

Alexander V Kildishev

List of Publications by Citations

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234
papers

19,374
citations

68
h-index

138
g-index

375
ext. papers

22,763
ext. citations

6.3
avg, IF

7.16
L-index

#	Paper	IF	Citations
234	Planar photonics with metasurfaces. <i>Science</i> , 2013 , 339, 1232009	33.3	1814
233	Optical cloaking with metamaterials. <i>Nature Photonics</i> , 2007 , 1, 224-227	33.9	1515
232	Negative index of refraction in optical metamaterials. <i>Optics Letters</i> , 2005 , 30, 3356-8	3	1273
231	Broadband light bending with plasmonic nanoantennas. <i>Science</i> , 2012 , 335, 427	33.3	1078
230	Metasurface holograms for visible light. <i>Nature Communications</i> , 2013 , 4,	17.4	898
229	Loss-free and active optical negative-index metamaterials. <i>Nature</i> , 2010 , 466, 735-8	50.4	608
228	Ultra-thin, planar, Babinet-inverted plasmonic metalenses. <i>Light: Science and Applications</i> , 2013 , 2, e72-e78	10.7	478
227	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths. <i>Optical Materials Express</i> , 2012 , 2, 478	2.6	468
226	Refractory plasmonics with titanium nitride: broadband metamaterial absorber. <i>Advanced Materials</i> , 2014 , 26, 7959-65	24	432
225	Optical black hole: Broadband omnidirectional light absorber. <i>Applied Physics Letters</i> , 2009 , 95, 041106	3.4	344
224	Broadband high-efficiency half-wave plate: a supercell-based plasmonic metasurface approach. <i>ACS Nano</i> , 2015 , 9, 4111-9	16.7	311
223	Electrically tunable damping of plasmonic resonances with graphene. <i>Nano Letters</i> , 2012 , 12, 5202-6	11.5	260
222	Demonstration of Al:ZnO as a plasmonic component for near-infrared metamaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8834-8	11.5	252
221	Nonmagnetic cloak with minimized scattering. <i>Applied Physics Letters</i> , 2007 , 91, 111105	3.4	226
220	Metamagnetics with rainbow colors. <i>Optics Express</i> , 2007 , 15, 3333-41	3.3	226
219	The Ag dielectric function in plasmonic metamaterials. <i>Optics Express</i> , 2008 , 16, 1186-95	3.3	215
218	Hyperbolic metamaterials: new physics behind a classical problem. <i>Optics Express</i> , 2013 , 21, 15048-64	3.3	214

217	Local heating with lithographically fabricated plasmonic titanium nitride nanoparticles. <i>Nano Letters</i> , 2013 , 13, 6078-83	11.5	199
216	Ultra-thin ultra-smooth and low-loss silver films on a germanium wetting layer. <i>Optics Express</i> , 2010 , 18, 5124-34	3.3	198
215	All-dielectric subwavelength metasurface focusing lens. <i>Optics Express</i> , 2014 , 22, 26212-21	3.3	187
214	Long-range and rapid transport of individual nano-objects by a hybrid electrothermoplasmonic nanotweezer. <i>Nature Nanotechnology</i> , 2016 , 11, 53-9	28.7	177
213	Time-varying metasurfaces and Lorentz non-reciprocity. <i>Optical Materials Express</i> , 2015 , 5, 2459	2.6	166
212	Electrical modulation of fano resonance in plasmonic nanostructures using graphene. <i>Nano Letters</i> , 2014 , 14, 78-82	11.5	165
211	A negative permeability material at red light. <i>Optics Express</i> , 2007 , 15, 1076-83	3.3	161
210	Dual-band negative index metamaterial: double negative at 813 nm and single negative at 772 nm. <i>Optics Letters</i> , 2007 , 32, 1671-3	3	160
209	Enhanced localized fluorescence in plasmonic nanoantennae. <i>Applied Physics Letters</i> , 2008 , 92, 043101	3.4	156
208	Anisotropic metamaterials emulated by tapered waveguides: application to optical cloaking. <i>Physical Review Letters</i> , 2009 , 102, 213901	7.4	155
207	Impedance-matched hyperlens. <i>Optics Letters</i> , 2007 , 32, 3432-4	3	155
206	Drude relaxation rate in grained gold nanoantennas. <i>Nano Letters</i> , 2010 , 10, 916-22	11.5	153
205	Engineering space for light via transformation optics. <i>Optics Letters</i> , 2008 , 33, 43-5	3	149
204	Broadband Hot-Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride. <i>Advanced Optical Materials</i> , 2017 , 5, 1601031	8.1	147
203	Liquid crystal clad near-infrared metamaterials with tunable negative-zero-positive refractive indices. <i>Optics Express</i> , 2007 , 15, 3342-7	3.3	146
202	Wavelength-tunable spasing in the visible. <i>Nano Letters</i> , 2013 , 13, 4106-12	11.5	145
201	Formation of Bound States in the Continuum in Hybrid Plasmonic-Photonic Systems. <i>Physical Review Letters</i> , 2018 , 121, 253901	7.4	136
200	Tunable magnetic response of metamaterials. <i>Applied Physics Letters</i> , 2009 , 95, 033115	3.4	130

