

Alexander V Kildishev

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	High-order accurate schemes for Maxwell's equations with nonlinear active media and material interfaces. <i>Journal of Computational Physics</i> , 2022 , 456, 111051	4.1	0
233	Optimizing Startshot Lightsail Design: A Generative Network-Based Approach. <i>ACS Photonics</i> , 2022 , 9, 190-196	6.3	2
232	Gaussian dispersion analysis in the time domain: efficient conversion with Padé approximants. <i>Computer Physics Communications</i> , 2022 , 108413	4.2	1
231	Photonic Bound States in the Continuum: From Basics to Applications. <i>Advanced Optical Materials</i> , 2021 , 9, 2001469	8.1	64
230	Extraordinarily large permittivity modulation in zinc oxide for dynamic nanophotonics. <i>Materials Today</i> , 2021 , 43, 27-36	21.8	3
229	Lithography-Free Plasmonic Color Printing with Femtosecond Laser on Semicontinuous Silver Films. <i>ACS Photonics</i> , 2021 , 8, 521-530	6.3	6
228	Single and Multi-Mode Directional Lasing from Arrays of Dielectric Nanoresonators. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000411	8.3	17
227	Artificial Synapse with Mnemonic Functionality using GSST-based Photonic Integrated Memory 2021 , 35, 1447-1449		2
226	Enabling Optical Steganography, Data Storage, and Encryption with Plasmonic Colors. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000343	8.3	22
225	Machine learning framework for quantum sampling of highly constrained, continuous optimization problems. <i>Applied Physics Reviews</i> , 2021 , 8, 041418	17.3	3
224	Computationally Efficient Surface Conductivity Graphene Model for Active Metadevices. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1825-1835	4.9	1
223	Machine-learning-assisted metasurface design for high-efficiency thermal emitter optimization. <i>Applied Physics Reviews</i> , 2020 , 7, 021407	17.3	67
222	Remote Sensing of High Temperatures with Refractory, Direct-Contact Optical Metacavity. <i>ACS Photonics</i> , 2020 , 7, 472-479	6.3	6
221	GSST-based photonic memory multilevel perceptron 2020 ,		1
220	Non-fading Plasmonic Color Printing on Semicontinuous Metal Films with Protective Atomic Layer Deposition 2020 ,		1
219	Ultrafast quantum photonics enabled by coupling plasmonic nanocavities to strongly radiative antennas. <i>Optica</i> , 2020 , 7, 463	8.6	31
218	Machine learning-assisted global optimization of photonic devices. <i>Nanophotonics</i> , 2020 , 10, 371-383	6.3	30

217	Artificial Synapse with Mnemonic Functionality using GSST-based Photonic Integrated Memory 2020 ,		7
216	Dynamically controlled random lasing with colloidal titanium carbide MXene. <i>Optical Materials Express</i> , 2020 , 10, 2304	2.6	1
215	Ten years of spasers and plasmonic nanolasers. <i>Light: Science and Applications</i> , 2020 , 9, 90	16.7	82
214	On-Chip Single-Layer Integration of Diamond Spins with Microwave and Plasmonic Channels. <i>ACS Photonics</i> , 2020 , 7, 2018-2026	6.3	3
213	Enhancing the graphene photocurrent using surface plasmons and a p-n junction. <i>Light: Science and Applications</i> , 2020 , 9, 126	16.7	24
212	Chip-Compatible Quantum Plasmonic Launcher. <i>Advanced Optical Materials</i> , 2020 , 8, 2000889	8.1	6
211	Rapid Classification of Quantum Sources Enabled by Machine Learning. <i>Advanced Quantum Technologies</i> , 2020 , 3, 2000067	4.3	10
210	A high-order accurate scheme for Maxwell's equations with a Generalized Dispersive Material (GDM) model and material interfaces. <i>Journal of Computational Physics</i> , 2020 , 412, 109424	4.1	2
209	Spatial and Temporal Nanoscale Plasmonic Heating Quantified by Thermoreflectance. <i>Nano Letters</i> , 2019 , 19, 3796-3803	11.5	16
208	Modulating phase by metasurfaces with gated ultra-thin TiN films. <i>Nanoscale</i> , 2019 , 11, 11167-11172	7.7	5
207	Photonic topological phase transition on demand. <i>Nanophotonics</i> , 2019 , 8, 1349-1356	6.3	11
206	Tuning Topology of Photonic Systems with Transparent Conducting Oxides. <i>ACS Photonics</i> , 2019 , 6, 1922-1930	19.3	6
205	Roadmap on metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 073002	1.7	69
204	Colors with plasmonic nanostructures: A full-spectrum review. <i>Applied Physics Reviews</i> , 2019 , 6, 041308	17.3	69
203	High Q-Factor All-Dielectric Metasurface Based on Bound States in the Continuum 2019 ,		2
202	Laser Color Printing on Semicontinuous Silver Films 2019 ,		1
201	Machine-learning-assisted topology optimization for highly efficient thermal emitter design 2019 ,		4
200	Enhanced absorption and photoluminescence from dye-containing thin polymer film on plasmonic array. <i>Optics Express</i> , 2019 , 27, 5083-5096	3.3	5

