

# Viktor A Podolskiy

## List of Publications by Year in descending order

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187  
papers

8,779  
citations

66234

42  
h-index

40881

93  
g-index

189  
all docs

189  
docs citations

189  
times ranked

7636  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic nanorod metamaterials for biosensing. Nature Materials, 2009, 8, 867-871.	13.3	1,529
2	Negative refraction in semiconductor metamaterials. Nature Materials, 2007, 6, 946-950.	13.3	763
3	Designed ultrafast optical nonlinearity in a plasmonic nanorod metamaterial enhanced by nonlocality. Nature Nanotechnology, 2011, 6, 107-111.	15.6	432
4	Strongly anisotropic waveguide as a nonmagnetic left-handed system. Physical Review B, 2005, 71, .	1.1	289
5	Hyperbolic metamaterials: new physics behind a classical problem. Optics Express, 2013, 21, 15048.	1.7	270
6	Stimulated Emission of Surface Plasmon Polaritons. Physical Review Letters, 2008, 101, 226806.	2.9	269
7	Near-sighted superlens. Optics Letters, 2005, 30, 75.	1.7	255
8	Compensation of loss in propagating surface plasmon polariton by gain in adjacent dielectric medium. Optics Express, 2008, 16, 1385.	1.7	253
9	Plasmon modes and negative refraction in metal nanowire composites. Optics Express, 2003, 11, 735.	1.7	251
10	Optical Nonlocalities and Additional Waves in Epsilon-Near-Zero Metamaterials. Physical Review Letters, 2009, 102, 127405.	2.9	249
11	Nanowire metamaterials with extreme optical anisotropy. Applied Physics Letters, 2006, 89, 261102.	1.5	221
12	Nonlocal effects in effective-medium response of nanolayered metamaterials. Applied Physics Letters, 2007, 90, 191109.	1.5	214
13	PLASMON MODES IN METAL NANOWIRES AND LEFT-HANDED MATERIALS. Journal of Nonlinear Optical Physics and Materials, 2002, 11, 65-74.	1.1	211
14	Highly confined optical modes in nanoscale metal-dielectric multilayers. Physical Review B, 2007, 75, .	1.1	194
15	Transparent conductive oxides: Plasmonic materials for telecom wavelengths. Applied Physics Letters, 2011, 99, .	1.5	179
16	Towards nano-scale photonics with micro-scale photons: the opportunities and challenges of mid-infrared plasmonics. Nanophotonics, 2013, 2, 103-130.	2.9	173
17	Nonmagnetic nanocomposites for optical and infrared negative-refractive-index media. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 498.	0.9	159
18	Funneling Light through a Subwavelength Aperture with Epsilon-Near-Zero Materials. Physical Review Letters, 2011, 107, 133901.	2.9	144

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19	A proof of superlensing in the quasistatic regime, and limitations of superlenses in this regime due to anomalous localized resonance. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2005, 461, 3999-4034.	1.0	118
20	Metamaterial photonic funnels for subdiffraction light compression and propagation. Physical Review B, 2006, 73, .	1.1	112
21	Resonant light interaction with plasmonic nanowire systems. Journal of Optics, 2005, 7, S32-S37.	1.5	97
22	Refractive index sensing with hyperbolic metamaterials: strategies for biosensing and nonlinearity enhancement. Optics Express, 2015, 23, 14329.	1.7	82
23	Near-field optical studies of semicontinuous metal films. Physical Review B, 2001, 64, .	1.1	78
24	Scattering-Free Plasmonic Optics with Anisotropic Metamaterials. Physical Review Letters, 2008, 100, 066402.	2.9	77
25	Spontaneous emission in non-local materials. Light: Science and Applications, 2017, 6, e16273-e16273.	7.7	75
26	Nonlocal optics of plasmonic nanowire metamaterials. Physical Review B, 2014, 89, .	1.1	74
27	Hypergratings: nanophotonics in planar anisotropic metamaterials. Optics Letters, 2009, 34, 890.	1.7	73
28	Active metamaterials: Sign of refractive index and gain-assisted dispersion management. Applied Physics Letters, 2007, 91, .	1.5	71
29	Optimizing the superlens: Manipulating geometry to enhance the resolution. Applied Physics Letters, 2005, 87, 231113.	1.5	64
30	Strong Coupling of Molecular and Mid-Infrared Perfect Absorber Resonances. IEEE Photonics Technology Letters, 2012, 24, 31-33.	1.3	64
31	Purcell effect in hyperbolic metamaterial resonators. Physical Review B, 2015, 92, .	1.1	62
32	Focus issue: hyperbolic metamaterials. Optics Express, 2013, 21, 14895.	1.7	59
33	Semiclassical Description of Chaos-Assisted Tunneling. Physical Review Letters, 2003, 91, 263601.	2.9	58
34	Looking into Meta-Atoms of Plasmonic Nanowire Metamaterial. Nano Letters, 2014, 14, 4971-4976.	4.5	57
35	Experimental observation of percolation-enhanced nonlinear light scattering from semicontinuous metal films. Physical Review B, 2001, 64, .	1.1	54
36	Midinfrared semiconductor optical metamaterials. Journal of Applied Physics, 2009, 105, .	1.1	54