199	Yellow-light negative-index metamaterials. <i>Optics Letters</i> , 2009 , 34, 3478-80	3	124
198	Negative refractive index in optics of metal-dielectric composites. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 423	1.7	124
197	Gold nanorod arrays as plasmonic cavity resonators. <i>ACS Nano</i> , 2008 , 2, 2569-76	16.7	122
196	Sub-wavelength interference pattern from volume plasmon polaritons in a hyperbolic medium. <i>Laser and Photonics Reviews</i> , 2013 , 7, 265-271	8.3	121
195	Designs for optical cloaking with high-order transformations. <i>Optics Express</i> , 2008 , 16, 5444-52	3.3	120
194	Photonic spin Hall effect in gap plasmon metasurfaces for on-chip chiroptical spectroscopy. <i>Optica</i> , 2015 , 2, 860	8.6	114
193	Role of epsilon-near-zero substrates in the optical response of plasmonic antennas. <i>Optica</i> , 2016 , 3, 339	8.6	112
192	Performance analysis of nitride alternative plasmonic materials for localized surface plasmon applications. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 107, 285-291	1.9	108
191	Temperature-dependent optical properties of gold thin films. <i>Optical Materials Express</i> , 2016 , 6, 2776	2.6	105
190	Loss-compensated and active hyperbolic metamaterials. <i>Optics Express</i> , 2011 , 19, 25242-54	3.3	104
189	Tunable optical negative-index metamaterials employing anisotropic liquid crystals. <i>Applied Physics Letters</i> , 2007 , 91, 143122	3.4	103
188	Plasmonic nanoantenna arrays for the visible. <i>Metamaterials</i> , 2008 , 2, 45-51		102
187	Lead Halide Perovskite Nanostructures for Dynamic Color Display. <i>ACS Nano</i> , 2018 , 12, 8847-8854	16.7	99
186	Nanoantenna array-induced fluorescence enhancement and reduced lifetimes. <i>New Journal of Physics</i> , 2008 , 10, 125022	2.9	97
185	Experimental verification of an optical negative-index material. <i>Laser Physics Letters</i> , 2006 , 3, 49-55	1.5	97
184	Negative-Index Metamaterials: Going Optical. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006 , 12, 1106-1115	3.8	97
183	Temperature-Dependent Optical Properties of Plasmonic Titanium Nitride Thin Films. <i>ACS Photonics</i> , 2017 , 4, 1413-1420	6.3	91
182	Optically active metasurface with non-chiral plasmonic nanoantennas. <i>Nano Letters</i> , 2014 , 14, 4426-31	11.5	90

