

Igor I Smolyaninov

List of Publications by Year in descending order

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187
papers

8,649
citations

109137

35
h-index

45213

90
g-index

188
all docs

188
docs citations

188
times ranked

7275
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-optics of surface plasmon polaritons. Physics Reports, 2005, 408, 131-314.	10.3	2,082
2	Hyperbolic Metamaterials. World Scientific Series in Nanoscience and Nanotechnology, 2017, , 87-138.	0.1	1,023
3	Magnifying Superlens in the Visible Frequency Range. Science, 2007, 315, 1699-1701.	6.0	702
4	Near-field photonics: surface plasmon polaritons and localized surface plasmons. Journal of Optics, 2003, 5, S16-S50.	1.5	480
5	Broadband Purcell effect: Radiative decay engineering with metamaterials. Applied Physics Letters, 2012, 100, .	1.5	388
6	Metric Signature Transitions in Optical Metamaterials. Physical Review Letters, 2010, 105, 067402.	2.9	189
7	Anisotropic Metamaterials Emulated by Tapered Waveguides: Application to Optical Cloaking. Physical Review Letters, 2009, 102, 213901.	2.9	181
8	Far-Field Optical Microscopy with a Nanometer-Scale Resolution Based on the In-Plane Image Magnification by Surface Plasmon Polaritons. Physical Review Letters, 2005, 94, 057401.	2.9	152
9	Imaging of Surface Plasmon Scattering by Lithographically Created Individual Surface Defects. Physical Review Letters, 1996, 77, 3877-3880.	2.9	134
10	Roadmap on optical metamaterials. Journal of Optics (United Kingdom), 2016, 18, 093005.	1.0	118
11	Near-field second harmonic generation from a rough metal surface. Physical Review B, 1997, 56, 9290-9293.	1.1	106
12	Polarization control of optical transmission of a periodic array of elliptical nanoholes in a metal film. Optics Letters, 2004, 29, 1414.	1.7	101
13	Near-field microscopy of surface-plasmon polaritons: Localization and internal interface imaging. Physical Review B, 1995, 51, 17916-17924.	1.1	97
14	Experimental study of surface-plasmon scattering by individual surface defects. Physical Review B, 1997, 56, 1601-1611.	1.1	97
15	Near-field direct-write ultraviolet lithography and shear force microscopic studies of the lithographic process. Applied Physics Letters, 1995, 67, 3859-3861.	1.5	96
16	Controlling optical transmission through magneto-plasmonic crystals with an external magnetic field. New Journal of Physics, 2008, 10, 105012.	1.2	89
17	Surface Plasmon Polariton Enhanced Fluorescence from Quantum Dots on Nanostructured Metal Surfaces. Nano Letters, 2010, 10, 813-820.	4.5	82
18	Fluorescence enhancement by surface gratings. Optics Express, 2006, 14, 10825.	1.7	79

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19	Two-dimensional metamaterial structure exhibiting reduced visibility at 500 nm. Optics Letters, 2008, 33, 1342.	1.7	78
20	Direct observation of surface polariton localization caused by surface roughness. Optics Communications, 1995, 117, 417-423.	1.0	73
21	Roadmap on transformation optics. Journal of Optics (United Kingdom), 2018, 20, 063001.	1.0	64
22	Modeling of time with metamaterials. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1591.	0.9	60
23	Experimental observation of the trapped rainbow. Applied Physics Letters, 2010, 96, 211121.	1.5	59
24	Near-field second-harmonic imaging of ferromagnetic and ferroelectric materials. Optics Letters, 1997, 22, 1592.	1.7	56
25	Focused ion-beam fabrication of fiber probes with well-defined apertures for use in near-field scanning optical microscopy. Applied Physics Letters, 1998, 72, 3133-3135.	1.5	54
26	Hyperbolic metamaterial interfaces: Hawking radiation from Rindler horizons and spacetime signature transitions. Physical Review B, 2012, 85, .	1.1	54
27	Maxwell fish-eye and Eaton lenses emulated by microdroplets. Optics Letters, 2010, 35, 3396.	1.7	52
28	Self-assembled tunable photonic hyper-crystals. Scientific Reports, 2015, 4, 5706.	1.6	50
29	Phase conjugation of an optical near field. Optics Letters, 1994, 19, 1601.	1.7	47
30	Surface plasmon toy model of a rotating black hole. New Journal of Physics, 2003, 5, 147-147.	1.2	47
31	Wavelength dependent birefringence of surface plasmon polaritonic crystals. Physical Review B, 2004, 70, .	1.1	45
32	<title>Effect of atmospheric turbulence on bit-error rate in an on-off-keyed optical wireless system</title>. , 2002, , .		43
33	Resolution enhancement of a surface immersion microscope near the plasmon resonance. Optics Letters, 2005, 30, 382.	1.7	43
34	Surface plasmon dielectric waveguides. Applied Physics Letters, 2005, 87, 241106.	1.5	40
35	Vacuum in a Strong Magnetic Field as a Hyperbolic Metamaterial. Physical Review Letters, 2011, 107, 253903.	2.9	38
36	Super-resolution optical microscopy based on photonic crystal materials. Physical Review B, 2005, 72, .	1.1	37

