere. Optics Letters, 2022, 47, 1786.	1.7	7
7	Concept of photonic hook scalpel generated by shaped fiber tip with asymmetric radiation. Journal of Biophotonics, 2021, 14, e202000342.	1.1	12
8	Photonic Hook Main Properties. SpringerBriefs in Physics, 2021, , 1-22.	0.2	1
9	Plasmonic Hook. SpringerBriefs in Physics, 2021, , 55-67.	0.2	0
10	Formation of a Photon Hook by a Symmetric Particle in a Structured Light Beam. SpringerBriefs in Physics, 2021, , 23-37.	0.2	0
11	Optical light confinement in terahertz antennas. AIP Conference Proceedings, 2021, , .	0.3	0
12	Short-range Wireless Transmitter Using Mesoscopic Dielectric Cuboid Antenna in 300-GHz Band. , 2021, , .		3
13	Comment on â€œFunctional dielectric microstructure for photonic nanojet generation in reflection modeâ€•by Aleksandr Sergeev and Ksenia Sergeeva, Optical Materials 110 (2020) 110503. Optical Materials, 2021, 112, 110770.	1.7	5
14	A Closer Look at Photonic Nanojets in Reflection Mode: Control of Standing Wave Modulation. Photonics, 2021, 8, 54.	0.9	9
15	Experimental verification of a plasmonic hook in a dielectric Janus particle. Applied Physics Letters, 2021, 118, 131107.	1.5	12
16	Specular-reflection photonic hook generation under oblique illumination of a super-contrast dielectric microparticle. Journal of Optics (United Kingdom), 2021, 23, 045602.	1.0	9
17	Study of focusing parameters of wavelength-scale binary phase Fresnel zone plate. Journal of Optics (United Kingdom), 2021, 23, 065101.	1.0	10
18	Wavelengthâ€Scale Photonic Space Switch Proofâ€Ofâ€Concept Based on Photonic Hook Effect. Annalen Der Physik, 2021, 533, 2100192.	0.9	13

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19	Responsivity enhancement of a strained silicon field-effect transistor detector at 0.3 THz using the terajet effect. Optics Letters, 2021, 46, 3061.	1.7	10
20	Improvement of an InfraRed Pyroelectric Detector Performances in THz Range Using the Terajet Effect. Applied Sciences (Switzerland), 2021, 11, 7011.	1.3	2
21	Multispectral Photonic Jet Shaping and Steering by Control of Tangential Electric Field Component on Cuboid Particle. Photonics, 2021, 8, 317.	0.9	4
22	Simulation and experimental observations of axial position control of a photonic nanojet by a dielectric cube with a metal screen. Optics Letters, 2021, 46, 4292.	1.7	9
23	Photonic Hook Effect Applications. SpringerBriefs in Physics, 2021, , 69-82.	0.2	0
24	The Photonic Hook. SpringerBriefs in Physics, 2021, , .	0.2	19
25	Photonic hook â€“ a new structured sub-wavelength self-bending THz beam. , 2021, , .		0
26	Diffraction limited photonic hook via scattering and diffraction of dual-dielectric structures. Scientific Reports, 2021, 11, 20278.	1.6	9
27	Towards structured SPP manipulation of light at the nanoscale. IOP Conference Series: Materials Science and Engineering, 2021, 1198, 012007.	0.3	0
28	Structured plasmonic beam: in-plane manipulation of light at the nanoscale. IOP Conference Series: Materials Science and Engineering, 2021, 1198, 012008.	0.3	0
29	Plasmonic jets and hooks: towards manipulation of light at the nanoscale. , 2021, , .		0
30	Photonic hook: a new sub-wavelength-scale selfbending light beam. , 2021, , .		0
31	Light Focusing by a Binary Fresnel Zone Plate with Various Design Features. Atmospheric and Oceanic Optics, 2021, 34, 714-721.	0.6	1
32	Optical Phenomena in Mesoscale Dielectric Particles. Photonics, 2021, 8, 591.	0.9	32
33	Dielectric Wavelength-Scaled Metalenses Based on an Anomalous Apodization Effect for Photoconductive Optical-to-Terahertz Switches. , 2021, , .		1
34	Electric and Viscoelastic Parameters of Erythrocytes in Models for Diagnostics of Adenomatous Polyps and Stages of Colorectal Cancer in Optical Detection of Cells in an Inhomogeneous Alternating Electric Field. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2021, 129, 1327-1340.	0.2	0