181	Material platforms for optical metasurfaces. <i>Nanophotonics</i> , 2018 , 7, 959-987	6.3	90
180	Negative index metamaterial combining magnetic resonators with metal films. <i>Optics Express</i> , 2006 , 14, 7872-7	3.3	85
179	Enhanced Graphene Photodetector with Fractal Metasurface. <i>Nano Letters</i> , 2017 , 17, 57-62	11.5	84
178	Solar-Powered Plasmon-Enhanced Heterogeneous Catalysis. <i>Nanophotonics</i> , 2016 , 5, 112-133	6.3	84
177	Ten years of spasers and plasmonic nanolasers. <i>Light: Science and Applications</i> , 2020 , 9, 90	16.7	82
176	Colloidal Plasmonic Titanium Nitride Nanoparticles: Properties and Applications. <i>Nanophotonics</i> , 2015 , 4, 269-276	6.3	79
175	Material parameter retrieval procedure for general bi-isotropic metamaterials and its application to optical chiral negative-index metamaterial design. <i>Optics Express</i> , 2008 , 16, 11822-9	3.3	79
174	Ultrabright Room-Temperature Sub-Nanosecond Emission from Single Nitrogen-Vacancy Centers Coupled to Nanopatch Antennas. <i>Nano Letters</i> , 2018 , 18, 4837-4844	11.5	78
173	Enhancement of single-photon emission from nitrogen-vacancy centers with TiN/(Al,Sc)N hyperbolic metamaterial. <i>Laser and Photonics Reviews</i> , 2015 , 9, 120-127	8.3	75
172	Holey-metal lenses: sieving single modes with proper phases. <i>Nano Letters</i> , 2013 , 13, 159-63	11.5	75
171	All-optical nonlinear activation function for photonic neural networks [Invited]. <i>Optical Materials Express</i> , 2018 , 8, 3851	2.6	74
170	Plasmonics on the slope of enlightenment: the role of transition metal nitrides. <i>Faraday Discussions</i> , 2015 , 178, 71-86	3.6	70
169	Roadmap on metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 073002	1.7	69
168	Colors with plasmonic nanostructures: A full-spectrum review. <i>Applied Physics Reviews</i> , 2019 , 6, 041308	17.3	69
167	Machine-learning-assisted metasurface design for high-efficiency thermal emitter optimization. <i>Applied Physics Reviews</i> , 2020 , 7, 021407	17.3	67
166	Ultrathin and multicolour optical cavities with embedded metasurfaces. <i>Nature Communications</i> , 2018 , 9, 2673	17.4	66
165	Photonic Bound States in the Continuum: From Basics to Applications. <i>Advanced Optical Materials</i> , 2021 , 9, 2001469	8.1	64
164	Metal nanoslit lenses with polarization-selective design. <i>Optics Letters</i> , 2011 , 36, 451-3	3	62