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37	Quantum Fluctuations of the Refractive Index near the Interface Between a Metal and a Nonlinear Dielectric. <i>Physical Review Letters</i> , 2005, 94, 057403.	2.9	36
38	Imaging and focusing properties of plasmonic metamaterial devices. <i>Physical Review B</i> , 2007, 76, .	1.1	36
39	Analog of gravitational force in hyperbolic metamaterials. <i>Physical Review A</i> , 2013, 88, .	1.0	36
40	Light emission from the tunneling junction of the scanning tunneling microscope. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 149, 410-412.	0.9	35
41	Correlation between optical and topographical images from an external reflection near-field microscope with shear force feedback. <i>Applied Optics</i> , 1995, 34, 3793.	2.1	35
42	Experimental demonstration of superconducting critical temperature increase in electromagnetic metamaterials. <i>Scientific Reports</i> , 2014, 4, 7321.	1.6	35
43	Experimental modeling of cosmological inflation with metamaterials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2575-2579.	0.9	34
44	Giant Enhancement of Surface Second Harmonic Generation in BaTiO ₃ due to Photorefractive Surface Wave Excitation. <i>Physical Review Letters</i> , 1999, 83, 2429-2432.	2.9	33
45	Experimental demonstration of metamaterial "multiverse" in a ferrofluid. <i>Optics Express</i> , 2013, 21, 14918.	1.7	33
46	Metamaterial "multiverse"™. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 024004.	1.0	31
47	Surface Wave Based Underwater Radio Communication. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 2503-2507.	2.4	30
48	Near-field optical microscopy of two-dimensional photonic and plasmonic crystals. <i>Physical Review B</i> , 1999, 59, 2454-2460.	1.1	29
49	High Resolution Study of Permanent Photoinduced Reflectivity Changes and Charge-Order Domain Switching in Bi _{0.3} Ca _{0.7} MnO ₃ . <i>Physical Review Letters</i> , 2001, 87, 127204.	2.9	29
50	Hyperbolic metamaterials: Novel physics and applications. <i>Solid-State Electronics</i> , 2017, 136, 102-112.	0.8	29
51	Spectroscopic measurements of light emitted by the scanning tunneling microscope. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 158, 337-340.	0.9	28
52	The effect of the surface enhanced polariton field on the tunneling current of a STM. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 200, 438-444.	0.9	28
53	Plasmon-induced magnetization of metallic nanostructures. <i>Physical Review B</i> , 2005, 71, .	1.1	27
54	Using metamaterial nanoengineering to triple the superconducting critical temperature of bulk aluminum. <i>Scientific Reports</i> , 2015, 5, 15777.	1.6	27