35	Self-images contrast enhancement for displacement Talbot lithography by means of composite mesoscale amplitude-phase masks. Journal of Optics (United Kingdom), 2020, 22, 015002.	1.0	9
36	Superâ€Enhancement Focusing of Teflon Spheres. Annalen Der Physik, 2020, 532, 2000373.	0.9	16

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37	High-gain and Low-profile Dielectric Cuboid Antenna at J-band. , 2020, , .		6
38	Photonic hook formation in near-infrared with MXene Ti₃C₂ nanoparticles. Nanoscale Advances, 2020, 2, 5312-5318.	2.2	25
39	Optical Manipulation of Micro- and Nanoobjects Based on Structured Mesoscale Particles: a Brief Review. Atmospheric and Oceanic Optics, 2020, 33, 464-469.	0.6	6
40	Improvement of a Terahertz Detector Performance Using the Terajet Effect in a Mesoscale Dielectric Cube: Proof of Concept. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2070026.	1.2	0
41	Experimental observation of flat focusing mirror based on photonic jet effect. Scientific Reports, 2020, 10, 8459.	1.6	21
42	Recent Advances in Integrated Photonic Jet-Based Photonics. Photonics, 2020, 7, 41.	0.9	23
43	Shaping photonic hook via well-controlled illumination of finite-size graded-index micro-ellipsoid. Journal of Optics (United Kingdom), 2020, 22, 085002.	1.0	21
44	Temperature mediated â€˜photonic hookâ€™ nanoparticle manipulator with pulsed illumination. Nanoscale Advances, 2020, 2, 2595-2601.	2.2	25
45	Electromagnetic Properties of Pyramids from Positions of Photonics. Russian Physics Journal, 2020, 62, 1763-1769.	0.2	8
46	Improvement of a Terahertz Detector Performance Using the Terajet Effect in a Mesoscale Dielectric Cube: Proof of Concept. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900700.	1.2	7
47	Acoustical hooks: A new subwavelength self-bending beam. Results in Physics, 2020, 16, 102921.	2.0	23
48	Ultrasonic focusing with mesoscale polymer cuboid. Ultrasonics, 2020, 106, 106143.	2.1	12
49	Cylindrical 3D printed configurable ultrasonic lens for subwavelength focusing enhancement. Scientific Reports, 2020, 10, 20279.	1.6	9
50	Tailoring â€˜photonic hookâ€™ from Janus dielectric microbar. Journal of Optics (United Kingdom), 2020, 22, 065606.	1.0	23
51	Specular-reflection photonic nanojet: physical basis and optical trapping application. Optics Express, 2020, 28, 22690.	1.7	35
52	Plasmonic nanojet: an experimental demonstration. Optics Letters, 2020, 45, 3244.	1.7	23
53	Overcoming refractive index limit of mesoscale light focusing by means of specular-reflection photonic nanojet. Optics Letters, 2020, 45, 3885.	1.7	21
54	Plasmonic nanojet: an experimental demonstration: publisherâ€™s note. Optics Letters, 2020, 45, 3418.	1.7	3

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55	Experimental demonstration of a tunable photonic hook by a partially illuminated dielectric microcylinder. Optics Letters, 2020, 45, 4899.	1.7	46
56	Sound Focusing Capability of a CO2 Gas-Filled Cuboid. Physics of Wave Phenomena, 2020, 28, 333-337.	0.3	1
57	Nuclear Magnetic Resonance and Infrared Spectroscopy Examination of Blood for Diagnosis of the Diffuse Hepatopathy State. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 787-793.	0.2	2
58	Manipulation of focal patterns in acoustic Soret type zone plate lens by using reference radius/phase effect. Ultrasonics, 2019, 91, 237-241.	2.1	11
59	Characterization of Mesoscopic Dielectric Cuboid Antenna at Millimeter-Wave Band. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1828-1832.	2.4	17
60	Controlled Aggregation And Transportation Of Nanoparticles Using Ultrasonic Needle Probe. , 2019, , .		0