163	Frequency-domain simulations of a negative-index material with embedded gain. <i>Optics Express</i> , 2009 , 17, 24060-74	3.3	61
162	Highly directional spaser array for the red wavelength region. <i>Laser and Photonics Reviews</i> , 2014 , 8, 896-903	3.3	60
161	Near-field excitation of nanoantenna resonance. <i>Optics Express</i> , 2007 , 15, 13682-8	3.3	60
160	Quasi-coherent thermal emitter based on refractory plasmonic materials. <i>Optical Materials Express</i> , 2015 , 5, 2721	2.6	57
159	Evolution of photonic metasurfaces: from static to dynamic. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 501	1.7	56
158	Transformation optics and metamaterials. <i>Physics-Uspexhi</i> , 2011 , 54, 53-63	2.8	56
157	Broadband enhancement of spontaneous emission from nitrogen-vacancy centers in nanodiamonds by hyperbolic metamaterials. <i>Applied Physics Letters</i> , 2013 , 102, 173114	3.4	55
156	Effect of metallic and hyperbolic metamaterial surfaces on electric and magnetic dipole emission transitions. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 103, 553-558	1.9	54
155	Transformation optics: approaching broadband electromagnetic cloaking. <i>New Journal of Physics</i> , 2008 , 10, 115029	2.9	52
154	Graphene: A Dynamic Platform for Electrical Control of Plasmonic Resonance. <i>Nanophotonics</i> , 2015 , 4, 214-223	6.3	51
153	Nanolasers Enabled by Metallic Nanoparticles: From Spasers to Random Lasers. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700212	8.3	50
152	Unidirectional spaser in symmetry-broken plasmonic core-shell nanocavity. <i>Scientific Reports</i> , 2013 , 3, 1241	4.9	49
151	Near-infrared metamaterials with dual-band negative-index characteristics. <i>Optics Express</i> , 2007 , 15, 1647-52	3.3	49
150	Experimental observation of the trapped rainbow. <i>Applied Physics Letters</i> , 2010 , 96, 211121	3.4	46
149	Plasmonic waveguides clad by hyperbolic metamaterials. <i>Optics Letters</i> , 2014 , 39, 4663-6	3	44
148	Pancharatnam Berry Phase Manipulating Metasurface for Visible Color Hologram Based on Low Loss Silver Thin Film. <i>Advanced Optical Materials</i> , 2017 , 5, 1700196	8.1	43
147	Ultrathin, ultrasmooth, and low-loss silver films via wetting and annealing. <i>Applied Physics Letters</i> , 2010 , 97, 211107	3.4	43
146	Maxwell fish-eye and Eaton lenses emulated by microdroplets. <i>Optics Letters</i> , 2010 , 35, 3396-8	3	43

145	Controlling the Polarization State of Light with Plasmonic Metal Oxide Metasurface. <i>ACS Nano</i> , 2016 , 10, 9326-9333	16.7	43
144	FDTD modeling of realistic semicontinuous metal films. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 100, 159-168	1.9	42
143	Finite-width plasmonic waveguides with hyperbolic multilayer cladding. <i>Optics Express</i> , 2015 , 23, 9681-9333	3.3	41
142	Temperature-Dependent Optical Properties of Single Crystalline and Polycrystalline Silver Thin Films. <i>ACS Photonics</i> , 2017 , 4, 1083-1091	6.3	38
141	Zinc Oxide Based Plasmonic Multilayer Resonator: Localized and Gap Surface Plasmon in the Infrared. <i>ACS Photonics</i> , 2015 , 2, 1224-1230	6.3	38
140	Long-range plasmonic waveguides with hyperbolic cladding. <i>Optics Express</i> , 2015 , 23, 31109-19	3.3	38
139	High-Resolution Large-Ensemble Nanoparticle Trapping with Multifunctional Thermoplasmonic Nanohole Metasurface. <i>ACS Nano</i> , 2018 , 12, 5376-5384	16.7	36
138	Cylinder light concentrator and absorber: theoretical description. <i>Optics Express</i> , 2010 , 18, 16646-62	3.3	35
137	Lasing Action with Gold Nanorod Hyperbolic Metamaterials. <i>ACS Photonics</i> , 2017 , 4, 674-680	6.3	34
136	Optical Dispersion Models for Time-Domain Modeling of Metal-Dielectric Nanostructures. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 1150-1153	2	34
135	Interactions of magnetic resonance imaging radio frequency magnetic fields with elongated medical implants. <i>Journal of Applied Physics</i> , 2000 , 87, 6188-6190	2.5	34
134	Heating near implanted medical devices by the MRI RF-magnetic field. <i>IEEE Transactions on Magnetics</i> , 1999 , 35, 4133-4135	2	34
133	Dynamic Control of Nanocavities with Tunable Metal Oxides. <i>Nano Letters</i> , 2018 , 18, 740-746	11.5	31
132	Plasmon resonance in multilayer graphene nanoribbons. <i>Laser and Photonics Reviews</i> , 2015 , 9, 650-655	8.3	31
131	Power deposition inside a phantom for testing of MRI heating. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 4185-4187	2	31
130	Ultrafast quantum photonics enabled by coupling plasmonic nanocavities to strongly radiative antennas. <i>Optica</i> , 2020 , 7, 463	8.6	31
129	Plasmonic Titanium Nitride Nanostructures via Nitridation of Nanopatterned Titanium Dioxide. <i>Advanced Optical Materials</i> , 2017 , 5, 1600717	8.1	30
128	Optical Metamagnetism and Negative-Index Metamaterials. <i>MRS Bulletin</i> , 2008 , 33, 921-926	3.2	30