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37	Ultrasensitive Non-Resonant Detection of Ultrasound with Plasmonic Metamaterials. <i>Advanced Materials</i> , 2013, 25, 2351-2356.	11.1	54
38	Large local optical activity in fractal aggregates of nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 1896.	0.9	53
39	Chaos-assisted tunneling in dielectric microcavities. <i>Optics Letters</i> , 2005, 30, 474.	1.7	53
40	Homogeneous Hyperbolic Systems for Terahertz and Far-Infrared Frequencies. <i>Advances in OptoElectronics</i> , 2012, 2012, 1-6.	0.6	50
41	Strongly anisotropic media: the THz perspectives of left-handed materials. <i>Journal of Modern Optics</i> , 2005, 52, 2343-2349.	0.6	45
42	Stimulated Emission of Surface Plasmon Polaritons in a Microcylinder Cavity. <i>Physical Review Letters</i> , 2011, 106, 183903.	2.9	42
43	Engineering absorption and blackbody radiation in the far-infrared with surface phonon polaritons on gallium phosphide. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	41
44	Gain-Assisted Slow to Superluminal Group Velocity Manipulation in Nanowaveguides. <i>Physical Review Letters</i> , 2006, 97, 223902.	2.9	38
45	Magneto-Optical Metamaterials: Nonreciprocal Transmission and Faraday Effect Enhancement. <i>Advanced Optical Materials</i> , 2019, 7, 1801420.	3.6	38
46	Nonlocal Effects in Transition Hyperbolic Metamaterials. <i>ACS Photonics</i> , 2017, 4, 2470-2478.	3.2	37
47	Mid-infrared epsilon-near-zero modes in ultra-thin phononic films. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	37
48	Chaotic microlasers based on dynamical localization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10498-10500.	3.3	36
49	Hyperbolic and plasmonic properties of Silicon/Ag aligned nanowire arrays. <i>Optics Express</i> , 2013, 21, 14962.	1.7	36
50	Resonance transmittance through a metal film with subwavelength holes. <i>IEEE Journal of Quantum Electronics</i> , 2002, 38, 956-963.	1.0	35
51	Control of reflectance and transmittance in scattering and curvilinear hyperbolic metamaterials. <i>Applied Physics Letters</i> , 2012, 101, 091105.	1.5	35
52	PERCOLATION AND FRACTAL COMPOSITES: OPTICAL STUDIES. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2000, 09, 105-116.	1.1	27
53	Near-field infrared absorption of plasmonic semiconductor microparticles studied using atomic force microscope infrared spectroscopy. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	27
54	Diffraction interface theory: nonlocal susceptibility approach to the optics of metasurfaces. <i>Optics Express</i> , 2015, 23, 2764.	1.7	26