61	Wavelength-scale gas-filled cuboid acoustic lens with diffraction limited focusing. Results in Physics, 2019, 12, 1905-1908.	2.0	10
62	Liquidâ€“liquid coreâ€“shell configurable mesoscale spherical acoustic lens with subwavelength focusing. Applied Physics Express, 2019, 12, 087001.	1.1	18
63	Extreme effects in field localization of acoustic wave: super-resonances in dielectric mesoscale sphere immersed in water. IOP Conference Series: Materials Science and Engineering, 2019, 516, 012042.	0.3	2
64	Optical vacuum cleaner by optomechanical manipulation of nanoparticles using nanostructured mesoscale dielectric cuboid. Scientific Reports, 2019, 9, 12748.	1.6	25
65	3D sound wave focusing by 2D internal periodic structure of 3D external cuboid shape. Results in Physics, 2019, 15, 102582.	2.0	7
66	Phase Method for Visualization of Hidden Dielectric Objects in the Millimeter Waveband. Sensors, 2019, 19, 3919.	2.1	4
67	Tunable subwavelength ultrasound focusing in mesoscale spherical lenses using liquid mixtures. Scientific Reports, 2019, 9, 13363.	1.6	14
68	High-Performance Ultrasonic Tweezers for Manipulation of Motile and Still Single Cells in a Droplet. Ultrasound in Medicine and Biology, 2019, 45, 3018-3027.	0.7	8
69	Deep Subwavelength-Scale Light Focusing and Confinement in Nanohole-Structured Mesoscale Dielectric Spheres. Nanomaterials, 2019, 9, 186.	1.9	30
70	Experimental observation of a photonic hook. Applied Physics Letters, 2019, 114, .	1.5	80
71	Design of Acoustical Bessel-Like Beam Formation by a Pupil Masked Soret Zone Plate Lens. Sensors, 2019, 19, 378.	2.1	13
72	New Opportunities for Colorectal Cancer Diagnostics Using an Optical Cell Detection System Based on Dielectrophoresis. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 568-573.	0.2	5

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73	Apodizationâ€Assisted Subdiffraction Nearâ€Field Localization in 2D Phase Diffraction Grating. Annalen Der Physik, 2019, 531, 1900033.	0.9	15
74	Application of ellipsometry, spr-technic and raman-spectroscopy into diagnosis of colorectal cancer. IOP Conference Series: Materials Science and Engineering, 2019, 516, 012017.	0.3	2
75	Super-resonances in a dielectric mesoscale sphere immersed in water: effects in extreme field localization of acoustic wave. Proceedings of Meetings on Acoustics, 2019, , .	0.3	3
76	High order Fano resonances and giant magnetic fields in dielectric microspheres. Scientific Reports, 2019, 9, 20293.	1.6	40
77	Full three-dimensional Poynting vector flow analysis of great field-intensity enhancement in specifically sized spherical-particles. Scientific Reports, 2019, 9, 20224.	1.6	22
78	Reference radius in Fresnel Zone Plates to control ultrasound beamforming. Proceedings of Meetings on Acoustics, 2019, , .	0.3	1
79	Application of Phase-Reversal Fresnel Zone Plates for Improving The Elevation Resolution in Ultrasonic Testing with Phased Arrays. Sensors, 2019, 19, 5080.	2.1	2
80	Tunable depth of focus of acoustical pupil masked Soret Zone Plate. Sensors and Actuators A: Physical, 2019, 286, 183-187.	2.0	3
81	Enhancement of pupil-masked wavelength-scale gas-filled flat acoustic lens based on anomaly apodization effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 396-399.	0.9	7
82	Periodical focusing mode achieved through a chain of mesoscale dielectric particles with a refractive index near unity. Optics Communications, 2019, 434, 110-117.	1.0	10
83	Ultrafast all-optical THz modulation based on wavelength scaled dielectric particle with graphene monolayer. , 2019, , .		4
84	Dielectrophoresis erythrocytes images for predicting stroke recurrence based on analysis of hemorheological parameters. , 2019, , .		2