127	Machine learning-assisted global optimization of photonic devices. <i>Nanophotonics</i> , 2020 , 10, 371-383	6.3	30
126	Metasurface perfect absorber based on guided resonance of a photonic hypercrystal. <i>Physical Review B</i> , 2016 , 94,	3.3	28
125	Fabrication and realistic modeling of three-dimensional metal-dielectric composites. <i>Journal of Nanophotonics</i> , 2011 , 5, 051513	1.1	28
124	Achieving full-color generation with polarization-tunable perfect light absorption. <i>Optical Materials Express</i> , 2019 , 9, 779	2.6	28
123	Surface-plasmon opto-magnetic field enhancement for all-optical magnetization switching. <i>Optical Materials Express</i> , 2017 , 7, 4316	2.6	25
122	Adiabatically tapered hyperbolic metamaterials for dispersion control of high-k waves. <i>Nano Letters</i> , 2015 , 15, 498-505	11.5	24
121	Enhancing the graphene photocurrent using surface plasmons and a p-n junction. <i>Light: Science and Applications</i> , 2020 , 9, 126	16.7	24
120	Bianisotropic Effective Parameters of Optical Metamagnetics and Negative-Index Materials. <i>Proceedings of the IEEE</i> , 2011 , 99, 1691-1700	14.3	23
119	Materializing a binary hyperlens design. <i>Applied Physics Letters</i> , 2009 , 94, 071102	3.4	23
118	Stochastic optimization of low-loss optical negative-index metamaterial. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, A34	1.7	22
117	On-Chip Hybrid Photonic-Plasmonic Waveguides with Ultrathin Titanium Nitride Films. <i>ACS Photonics</i> , 2018 , 5, 4423-4431	6.3	22
116	Enabling Optical Steganography, Data Storage, and Encryption with Plasmonic Colors. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000343	8.3	22
115	Spasers with retardation and gain saturation: electrodynamic description of fields and optical cross-sections. <i>Optical Materials Express</i> , 2015 , 5, 2546	2.6	20
114	Controlling the wave focal structure of metallic nanoslit lenses with liquid crystals. <i>Laser Physics Letters</i> , 2011 , 8, 828-832	1.5	19
113	Second harmonic generation with plasmonic metasurfaces: direct comparison of electric and magnetic resonances. <i>Optical Materials Express</i> , 2015 , 5, 2682	2.6	17
112	Single and Multi-Mode Directional Lasing from Arrays of Dielectric Nanoresonators. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000411	8.3	17
111	Spatial and Temporal Nanoscale Plasmonic Heating Quantified by Thermoreflectance. <i>Nano Letters</i> , 2019 , 19, 3796-3803	11.5	16
110	Homogenization of bi-anisotropic metasurfaces. <i>Optics Express</i> , 2013 , 21, 21941-50	3.3	16