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55	Photon emission from a layer of copper phthalocyanine molecules on a gold (111) film surface induced by STM. <i>Surface Science</i> , 1996, 364, 79-88.	0.8	26
56	Observation of localized plasmonic excitations in thin metal films with near-field second-harmonic microscopy. <i>Optics Communications</i> , 1999, 169, 93-96.	1.0	26
57	Apparent superresolution in near-field optical imaging of periodic gratings. <i>Optics Letters</i> , 1998, 23, 1346.	1.7	25
58	Near-field second harmonic imaging of lead zirconate titanate piezoceramic. <i>Applied Physics Letters</i> , 1999, 74, 1942-1944.	1.5	25
59	Fractal surface characterization: implications for plasmon polariton scattering. <i>Surface Science</i> , 1996, 356, 268-274.	0.8	24
60	Light-controlled photon tunneling. <i>Applied Physics Letters</i> , 2002, 81, 3314-3316.	1.5	24
61	Studies of pointing, acquisition, and tracking of agile optical wireless transceivers for free-space optical communication networks. , 2004, , .		24
62	Enhanced superconductivity in aluminum-based hyperbolic metamaterials. <i>Scientific Reports</i> , 2016, 6, 34140.	1.6	24
63	Scattered light enhancement near a phase conjugating mirror. <i>Optics Communications</i> , 1995, 115, 115-120.	1.0	23
64	Characterization of time delayed diversity to mitigate fading in atmospheric turbulence channels. , 2005, , .		23
65	Local crystal analysis using near-field optical second harmonic microscopy: Application to thin ferroelectric films. <i>Journal of Applied Physics</i> , 2001, 89, 206-211.	1.1	22
66	Metamaterial superconductors. <i>Physical Review B</i> , 2015, 91, .	1.1	22
67	Polarization superprism effect in surface polaritonic crystals. <i>Applied Physics Letters</i> , 2003, 82, 4438-4440.	1.5	21
68	<title>Delayed diversity for fade resistance in optical wireless communications through turbulent media</title>. , 2004, , .		21
69	Quantum topological transition in hyperbolic metamaterials based on high<i>T</i>_c superconductors. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 305701.	0.7	21
70	Experimental study of probeâ€‘surface interaction in near-field optical microscopy. <i>Ultramicroscopy</i> , 1998, 71, 177-182.	0.8	20
71	Near-field second-harmonic generation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 843-860.	1.6	20
72	Linear and nonlinear optics of surface-plasmon whispering-gallery modes. <i>Physical Review B</i> , 2004, 69, .	1.1	19

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73	Coherent control of surface plasmon polariton mediated optical transmission. Journal Physics D: Applied Physics, 2008, 41, 195102.	1.3	19
74	Is There a Metamaterial Route to High Temperature Superconductivity?. Advances in Condensed Matter Physics, 2014, 2014, 1-6.	0.4	19
75	Theoretical modeling of critical temperature increase in metamaterial superconductors. Physical Review B, 2016, 93, .	1.1	19
76	A far-field optical microscope with nanometre-scale resolution based on in-plane surface plasmon imaging. Journal of Optics, 2005, 7, S165-S175.	1.5	15
77	Imaging with short-wavelength surface plasmon polaritons. Applied Physics Letters, 2005, 86, 151114.	1.5	15
78	Transformational optics of plasmonic metamaterials. New Journal of Physics, 2008, 10, 115033.	1.2	15
79	Minkowski domain walls in hyperbolic metamaterials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 353-356.	0.9	15
80	Modeling of causality with metamaterials. Journal of Optics (United Kingdom), 2013, 15, 025101.	1.0	15
81	Nonlinear optics of photonic hyper-crystals: optical limiting and hyper-computing. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1629.	0.9	15
82	Free-space optical wireless links with topology control. , 2002, 4821, 175.		14
83	Image formation in surface plasmon polariton mirrors: applications in high-resolution optical microscopy. New Journal of Physics, 2005, 7, 175-175.	1.2	13
84	Planck-scale physics of vacuum in a strong magnetic field. Physical Review D, 2012, 85, .	1.6	13
85	Giant Unruh effect in hyperbolic metamaterial waveguides. Optics Letters, 2019, 44, 2224.	1.7	13
86	Digital resolution enhancement in surface plasmon microscopy. Applied Physics B: Lasers and Optics, 2006, 84, 253-256.	1.1	12
87	Optical microscopy beyond the diffraction limit. HFSP Journal, 2008, 2, 129-131.	2.5	12
88	Fractal extra dimension in Kaluza-Klein theory. Physical Review D, 2002, 65, .	1.6	11
89	Metamaterial-based model of the Alcubierre warp drive. Physical Review B, 2011, 84, .	1.1	11
90	Critical opalescence in hyperbolic metamaterials. Journal of Optics (United Kingdom), 2011, 13, 125101.	1.0	11