85	Step-index sapphire fiber and its application in a terahertz near-field microscopy. , 2019, , .		11
86	Generation of structured light by multilevel orbital angular momentum holograms. Optics Express, 2019, 27, 6459.	1.7	23
87	Mesoscale Acoustical Cylindrical Superlens. MATEC Web of Conferences, 2018, 155, 01029.	0.1	13
88	â€˜Photonic Hookâ€™ based optomechanical nanoparticle manipulator. Scientific Reports, 2018, 8, 2029.	1.6	77
89	Intensityâ€Enhanced Apodization Effect on an Axially Illuminated Circularâ€Column Particleâ€Lens. Annalen Der Physik, 2018, 530, 1700384.	0.9	16
90	Systematic study and comparison of photonic nanojets produced by dielectric microparticles in 2D- and 3D-spatial configurations. Journal of Optics (United Kingdom), 2018, 20, 065606.	1.0	29

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91	Control of Levitating Particle in Ultrasound Field. MATEC Web of Conferences, 2018, 155, 01017.	0.1	3
92	A Millimetre-Wave Cuboid Solid Immersion Lens with Intensity-Enhanced Amplitude Mask Apodization. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 546-552.	1.2	44
93	Physical Principles of Development of the State Standard of Biological Cell Polarizability. Russian Physics Journal, 2018, 60, 1901-1904.	0.2	9
94	Strong electromagnetic field localization near the surface of hemicylindrical particles. Optical and Quantum Electronics, 2018, 50, 1.	1.5	16
95	Engineering photonic nanojet by a graded-index micro-cuboid. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 98, 105-110.	1.3	34
96	Spherical and cylindrical particle resonator as a cloak system. IOP Conference Series: Materials Science and Engineering, 2018, 363, 012026.	0.3	1
97	Phase Reversal Technique Applied to Fishnet Metalenses. International Journal of Antennas and Propagation, 2018, 2018, 1-8.	0.7	3
98	First experimental observation of array of photonic jets from saw-tooth phase diffraction grating. Europhysics Letters, 2018, 123, 54003.	0.7	18
99	Sound focusing of a wavelength-scale gas-filled flat lens. Europhysics Letters, 2018, 123, 64002.	0.7	10
100	Photonic Hook Plasmons: A New Curved Surface Wave. Annalen Der Physik, 2018, 530, 1800359.	0.9	34
101	Photonic hook: a new curved light beam. Optics Letters, 2018, 43, 771.	1.7	98
102	Photonic Jet by a Nearâ€Unityâ€Refractiveâ€Index Sphere on a Dielectric Substrate with High Index Contrast. Annalen Der Physik, 2018, 530, 1800032.	0.9	19
103	Controlled concentration and transportation of nanoparticles at the interface between a plain substrate and droplet. Sensors and Actuators B: Chemical, 2018, 274, 381-392.	4.0	14
104	A potential of terahertz solid immersion microscopy for visualizing sub-wavelength-scale tissue spheroids. , 2018, , .		16
105	Theoretical and experimental investigations of photonic jet array from rectangle phase diffraction grating. , 2018, , .		2
106	Acoustojet: acoustic analogue of photonic jet phenomenon based on penetrable 3D particle. Optical and Quantum Electronics, 2017, 49, 1.	1.5	34
107	Production of photonic nanojets by using pupil-masked 3D dielectric cuboid. Journal Physics D: Applied Physics, 2017, 50, 175102.	1.3	31
108	Comparison of photonic nanojets key parameters produced by nonspherical microparticles. Optical and Quantum Electronics, 2017, 49, 1.	1.5	12

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109	Enhancement of spatial resolution of terahertz imaging systems based on terajet generation by dielectric cube. APL Photonics, 2017, 2, .	3.0	86
110	Asymmetric phase anomaly of terajet generated from dielectric cube under oblique illumination. Applied Physics Letters, 2017, 110, 201105.	1.5	11