109	Translation of nanoantenna hot spots by a metal-dielectric composite superlens. <i>Applied Physics Letters</i> , 2009 , 95, 033114	3.4	16
108	Diffractive nanoslit lenses for subwavelength focusing. <i>Optics Communications</i> , 2012 , 285, 3368-3372	2	15
107	Designing optimal nanofocusing with a gradient hyperlens. <i>Nanophotonics</i> , 2017 , 7, 479-487	6.3	14
106	Numerical modeling of plasmonic nanoantennas with realistic 3D roughness and distortion. <i>Sensors</i> , 2011 , 11, 7178-87	3.8	14
105	Fabrication and optical characterizations of smooth silver-silica nanocomposite films. <i>Laser Physics Letters</i> , 2010 , 7, 677-684	1.5	14
104	Enhancing sensitivity to ambient refractive index with tunable few-layer graphene/hBN nanoribbons. <i>Photonics Research</i> , 2019 , 7, 815	6	14
103	Multipole analysis of an elongated magnetic source by a cylindrical sensor array. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2465-2467	2	13
102	Photonic topological phase transition on demand. <i>Nanophotonics</i> , 2019 , 8, 1349-1356	6.3	11
101	Near field enhancement in silver nanoantenna-superlens systems. <i>Applied Physics Letters</i> , 2012 , 101, 021109	3.4	11
100	Continuous-discontinuous Galerkin time domain (CDGTD) method with generalized dispersive material (GDM) model for computational photonics. <i>Optics Express</i> , 2018 , 26, 29005-29016	3.3	11
99	Experimental retrieval of the kinetic parameters of a dye in a solid film. <i>Optics Express</i> , 2011 , 19, 18253-9,3	9.3	10
98	Experimental verification of two-dimensional spatial harmonic analysis at oblique light incidence. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 2465	1.7	10
97	The validation of the parallel three-dimensional solver for analysis of optical plasmonic bi-periodic multilayer nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 365-374	2.6	10
96	Efficient simulation of non-linear effects in 2D optical nanostructures to TM waves. <i>Optics Communications</i> , 2010 , 283, 1628-1632	2	10
95	Plasmonic metasurfaces for subtractive color filtering: optimized nonlinear regression models. <i>Optics Letters</i> , 2018 , 43, 4815-4818	3	10
94	Time-domain dynamics of saturation of absorption using multilevel atomic systems. <i>Optical Materials Express</i> , 2018 , 8, 3829	2.6	10
93	Rapid Classification of Quantum Sources Enabled by Machine Learning. <i>Advanced Quantum Technologies</i> , 2020 , 3, 2000067	4.3	10
92	Frequency-domain modeling of TM wave propagation in optical nanostructures with a third-order nonlinear response. <i>Optics Letters</i> , 2009 , 34, 3364-6	3	9

91	Simplified model for periodic nanoantennae: linear model and inverse design. <i>Optics Express</i> , 2009 , 17, 11607-17	3.3	9
90	Method for detection of broken bars in induction motors. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 3608-3610	3	9
89	Multipole imaging of an elongated magnetic source. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 3108-3111	3	9
88	Trapped rainbow techniques for spectroscopy on a chip and fluorescence enhancement. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 106, 577-581	1.9	8
87	A high-order accurate scheme for Maxwell's equations with a generalized dispersive material model. <i>Journal of Computational Physics</i> , 2019 , 378, 411-444	4.1	8
86	Engineered nonlinear materials using gold nanoantenna array. <i>Scientific Reports</i> , 2018 , 8, 780	4.9	7
85	Power Balance and Temperature in Optically Pumped Spasers and Nanolasers. <i>ACS Photonics</i> , 2018 , 5, 3695-3703	6.3	7
84	Laser-induced color printing on semicontinuous silver films: red, green and blue. <i>Optical Materials Express</i> , 2019 , 9, 1528	2.6	7
83	Artificial Synapse with Mnemonic Functionality using GSST-based Photonic Integrated Memory 2020 ,		7
82	Exploring Time-Resolved Multiphysics of Active Plasmonic Systems with Experiment-Based Gain Models. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800071	8.3	7
81	Time-domain dynamics of reverse saturable absorbers with application to plasmon-enhanced optical limiters. <i>Nanophotonics</i> , 2018 , 8, 145-151	6.3	7
80	Remote Sensing of High Temperatures with Refractory, Direct-Contact Optical Metacavity. <i>ACS Photonics</i> , 2020 , 7, 472-479	6.3	6
79	Tuning Topology of Photonic Systems with Transparent Conducting Oxides. <i>ACS Photonics</i> , 2019 , 6, 1922-1930	6.3	6
78	Light propagation through random hyperbolic media. <i>Optics Letters</i> , 2013 , 38, 971-3	3	6
77	Broadband Transformation Optics Devices. <i>Materials</i> , 2010 , 3, 4793-4810	3.5	6
76	Comment on "Negative refractive index in artificial metamaterials". <i>Optics Letters</i> , 2007 , 32, 1510-1	3	6
75	Chip-Compatible Quantum Plasmonic Launcher. <i>Advanced Optical Materials</i> , 2020 , 8, 2000889	8.1	6
74	Lithography-Free Plasmonic Color Printing with Femtosecond Laser on Semicontinuous Silver Films. <i>ACS Photonics</i> , 2021 , 8, 521-530	6.3	6