199	Achieving full-color generation with polarization-tunable perfect light absorption. <i>Optical Materials Express</i> , 2019 , 9, 779	2.6	28
198	Laser-induced color printing on semicontinuous silver films: red, green and blue. <i>Optical Materials Express</i> , 2019 , 9, 1528	2.6	7
197	Enhancing sensitivity to ambient refractive index with tunable few-layer graphene/hBN nanoribbons. <i>Photonics Research</i> , 2019 , 7, 815	6	14
196	Waves stranded at sea: bound states in the continuum in a strong coupling regime. <i>Advanced Photonics</i> , 2019 , 1, 1	8.1	
195	Hybrid Photonic-Plasmonic Waveguides with Ultrathin TiN 2019 ,		1
194	Feature issue introduction: advanced computational nanophotonics: from materials to devices. <i>Optical Materials Express</i> , 2019 , 9, 1967	2.6	
193	Artificial-intelligence-assisted photonics (Conference Presentation) 2019 ,		2
192	High-Speed Quantum Photonics with Plasmonic Metamaterials Empowered by Machine Learning 2019 ,		1
191	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
190	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
189	Engineered nonlinear materials using gold nanoantenna array. <i>Scientific Reports</i> , 2018 , 8, 780	4.9	7
188	Dynamic Control of Nanocavities with Tunable Metal Oxides. <i>Nano Letters</i> , 2018 , 18, 740-746	11.5	31
187	Ultrathin and multicolour optical cavities with embedded metasurfaces. <i>Nature Communications</i> , 2018 , 9, 2673	17.4	66
186	Power Balance and Temperature in Optically Pumped Spasers and Nanolasers. <i>ACS Photonics</i> , 2018 , 5, 3695-3703	6.3	7
185	Lead Halide Perovskite Nanostructures for Dynamic Color Display. <i>ACS Nano</i> , 2018 , 12, 8847-8854	16.7	99
184	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
183	Plasmonic metasurfaces for subtractive color filtering: optimized nonlinear regression models. <i>Optics Letters</i> , 2018 , 43, 4815-4818	3	10
182	Time-domain dynamics of saturation of absorption using multilevel atomic systems. <i>Optical Materials Express</i> , 2018 , 8, 3829	2.6	10