111	On the Performance of the Zoned Fishnet Metamaterial Lens With Positive and Negative Reference Phase. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1460-1463.	2.4	7
112	Ultra-wideband radio tomographic imaging with resolution near the diffraction limit. Optical and Quantum Electronics, 2017, 49, 1.	1.5	8
113	The relationship between resonance scattering and the formation of an acoustojet under the interaction of ultrasound with a dielectric sphere immersed in water. Journal of Physics: Conference Series, 2017, 881, 012025.	0.3	3
114	The possibility of total protein concentration determination based on acoustojet phenomenon. Journal of Physics: Conference Series, 2017, 881, 012038.	0.3	1
115	Small-sized body influence on the quality factor increasing of quasioptical open resonator. Optical and Quantum Electronics, 2017, 49, 1.	1.5	5
116	Formation of terajet produced by artificial dielectric periodical structures on substrate. Journal of Physics: Conference Series, 2017, 881, 012024.	0.3	0
117	Terahertz artificial dielectric cuboid lens on substrate for super-resolution images. Optical and Quantum Electronics, 2017, 49, 1.	1.5	43
118	Focusing behavior of 2-dimensional plasmonic conical zone plate. Optical and Quantum Electronics, 2017, 49, 1.	1.5	15
119	Focusing Acoustic Beams with a Ball-Shaped Lens beyond the Diffraction Limit. Physical Review Applied, 2017, 8, .	1.5	35
120	Experimental characterization of terajet generated from dielectric cuboid under different illumination conditions. , 2017, , .		3
121	Refractive index less than two: photonic nanojets yesterday, today and tomorrow [Invited]. Optical Materials Express, 2017, 7, 1820.	1.6	293
122	Experimental demonstration of square Fresnel zone plate with chiral side lobes. Applied Optics, 2017, 56, F128.	2.1	17
123	UWB tomosynthesis of objects in mediums with metal inclusions. Journal of Physics: Conference Series, 2017, 881, 012017.	0.3	0
124	Increasing Surface Plasmons Propagation via Photonic Nanojets with Periodically Spaced 3D Dielectric Cuboids. Photonics, 2016, 3, 10.	0.9	30
125	Apparatus for liquid acoustic signal generation using self-sustained low-voltage electric discharge generator. , 2016, , .		0
126	Ultra-sharp nanofocusing of graded index photonic crystal-based lenses perforated with optimized single defect. Optical Materials Express, 2016, 6, 2628.	1.6	15

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127	Comprehensive analysis of photonic nanojets in 3D dielectric cuboids excited by surface plasmons. Annalen Der Physik, 2016, 528, 684-692.	0.9	33
128	Beam compressed system concept based on dielectric cluster of self-similar three-dimensional dielectric cuboids. , 2016, , .		4
129	Terajet from 3D anisotropic artificial metamaterial. , 2016, , .		1
130	Multielement emitters of terahertz radiation based on array of photonic jet. , 2016, , .		0
131	Three-dimensional direct observation of Gouy phase shift in a terajet produced by a dielectric cuboid. Applied Physics Letters, 2016, 108, 191102.	1.5	23
132	Brief review of acoustical (sonic) artificial lenses. , 2016, , .		1
133	Formation of terahertz beams produced by artificial dielectric periodical structures. , 2016, , .		8
134	Subwavelength, standing-wave optical trap based on photonic jets. Quantum Electronics, 2016, 46, 555-557.	0.3	28
135	V-band reference-phase-based zoned fishnet metalens. , 2016, , .		0
136	Improving the performance of the zoned fishnet metalens using the reference phase technique. , 2016, , .		1
137	Photonic jets from Babinetâ€™s cuboid structures in the reflection mode. Optics Letters, 2016, 41, 785.	1.7	21
138	Subwavelength Focusing Properties of Diffractive Photonic Crystal Lens. SpringerBriefs in Physics, 2016, , 21-30.	0.2	0
139	Diffractive Optics and Nanophotonics. SpringerBriefs in Physics, 2016, , .	0.2	69