73	Modulating phase by metasurfaces with gated ultra-thin TiN films. <i>Nanoscale</i> , 2019 , 11, 11167-11172	7.7	5
72	Time-domain modeling of silver nanowires-graphene transparent conducting electrodes 2013 ,		5
71	Coupling effect in a near-field objectSuperlens system. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 107, 83-88	2.6	5
70	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths [erratum]. <i>Optical Materials Express</i> , 2013 , 3, 1658	2.6	5
69	Modeling nonlinear effects in 2D optical metamagnetics. <i>Metamaterials</i> , 2010 , 4, 77-82		5
68	Fast spheroidal multipole imaging of elementary magnetic sources on the axis. <i>Journal of Applied Physics</i> , 2001 , 89, 6716-6718	2.5	5
67	Enhanced absorption and photoluminescence from dye-containing thin polymer film on plasmonic array. <i>Optics Express</i> , 2019 , 27, 5083-5096	3.3	5
66	Expanding the theory of circular omnidirectional light concentrators to elliptic and spheroidal designs. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 044014	1.7	5
65	Experimental validation of a new bianisotropic parameter retrieval technique using plasmonic metasurfaces made of V-shape antennas 2013 ,		4
64	Direct measurement of group delay dispersion in metamagnetics for ultrafast pulse shaping. <i>Optics Express</i> , 2012 , 20, 23082-7	3.3	4
63	Machine-learning-assisted topology optimization for highly efficient thermal emitter design 2019 ,		4
62	Elliptic cylindrical pseudo-optical black hole for omnidirectional light absorber: comment. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 719	1.7	3
61	Mid-infrared hyperbolic metamaterial based on graphene-dielectric multilayers 2015 ,		3
60	Efficient time-domain model of the graphene dielectric function 2013 ,		3
59	Fast Eigensolver for Plasmonic Metasurfaces. <i>Optical Materials Express</i> , 2014 , 4, 288	2.6	3
58	Metal nanoslit lenses with polarization-selective design: erratum. <i>Optics Letters</i> , 2011 , 36, 1244	3	3
57	Numerical modeling of active plasmonic metamaterials 2011 ,		3
56	Electrically Tunable Plasmonic Resonances with Graphene 2012 ,		3

55	Multipole characterization of a magnetic source using a truncated SVD. <i>IEEE Transactions on Magnetism</i> , 2004 , 40, 2176-2178	2	3
54	Application of spheroidal functions in magnetostatics. <i>IEEE Transactions on Magnetism</i> , 2004 , 40, 846-849		3
53	On-Chip Single-Layer Integration of Diamond Spins with Microwave and Plasmonic Channels. <i>ACS Photonics</i> , 2020 , 7, 2018-2026	6.3	3
52	Extraordinarily large permittivity modulation in zinc oxide for dynamic nanophotonics. <i>Materials Today</i> , 2021 , 43, 27-36	21.8	3
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