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55	Epsilon-Near-Zero Photonics Wires. ACS Photonics, 2016, 3, 1045-1052.	3.2	26
56	Geometry Defines Ultrafast Hot-Carrier Dynamics and Kerr Nonlinearity in Plasmonic Metamaterial Waveguides and Cavities. Advanced Optical Materials, 2017, 5, 1700299.	3.6	25
57	The limitedness problem on distance automata: Hashiguchi's method revisited. Theoretical Computer Science, 2004, 310, 147-158.	0.5	23
58	Control of the Stokes Shift with Strong Coupling. Advanced Optical Materials, 2017, 5, 1600941.	3.6	23
59	Electrically Injected Parity Time-Symmetric Single Transverse-Mode Lasers. Laser and Photonics Reviews, 2019, 13, 1800154.	4.4	23
60	Low-threshold lasing and broad-band multiphoton-excited light emission from Ag aggregate-adsorbate complexes in microcavity. Journal of Modern Optics, 2002, 49, 645-662.	0.6	22
61	Light emission in nonlocal plasmonic metamaterials. Faraday Discussions, 2015, 178, 61-70.	1.6	22
62	Plasmonic Nanolayer Composites: Coupled Plasmon Polaritons, Effective-Medium Response, and Subdiffraction Light Manipulation. Journal of Nanomaterials, 2007, 2007, 1-8.	1.5	21
63	Enhanced Optical Transmission through MacEtch-Fabricated Buried Metal Gratings. Advanced Materials, 2016, 28, 1441-1448.	11.1	21
64	Structural second-order nonlinearity in plasmonic metamaterials. Optica, 2018, 5, 1502.	4.8	21
65	Quasi-planar optics: computing light propagation and scattering in planar waveguide arrays. Journal of the Optical Society of America B: Optical Physics, 2009, 26, B102.	0.9	19
66	Collective phenomena in photonic, plasmonic and hybrid structures. Optics Express, 2011, 19, 22024.	1.7	19
67	$\hat{\mu}$ -near-zero enhanced light transmission through a subwavelength slit. Physical Review B, 2014, 89, .	1.1	19
68	Plasmon-enhanced absorption by optical phonons in metal-dielectric composites. Europhysics Letters, 2001, 53, 364-370.	0.7	18
69	Plasmonic mid-infrared beam steering. Applied Physics Letters, 2010, 96, .	1.5	17
70	Applications of plasmonics: general discussion. Faraday Discussions, 2015, 178, 435-466.	1.6	17
71	Enhanced emission from ultra-thin long wavelength infrared superlattices on epitaxial plasmonic materials. Applied Physics Letters, 2020, 116, .	1.5	17
72	Machine Learning-Based Diffractive Image Analysis with Subwavelength Resolution. ACS Photonics, 2021, 8, 1448-1456.	3.2	17

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73	Dynamical localization in microdisk lasers. <i>Optics Express</i> , 2005, 13, 5641.	1.7	16
74	Analytical technique for subwavelength far field imaging. <i>Applied Physics Letters</i> , 2010, 97, 101103.	1.5	16
75	Plasmonic and new plasmonic materials: general discussion. <i>Faraday Discussions</i> , 2015, 178, 123-149.	1.6	16
76	Low-frequency nonlocal and hyperbolic modes in corrugated wire metamaterials. <i>Optics Express</i> , 2018, 26, 17541.	1.7	15
77	Toward parametric amplification in plasmonic systems: Second harmonic generation enhanced by surface plasmon polaritons. <i>Optics Express</i> , 2014, 22, 7773.	1.7	14
78	Engineering the Berreman mode in mid-infrared polar materials. <i>Optics Express</i> , 2020, 28, 28590.	1.7	14
79	CoPhy-PCNN: Learning Physics-guided Neural Networks with Competing Loss Functions for Solving Eigenvalue Problems. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2022, 13, 1-23.	2.9	14
80	Multiscale beam evolution and shaping in corrugated plasmonic systems. <i>Optics Express</i> , 2011, 19, 9269.	1.7	13
81	Terahertz transmission ellipsometry of vertically aligned multi-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2012, 101, 111107.	1.5	13
82	Chaos-assisted tunneling and dynamical localization in dielectric microdisk resonators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006, 12, 40-51.	1.9	11
83	Interscale mixing microscopy: numerically stable imaging of wavelength-scale objects with sub-wavelength resolution and far field measurements. <i>Optics Express</i> , 2015, 23, 2753.	1.7	10
84	Singlet-Triplet Transition Rate Enhancement inside Hyperbolic Metamaterials. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900101.	4.4	10
85	Far-field imaging by a planar lens: Diffraction versus superresolution. <i>Physical Review B</i> , 2007, 76, .	1.1	9
86	Level spacing distribution in systems with partially chaotic classical dynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 362, 412-416.	0.9	9
87	Interscale mixing microscopy: far-field imaging beyond the diffraction limit. <i>Optica</i> , 2016, 3, 803.	4.8	9
88	Enhanced room temperature infrared LEDs using monolithically integrated plasmonic materials. <i>Optica</i> , 2020, 7, 1355.	4.8	9
89	Metamaterial coatings for broadband asymmetric mirrors. <i>Optics Letters</i> , 2007, 32, 1770.	1.7	8
90	Rigorous diffraction interface theory. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	8