140	Photonic Jets Formation by Non Spherical Axially and Spatially Asymmetric 3D Dielectric Particles. SpringerBriefs in Physics, 2016, , 31-54.	0.2	1
141	Localized EM and photonic jets from nonâ€spherical and nonâ€symmetrical dielectric mesoscale objects: Brief review. Annalen Der Physik, 2015, 527, 491-497.	0.9	88
142	Method of Electrodiagnostics of Necrocytosis in Experimental Pancreatic Necrosis. Bio-Medical Engineering, 2015, 49, 217-219.	0.3	0
143	High resolution terajets via 3D dielectric cuboids at THz frequencies. , 2015, , .		1
144	Photonics of mesoscale nonspherical and non axysimmetrical dielectric particles and application to cuboid-chain with air-gaps waveguide based on periodic terajet-induced modes. , 2015, , .		3

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145	High resolution terajets using 3D dielectric cuboids. , 2015, , .		1
146	Microcubes aided photonic jet scalpel tips for potential use in ultraprecise laser surgery. , 2015, , .		4
147	Zoned Fishnet Lens Antenna With Reference Phase for Side-Lobe Reduction. IEEE Transactions on Antennas and Propagation, 2015, 63, 3710-3714.	3.1	12
148	Localized photonic jets from flat, three-dimensional dielectric cuboids in the reflection mode. Optics Letters, 2015, 40, 2329.	1.7	54
149	Multifrequency focusing and wide angular scanning of terajets. Optics Letters, 2015, 40, 245.	1.7	55
150	All-dielectric periodic terajet waveguide using an array of coupled cuboids. Applied Physics Letters, 2015, 106, .	1.5	38
151	Some Possibilities of Hypercumulative Regime of Jet Formations. Applied Mechanics and Materials, 2015, 782, 42-48.	0.2	2
152	Localized high field enhancements from hemispherical 3D mesoscale dielectric particles in the refection mode. , 2015, , .		5
153	Dielectric zoned wedge wide scanned diffractive 3D lens antenna-radome. , 2014, , .		0
154	Spectral properties of 3D diffractive lenses with 3D subwavelength focusing spot. , 2014, , .		0
155	Experimental researches of flash temperature of petroleum products. , 2014, , .		0
156	Prospects for creating of standard complex for metrological maintenance of biophysical measurements. , 2014, , .		1
157	Development of standard and measuring devices to determine the parameters of petroleum products. , 2014, , .		0
158	Physico-chemical properties petroleum products with the addition of “NanoKOR-F”. , 2014, , .		0
159	Experimental verification 3D subwavelength resolution beyond Abbe barrier with flat diffractive optic in millimeter wave. , 2014, , .		0
160	Dielectric Zoned Wedge Scanned Diffractive 3D lens antenna-radome. , 2014, , .		0
161	Terajets produced by dielectric cuboids. Applied Physics Letters, 2014, 105, .	1.5	99
162	Experimental verification 3D subwavelength resolution beyond the diffraction limit with zone plate in millimeter wave. Microwave and Optical Technology Letters, 2014, 56, 2436-2439.	0.9	14

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163	Hypervelocity fragment formation technology for ground-based laboratory tests. Acta Astronautica, 2014, 104, 77-83.	1.7	18
164	An innovative 3D diffractive lenses to overcome the 3D Abbe diffraction limit in millimeter wave: Simulation and experiment. , 2014, , .		0
165	3D dif fractive lenses to overcome the 3D Abbe subwavelength dif fraction limit. Chinese Optics Letters, 2014, 12, 060014-60016.	1.3	17
166	Active MMW/Terahertz Security System Based on Bessel Beams. , 2013, 2013, 1-4.		9
167	MILLIMETER WAVE BINARY PHOTON SIEVE FRESNEL ZONE PLATE: FDTD ANALYSIS. Progress in Electromagnetics Research Letters, 2013, 43, 149-154.	0.4	3
168	Physics hypercumulation and comdined shaped charges. , 2012, , .		2
169	Physics hypercumulation and comdined shaped charges. , 2012, , .		3