181	All-optical nonlinear activation function for photonic neural networks [Invited]. <i>Optical Materials Express</i> , 2018 , 8, 3851	2.6	74
180	Thermoreflectance Imaging of Optically Pumped Gap Plasmon Structures 2018 ,		2
179	High Temperature Sensing with Refractory Plasmonic Metasurfaces 2018 ,		1
178	Emerging materials for tailorable nanophotonic devices 2018 ,		1
177	Formation of Bound States in the Continuum in Hybrid Plasmonic-Photonic Systems. <i>Physical Review Letters</i> , 2018 , 121, 253901	7.4	136
176	Time-domain dynamics of reverse saturable absorbers with application to plasmon-enhanced optical limiters. <i>Nanophotonics</i> , 2018 , 8, 145-151	6.3	7
175	On-Chip Hybrid Photonic-Plasmonic Waveguides with Ultrathin Titanium Nitride Films. <i>ACS Photonics</i> , 2018 , 5, 4423-4431	6.3	22
174	MXenes for Plasmonic and Metamaterial Devices 2018 ,		1
173	Material platforms for optical metasurfaces. <i>Nanophotonics</i> , 2018 , 7, 959-987	6.3	90
172	High-Resolution Large-Ensemble Nanoparticle Trapping with Multifunctional Thermoplasmonic Nanohole Metasurface. <i>ACS Nano</i> , 2018 , 12, 5376-5384	16.7	36
171	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
170	Plasmonic Titanium Nitride Nanostructures via Nitridation of Nanopatterned Titanium Dioxide. <i>Advanced Optical Materials</i> , 2017 , 5, 1600717	8.1	30
169	Lasing Action with Gold Nanorod Hyperbolic Metamaterials. <i>ACS Photonics</i> , 2017 , 4, 674-680	6.3	34
168	Broadband Hot-Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride. <i>Advanced Optical Materials</i> , 2017 , 5, 1601031	8.1	147
167	Temperature-Dependent Optical Properties of Single Crystalline and Polycrystalline Silver Thin Films. <i>ACS Photonics</i> , 2017 , 4, 1083-1091	6.3	38
166	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
165	Temperature-Dependent Optical Properties of Plasmonic Titanium Nitride Thin Films. <i>ACS Photonics</i> , 2017 , 4, 1413-1420	6.3	91
164	Enhanced Graphene Photodetector with Fractal Metasurface. <i>Nano Letters</i> , 2017 , 17, 57-62	11.5	84

163	Patterned multilayer metamaterial for fast and efficient photon collection from dipolar emitters. <i>Optics Letters</i> , 2017 , 42, 3968-3971	3	2
162	Solar-Energy Harvesting: Broadband Hot-Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride (Advanced Optical Materials 15/2017). <i>Advanced Optical Materials</i> , 2017 , 5,	8.1	2
161	Designing optimal nanofocusing with a gradient hyperlens. <i>Nanophotonics</i> , 2017 , 7, 479-487	6.3	14
160	Nanolasers Enabled by Metallic Nanoparticles: From Spasers to Random Lasers. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700212	8.3	50
159	Surface-plasmon opto-magnetic field enhancement for all-optical magnetization switching. <i>Optical Materials Express</i> , 2017 , 7, 4316	2.6	25
158	Broadband hot electron generation for solar energy conversion with plasmonic titanium nitride 2017 ,		1
157	Temperature-dependent optical properties of gold thin films. <i>Optical Materials Express</i> , 2016 , 6, 2776	2.6	105
156	Metasurface perfect absorber based on guided resonance of a photonic hypercrystal. <i>Physical Review B</i> , 2016 , 94,	3.3	28
155	Role of epsilon-near-zero substrates in the optical response of plasmonic antennas. <i>Optica</i> , 2016 , 3, 339	8.6	112
154	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
153	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
152	Photonic Time-Crystals and Momentum Band-Gaps 2016 ,		1
151	Implementation of Metasurface Based Nano-Cavities 2016 ,		1
150	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
149	Solar-Powered Plasmon-Enhanced Heterogeneous Catalysis. <i>Nanophotonics</i> , 2016 , 5, 112-133	6.3	84
148	Controlling the Polarization State of Light with Plasmonic Metal Oxide Metasurface. <i>ACS Nano</i> , 2016 , 10, 9326-9333	16.7	43
147	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
146	Finite-width plasmonic waveguides with hyperbolic multilayer cladding. <i>Optics Express</i> , 2015 , 23, 9681-933	3.3	41