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91	Metamaterials-based Salisbury screens with reduced angular sensitivity. Applied Physics Letters, 2014, 105, .	1.5	7
92	Surface-plasmon quantum cascade microlasers with highly deformed resonators. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 66-70.	1.9	6
93	Sub-diffraction light propagation in fibres with anisotropic dielectric cores. Journal of Modern Optics, 2006, 53, 2315-2324.	0.6	6
94	Sub-diffraction negative and positive index modes in mid-infrared waveguides. Optics Express, 2008, 16, 16404.	1.7	6
95	Low-diffraction beaming in plasmonic crystals. Optics Letters, 2012, 37, 2976.	1.7	6
96	Optical properties of metal nanowires. , 2003, , .		5
97	Enhanced bandwidth and reduced dispersion through stacking multiple optical metamaterials. Optics Express, 2011, 19, 14990.	1.7	5
98	Homogenization of nanowire-based composites with anisotropic unit-cell and layered substructure. MRS Communications, 2016, 6, 23-29.	0.8	5
99	Comment on "All-Angle Broadband Negative Refraction of Metal Waveguide Arrays in the Visible Range: Theoretical Analysis and Numerical Demonstration" Physical Review Letters, 2007, 98, .	2.9	4
100	Diffraction imaging route to sub-wavelength pixels. Applied Physics Letters, 2013, 102, .	1.5	4
101	Angle-insensitive plasmonic nanorod metamaterial-based band-pass optical filters. Optics Express, 2021, 29, 11562.	1.7	4
102	Metasurface-enhanced transparency. Journal of the Optical Society of America B: Optical Physics, 2017, 34, D42.	0.9	4
103	Nonlocal Response of Plasmonic Nanorod Metamaterials. , 2012, , .		3
104	Surface plasmon enhanced spectroscopies and time and space resolved methods: general discussion. Faraday Discussions, 2015, 178, 253-279.	1.6	3
105	Directional emission of rhodamine 6G on top of a silver grating. Optics Letters, 2018, 43, 2668.	1.7	3
106	Theoretical studies of loss compensation in active planar plasmonic structures. , 2007, , .		3
107	Discrete spectrum of anti-Stokes emission from metal particle-adsorbate complexes in a microcavity. , 2002, , .		2
108	Compensation of loss by optical gain in propagating surface plasmons. , 2007, , .		2