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91	Holographic duality in nonlinear hyperbolic metamaterials. Journal of Optics (United Kingdom), 2014, 16, 075101.	1.0	11
92	Plasmon-polaritons on the surface of a pseudosphere. Physical Review B, 2005, 72, .	1.1	10
93	Photoluminescence from a gold nanotip in an accelerated reference frame. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 7043-7045.	0.9	10
94	Metamaterial superconductors. Nanophotonics, 2018, 7, 795-818.	2.9	10
95	ELECTRONS ON SOLID HYDROGEN AND SOLID NEON SURFACES. International Journal of Modern Physics B, 2001, 15, 2075-2106.	1.0	9
96	Development of Broadband Underwater Radio Communication for Application in Unmanned Underwater Vehicles. Journal of Marine Science and Engineering, 2020, 8, 370.	1.2	9
97	Enhanced transmission of light through a gold film due to excitation of standing surface-plasmon Bloch waves. Physical Review B, 2007, 75, .	1.1	8
98	Unruh effect in a waveguide. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5861-5864.	0.9	8
99	Experimental demonstration of birefringent transformation optics devices. Physical Review B, 2013, 87, .	1.1	8
100	Experimental Demonstration of Luneburg Waveguides. Photonics, 2015, 2, 440-448.	0.9	8
101	Characterization of phase-conjugated near-field light spots. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 1617.	0.9	7
102	Scanning Probe Microscopy of Surface Plasmons. International Journal of Modern Physics B, 1997, 11, 2465-2510.	1.0	7
103	<title>Long-distance 1.2 Gb/s optical wireless communication link at 1550 nm</title>. , 2002, , .		7
104	Electron-plasmon interaction in a cylindrical mesoscopic system: Important similarities with Kaluza-Klein theories. Physical Review B, 2003, 67, .	1.1	7
105	Broadband Transformation Optics Devices. Materials, 2010, 3, 4793-4810.	1.3	7
106	Gradient-index nanophotonics. Journal of Optics (United Kingdom), 2021, 23, 095002.	1.0	7
107	<title>Near-field microscopy of second-harmonic generation</title>. , 1999, , .		6
108	Low-diffraction beaming in plasmonic crystals. Optics Letters, 2012, 37, 2976.	1.7	6

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109	Quantum electromagnetic "black holes"™ in a strong magnetic field. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 015005.	1.4	6
110	Light propagation through random hyperbolic media. Optics Letters, 2013, 38, 971.	1.7	6
111	NONLINEAR NANO-OPTICS OF SURFACE PLASMONS AT THE "PLANCK SCALE". Modern Physics Letters B, 2006, 20, 321-342.	1.0	5
112	Magnifying Superlenses and other Applications of Plasmonic Metamaterials in Microscopy and Sensing. ChemPhysChem, 2009, 10, 625-628.	1.0	5
113	Self-assembled tunable photonic hyper-crystals. Proceedings of SPIE, 2014, , .	0.8	5
114	Experimental model of topological defects in Minkowski space-time based on disordered ferrofluid: magnetic monopoles, cosmic strings and the space-time cloak. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140360.	1.6	5
115	Micromachining of diamond with a near-field scanning optical microscope. Optics Letters, 2001, 26, 1495.	1.7	4
116	Strong optical coupling effects through a continuous metal film with a surface dielectric grating. , 2005, , .		4
117	Metamaterial Model of Tachyonic Dark Energy. Galaxies, 2014, 2, 72-80.	1.1	4
118	Fine tuning and MOND in a metamaterial "multiverse". Scientific Reports, 2017, 7, 8023.	1.6	4
119	Observation of plasmon-phonons in a metamaterial superconductor using inelastic neutron scattering. Physical Review B, 2019, 100, .	1.1	4
120	Surface electromagnetic waves in lossy conductive media: tutorial. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1894.	0.9	4
121	Supercooling Molecular Hydrogen Down through the Superfluid Transition. Physical Review Letters, 2000, 85, 2861-2864.	2.9	3
122	Analysis of compound parabolic concentrators and aperture averaging to mitigate fading on free-space optical links. , 2004, , .		3
123	Light-induced resonant transmittance through a gold film. Applied Physics Letters, 2005, 87, 041101.	1.5	3
124	The flexibility of optical metrics. Classical and Quantum Gravity, 2016, 33, 165008.	1.5	3
125	Enhancement of critical temperature in fractal metamaterial superconductors. Physica C: Superconductivity and Its Applications, 2017, 535, 20-23.	0.6	3
126	Oscillating Cosmological Force Modifies Newtonian Dynamics. Galaxies, 2020, 8, 45.	1.1	3