170	Variable Reference Phase in Diffractive Antennas: Review, Applications, New Results. IEEE Antennas and Propagation Magazine, 2011, 53, 77-94.	1.2	15
171	Reference Phase in Diffractive Lens Antennas: A Review. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 801-822.	1.2	12
172	Fresnel zone plate antenna with hexagonal-cut zones. Microwave and Optical Technology Letters, 2008, 50, 672-676.	0.9	4
173	Investigation of low-profile Fresnel zone plate antennas. Microwave and Optical Technology Letters, 2008, 50, 2039-2043.	0.9	5
174	Focusing properties of two types of diffractive photonic crystal lens. Optical Memory and Neural Networks (Information Optics), 2008, 17, 244-248.	0.4	8
175	Some Fields of Lens Array Applications. , 2008, , 171-199.		0
176	FZP Lens Array. , 2008, , 129-169.		1
177	Optimal Design of Diffractive Antennas on Cylindrical Surface. , 2008, , .		0
178	Subwavelength Diffractive Photonic Crystal Lens. , 2008, , .		2
179	Concept of Near-Field Millimeter-Wave Imaging System with a Spatial Resolution beyond the Abbe Barrier. , 2008, , .		3
180	SUBWAVELENGTH DIFFRACTIVE PHOTONIC CRYSTAL LENS. Progress in Electromagnetics Research B, 2008, 7, 257-264.	0.7	22

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181	NEW TECHNIQUE TO SUPPRESS SIDELOBE CLUTTER IN PERIMETER SECURITY SYSTEMS. International Journal of High Speed Electronics and Systems, 2007, 17, 367-382.	0.3	6
182	Adaptation of Text Steganographic Algorithms for HTML. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	6
183	Femtosecond Pulse Focusing by Means of Diffractive Elements on Tapered Surface. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	0
184	Improved zoning rule for designing square Fresnel zone plate lenses. Microwave and Optical Technology Letters, 2007, 49, 276-278.	0.9	18
185	Novel reflectorâ€backed Fresnel zone plate antenna. Microwave and Optical Technology Letters, 2007, 49, 3096-3098.	0.9	10
186	A Systematic Study of Varying Reference Phase in the Design of Circular Fresnel Zone Plate Antennas. IEEE Transactions on Antennas and Propagation, 2006, 54, 3629-3637.	3.1	20
187	Comments on â€œFocusing Characteristics of Curvilinear Half-Open Fresnel Zone Plate Lenses: Plane Wave Illuminationâ€• IEEE Transactions on Antennas and Propagation, 2006, 54, 2692-2692.	3.1	3
188	Novel type of the elements of integrated diffractive optics. , 2006, , .		0
189	THz quasioptics applications in security. , 2006, , .		3
190	New technique to combat multipath fading in wireless networks. , 2006, 6248, 205.		4
191	Array of hexagonal Fresnel zone plate lens antennas. Electronics Letters, 2006, 42, 834.	0.5	12
192	Researches on Millimeter Wave 3D Imaging at Novosibirsk, Russia. , 2006, , .		0
193	Quasi-optical Material Measurements with Help of Diffractive Optics. , 2006, , .		0
194	Technologies of Millimeter-Wave Road-Vehicle and Vehicle-Vehicle Communications. , 2006, , .		1
195	Array of Fresnel Zone Plate Lens Antennas: Circular, Hexagonal with Chiral Symmetry and Hexagonal Boundary. , 2006, , .		2
196	FDTD Analysis of a Flat Diffractive Optics with Sub-Reyleigh Limit Resolution in MM/THz Waveband. , 2006, , .		5
197	Simple Free-Space Method for Measurement of Dielectric Constant by Means of Diffractive Optics with New Capabilities. , 2006, , .		5
198	Flat and conformal zone plate antennas with new capabilities. , 2005, , .		10

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199	A review of mm-wave and submm-wave antenna and lens developments using Fresnel diffraction theory. , 2003, , .		0
200	<title>Diffractional antenna-radomes for radar sensors: a review</title>. , 2002, , .		0
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