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109	Machine Learning-based Diffractive Imaging with Subwavelength Resolution. , 2020, , .		2
110	Multiscale Metasurfaces for Enhanced Light Extraction. , 2016, , .		2
111	Ballistic metamaterials. Optica, 2020, 7, 1773.	4.8	2
112	Chaos-assisted tunneling in whispering-gallery resonators. , 2003, 4969, 167.		1
113	Nonlocal effects in effective medium response of nanolayered metamaterials. , 2007, , .		1
114	Enhancement of dispersion modulation in nanoscale waveguides. Journal of the Optical Society of America B: Optical Physics, 2008, 25, C127.	0.9	1
115	ENZ-enhanced transmission through subwavelength slits. , 2011, , .		1
116	Asymmetric reflectance and cluster size effects in silver percolation films. Physical Review B, 2011, 84, .	1.1	1
117	Spontaneous Emission in Nonlocal Metamaterials with Spatial Dispersion. Springer Series in Solid-state Sciences, 2017, , 237-277.	0.3	1
118	Subdiffraction Limited Photonic Funneling of Light. Advanced Optical Materials, 2020, 8, 2001321.	3.6	1
119	Photonic Funnels: Subdiffraction Limited Photonic Funneling of Light (Advanced Optical Materials) Tj ETQq1 1 0.784314 rgBT /Overlock	3.6	1
120	Efficient radiational outcoupling of electromagnetic energy from hyperbolic metamaterial resonators. Scientific Reports, 2020, 10, 21854.	1.6	1
121	Stimulated emission in vicinity of the critical angle. Applied Physics Letters, 2021, 119, 031102.	1.5	1
122	Optical nonlocalities and additional waves in epsilon-near-zero metamaterials. , 2009, , .		1
123	Design of hyper-gratings for far field subwavelength focusing in planar geometry. , 2009, , .		1
124	High-Performance Sensing with Plasmonic Nanorod Metamaterials. , 2010, , .		1
125	Single-transverse-mode broadband InAs quantum dot superluminescent light emitting diodes by parity-time symmetry. Optics Express, 2018, 26, 30588.	1.7	1
126	Extending plasmonic response to the mid-wave infrared with all-epitaxial composites. Optics Letters, 2022, 47, 973.	1.7	1



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127	Plasmon-enhanced absorption by optical phonons in cermets. , 2001, , .		0
128	<title>Plasmonic nanophotonics: manipulating light and sensing molecules</title>. , 2002, , .		0
129	<title>Light management at nanoscale</title>. , 2002, , .		0
130	Giant enhancement of spectral emissions from molecules adsorbed on fractal/microcavity composite media. , 2002, , .		0
131	Spiral whispering-gallery resonators. , 2005, , .		0
132	Chaotic microlasers based on dynamical localization in whispering-gallery resonators with surface roughness. , 2005, , .		0
133	Non-magnetic materials with negative refractive index. , 2005, , .		0
134	Light in Strongly Anisotropic Media: Towards Left-Handed Materials at Optical Frequencies. , 2005, , FTuX4.		0
135	Composite materials with giant anisotropy and negative index of refraction. , 2005, , .		0
136	Chaos-Assisted Tunnelling and Dynamical Localization in Optical Microresonators. , 2006, , .		0
137	Imaging properties of anisotropy-based negative index composites. , 2006, , .		0
138	Subwavelength light guiding in photonic funnels. , 2006, , .		0
139	Optimizing the superlens geometry. , 2006, , .		0
140	CHAOTIC MICROLASERS BASED ON DYNAMICAL LOCALIZATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1835-1839.	0.7	0
141	Gain-assisted dispersion management in negative-index materials. , 2007, , .		0
142	Diffraction and dispersion management in active nanostructured metamaterials. , 2007, , .		0
143	Guided Modes Supported by Nanoscale Metal-Dielectric Multilayers. , 2007, , .		0
144	Scattering-free plasmonic optics with anisotropic metamaterials. , 2008, , .		0