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127	Normal state specific heat of a core-shell aluminum-alumina metamaterial composite with enhanced Tc. Physical Review B, 2021, 103, .	1.1	3
128	SURFACE WAVE-BASED RADIO COMMUNICATION THROUGH CONDUCTIVE ENCLOSURES. Progress in Electromagnetics Research M, 2019, 85, 21-28.	0.5	3
129	Analogue Quantum Gravity in Hyperbolic Metamaterials. Universe, 2022, 8, 242.	0.9	3
130	Fluorescence enhancement by surface gratings. , 2006, , .		2
131	Two-dimensional plasmonic metamaterials. , 2007, , .		2
132	Super-resolution microscopy using surface plasmon polaritons. , 2007, , 63-107.		2
133	Nanophotonic devices based on plasmonic metamaterials. Journal of Modern Optics, 2008, 55, 3187-3192.	0.6	2
134	Experimental observation of speckle instability in a two-dimensional disordered medium. Metamaterials, 2010, 4, 207-213.	2.2	2
135	Lattice models of nontrivial "optical spaces" based on metamaterial waveguides. Optics Letters, 2011, 36, 2420.	1.7	2
136	Metamaterial model of fractal time. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1315-1317.	0.9	2
137	Magnetic liquids under high electric fields as broadband optical diodes. Physical Review A, 2016, 94, .	1.0	2
138	Superconducting properties of tin-based ENZ and hyperbolic metamaterials. Physica C: Superconductivity and Its Applications, 2019, 565, 1353511.	0.6	2
139	Hybrid acousto-electromagnetic metamaterial superconductors. Physica C: Superconductivity and Its Applications, 2020, 577, 1353730.	0.6	2
140	Enhancement of Unruh effect near hyperbolic metamaterials. Europhysics Letters, 2021, 133, 18001.	0.7	2
141	Effect of Fast Scale Factor Fluctuations on Cosmological Evolution. Universe, 2021, 7, 164.	0.9	2
142	Experimental observation of effective gravity and two-time physics in ferrofluid-based hyperbolic metamaterials. Advanced Photonics, 2020, 2, .	6.2	2
143	Micromachining of diamond using near-field scanning optical microscope. Materials Letters, 2002, 52, 408-411.	1.3	1
144	Optical second harmonic generation near a black hole horizon as a possible source of experimental information on quantum gravitational effects. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 300, 375-380.	0.9	1

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145	Publisher's Note: Quantum Fluctuations of the Refractive Index near the Interface Between a Metal and a Nonlinear Dielectric [Phys. Rev. Lett.94, 057403 (2005)]. Physical Review Letters, 2005, 94, .	2.9	1
146	Plasmonics and the parallel programming problem. , 2007, , .		1
147	Single photon gun: Radiative decay engineering with metamaterials. , 2009, , .		1
148	Light emission from a tunneling junction as a physical clock for tunneling time. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2021-2024.	0.9	1
149	Level of holographic noise in interferometry. Physical Review D, 2009, 79, .	1.6	1
150	Surface plasmon polariton enhanced fluorescence from quantum dots on nanostructured metal surfaces. , 2009, , .		1
151	Maxwell fisheye and Eaton lenses emulated by a microdroplet. , 2010, , .		1
152	Big Crunch-based omnidirectional light concentrators. Journal of Optics (United Kingdom), 2014, 16, 125103.	1.0	1
153	Quantum mechanics of hyperbolic metamaterials: Modeling of quantum time and Everett's \times^3 "universal wavefunction". Physica B: Condensed Matter, 2014, 453, 131-135.	1.3	1
154	Lithographically Fabricated Magnifying Maxwell Fisheye Lenses. Photonics, 2016, 3, 8.	0.9	1
155	Galactic optical cloaking of visible baryonic matter. Physical Review D, 2018, 97, .	1.6	1
156	Effect of metamaterial engineering on the superconductive properties of ultrathin layers of NbTiN. Journal of Applied Physics, 2021, 130, 073901.	1.1	1
157	Experimental Observation of Melting of the Effective Minkowski Spacetime in Cobalt-Based Ferrofluids. International Journal of Behavioral and Consultation Therapy, 2017, , 137-158.	0.4	1
158	Chapter 3 Super-resolution microscopy using surface plasmon polaritons. Advances in Nano-optics and Nano-photonics, 2006, , 63-107.	0.0	1
159	Surface Plasmon Polariton Enhanced Fluorescence from Quantum Dots on Nanostructured Metal Surfaces. , 2009, , .		1
160	Magnifying Superlens in the Visible Frequency Range. , 2007, , .		1
161	Near-field optical imaging of periodic plasmon sources. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 300, 97-100.	0.9	0
162	Single-photon tunneling in photonic crystals with deep defect states. Optics Letters, 2003, 28, 93.	1.7	0

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163	Light-controlled photon tunneling through nonlinear nanoholes. , 2003, , .		0
164	Studies of free-space optical links through simulated boundary layer and long-path turbulence. , 2004, 5237, 127.		0
165	Polarization dependencies of the enhanced optical transmission through surface polaritonic crystals. , 2004, 5554, 197.		0
166	Novel nanophotonics geometries for sensing applications. , 2004, , .		0
167	Publisher's Note: Super-resolution optical microscopy based on photonic crystal materials [Phys. Rev. B72, 085442 (2005)]. Physical Review B, 2005, 72, .	1.1	0
168	Dephasing of electrons in mesoscopic metal wires due to zero-point fluctuations of optically active localized plasmon modes. Physical Review B, 2005, 71, .	1.1	0
169	Dielectric optical components for surface plasmon optics. , 2006, , .		0
170	Magnifying superlens based on plasmonic metamaterials. , 2007, , .		0
171	Focusing of Surface Plasmon Polaritons by Surface Parabolic Dielectric Gratings. , 2007, , .		0
172	Magnifying superlens based on surface plasmon optics. Proceedings of SPIE, 2007, , .	0.8	0
173	Fluorescence enhancement by surface gratings. , 2007, , .		0
174	Plasmonic metamaterials and their applications. , 2008, , .		0
175	Plasmon imaging with sub-diffraction resolution. , 2008, , .		0
176	Reply to "Comment on "Enhanced transmission of light through a gold film due to excitation of standing surface-plasmon Bloch waves" Physical Review B, 2008, 77, .	1.1	0
177	Surface plasmon polariton enhanced fluorescence from quantum dots on nanostructured metal surfaces. Proceedings of SPIE, 2009, , .	0.8	0
178	Cloaking. , 0, , 316-385.		0
179	Experimental Observation of Field Enhancement at the Negative-Positive Index Interface. , 2011, , .		0
180	Black hole in a waveguide: Hawking radiation or self-phase modulation?. Journal of Optics (United) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	1.0	0

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181	Fractional Effective Charges and Misner-Wheeler Charge without Charge Effect in Metamaterials. Photonics, 2016, 3, 43.	0.9	0
182	Thermally Induced Effective Spacetimes in Self-Assembled Hyperbolic Metamaterials. Universe, 2017, 3, 23.	0.9	0
183	Extra-Dimensional "Metamaterials": A Model of Inflation Due to a Metric Signature Transition. Universe, 2017, 3, 66.	0.9	0
184	Enhancement of Coulomb blockade in epsilon near zero and hyperbolic metamaterials. Physica C: Superconductivity and Its Applications, 2019, 556, 14-18.	0.6	0
185	Optical Super-Resolution Imaging Using Surface Plasmon Polaritons. , 2017, , 165-189.		0
186	Super-Resolution Microscopy Techniques Based on Plasmonics and Transformation Optics. Biological and Medical Physics Series, 2019, , 313-343.	0.3	0
187	Surface Electromagnetic Waves near a Black Hole Event Horizon and Their Observational Consequences. Astronomy, 2022, 1, 49-57.	0.6	0