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145	Surface Plasmon Polaritons in Silver-Gold Sandwich Structure. , 2009, , .		0
146	Hypergratings: far-field subwavelength focusing in planar metamaterials. Proceedings of SPIE, 2009, , .	0.8	0
147	Active mid-infrared plasmonic beam steering devices. Proceedings of SPIE, 2010, , .	0.8	0
148	Evolution of Beaming Pattern in Corrugated Mid-IR Plasmonic Structures. , 2010, , .		0
149	Funneling Light Through a Subwavelength Aperture Using Epsilon-Near-Zero Materials. , 2011, , .		0
150	Low-Diffraction Modes in Plasmonic Crystals. , 2012, , .		0
151	Making the mid-infrared nano with designer plasmonic materials. , 2012, , .		0
152	Hyperbolic metamaterials platforms for tuning reflectance, transmittance and absorption. Proceedings of SPIE, 2012, , .	0.8	0
153	Nonlocal Optics of Plasmonic Nanowire Metamaterials. , 2013, , .		0
154	All Semiconductor Negative-Index Plasmonic Absorbers. , 2014, , .		0
155	Mid-IR Plasmonics with Engineered Semiconductor Metals. , 2014, , .		0
156	Additional Waves in Nonlocal Nanowire Metamaterials. , 2014, , .		0
157	Optical Transmission: Enhanced Optical Transmission through MacEtchâ€Fabricated Buried Metal Gratings (Adv. Mater. 7/2016). Advanced Materials, 2016, 28, 1440-1440.	11.1	0
158	Stimulated Emission with Evanescent Gain in the Total Internal Reflection Geometry. , 2021, , .		0
159	Diffraction Characterization of Sub-wavelength Objects with Machine Learning. , 2021, , .		0
160	Plasmonic nanowires as left-handed media. , 2003, , .		0
161	Non-magnetic left handed nanostructured material. , 2004, , .		0
162	Light in Microresonators and Chaos Theory. , 2005, , .		0

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163	Elongation of the surface plasmon polariton propagation length without gain. , 2007, , .		0
164	Anisotropic metamaterials for purely 2-D optics. , 2008, , .		0
165	Modeling Asymmetric Reflectance in Semicontinuous Metal Films Using Generalized Ohm's Law. , 2009, , .		0
166	Stimulated Emission in Microring Cavity with Gold Core. , 2009, , .		0
167	Hypergratings: Sub-Diffraction Optics with Anisotropic Plasmonic Metamaterials. , 2009, , .		0
168	Analytical Technique for Determining the Size of Subwavelength Focal Spots in far Field. , 2010, , .		0
169	Terahertz Ellipsometry of Vertically Grown Carbon Nanotubes. , 2012, , .		0
170	Interscale mixing for high-resolution and highly-compact imaging systems. , 2012, , .		0
171	Meta-Gratings for Highly-Compact Holographic Imaging Systems. , 2013, , .		0
172	Numerically Stable Reconstruction of Wavelength-Scale Objects with Sub-Wavelength Resolution. , 2014, , .		0
173	Angle-independent Salisbury screens based on nonlocal nanowire metamaterials. , 2014, , .		0
174	Diffraction Interface Theory: A nonlocal approach to metasurfaces. , 2015, , .		0
175	Light Emission in Nonlocal Plasmonic Nanowire Metamaterials. , 2015, , .		0
176	Homogenization of nanowire-based composites with anisotropic unit cell and layered substructure. , 2016, , .		0
177	Buried Extraordinary Optical Transmission. , 2016, , .		0
178	Interscale mixing microscopy: far-field imaging beyond the diffraction limit. , 2017, , .		0
179	Magneto-optical nanowire metamaterials. , 2017, , .		0
180	Rigorous Diffraction Interface Theory. , 2017, , .		0

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181	Structural Second Order Nonlinearity in Metamaterials. , 2018, , .		0
182	Directional Spontaneous Emission of Dye on Top of Silver Grating Metasurface. , 2018, , .		0
183	Diffractive optics approach towards subwavelength pixels. , 2018, , .		0
184	Strong Structural Nonlinearity from Plasmonic Metamaterials in the Infrared. , 2019, , .		0
185	Field Enhancement and Ultrafast Plasmonics In Nonlocal Transitional Metamaterials. , 2019, , .		0
186	Monolithic Semiconductor Plasmonic Devices. , 2020, , .		0
187	Physics-Informed Machine Learning for Optical Modes in Composites. Advanced Photonics Research, 0, , 2200073.	1.7	0