145	Broadband high-efficiency half-wave plate: a supercell-based plasmonic metasurface approach. <i>ACS Nano</i> , 2015 , 9, 4111-9	16.7	311
144	Photonic spin Hall effect in gap plasmon metasurfaces for on-chip chiroptical spectroscopy. <i>Optica</i> , 2015 , 2, 860	8.6	114
143	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
142	Mid-infrared hyperbolic metamaterial based on graphene-dielectric multilayers 2015 ,		3
141	Graphene: A Dynamic Platform for Electrical Control of Plasmonic Resonance. <i>Nanophotonics</i> , 2015 , 4, 214-223	6.3	51
140	Color Hologram Generation Using a Pancharatnam-Berry Phase Manipulating Metasurface 2015 ,		1
139	Adiabatically tapered hyperbolic metamaterials for dispersion control of high-k waves. <i>Nano Letters</i> , 2015 , 15, 498-505	11.5	24
138	Plasmonics on the slope of enlightenment: the role of transition metal nitrides. <i>Faraday Discussions</i> , 2015 , 178, 71-86	3.6	70
137	Colloidal Plasmonic Titanium Nitride Nanoparticles: Properties and Applications. <i>Nanophotonics</i> , 2015 , 4, 269-276	6.3	79
136	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
135	Long-range plasmonic waveguides with hyperbolic cladding. <i>Optics Express</i> , 2015 , 23, 31109-19	3.3	38
134	Time-varying metasurfaces and Lorentz non-reciprocity. <i>Optical Materials Express</i> , 2015 , 5, 2459	2.6	166
133	Second harmonic generation with plasmonic metasurfaces: direct comparison of electric and magnetic resonances. <i>Optical Materials Express</i> , 2015 , 5, 2682	2.6	17
132	Plasmon resonance in multilayer graphene nanoribbons. <i>Laser and Photonics Reviews</i> , 2015 , 9, 650-655	8.3	31
131	Quasi-coherent thermal emitter based on refractory plasmonic materials. <i>Optical Materials Express</i> , 2015 , 5, 2721	2.6	57
130	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
129	Electrical modulation of fano resonance in plasmonic nanostructures using graphene. <i>Nano Letters</i> , 2014 , 14, 78-82	11.5	165
128	Plasmonic waveguides cladded by hyperbolic metamaterials. <i>Optics Letters</i> , 2014 , 39, 4663-6	3	44

127	Optically active metasurface with non-chiral plasmonic nanoantennas. <i>Nano Letters</i> , 2014 , 14, 4426-31	11.5	90
126	Highly directional spaser array for the red wavelength region. <i>Laser and Photonics Reviews</i> , 2014 , 8, 896-903		60
125	Titanium Nitride as a Refractory Plasmonic Material for High Temperature Applications 2014 ,		1
124	Fast Eigensolver for Plasmonic Metasurfaces. <i>Optical Materials Express</i> , 2014 , 4, 288	2.6	3
123	Refractory plasmonics with titanium nitride: broadband metamaterial absorber. <i>Advanced Materials</i> , 2014 , 26, 7959-65	24	432
122	All-dielectric subwavelength metasurface focusing lens. <i>Optics Express</i> , 2014 , 22, 26212-21	3.3	187
121	Optical characteristics of vertically aligned arrays of branched silver nanowires 2014 ,		1
120	Wavelength-tunable spasing in the visible. <i>Nano Letters</i> , 2013 , 13, 4106-12	11.5	145
119	Efficient time-domain model of the graphene dielectric function 2013 ,		3
118	Planar photonics with metasurfaces. <i>Science</i> , 2013 , 339, 1232009	33.3	1814
117	Metasurface holograms for visible light. <i>Nature Communications</i> , 2013 , 4,	17.4	898
116	Experimental validation of a new bianisotropic parameter retrieval technique using plasmonic metasurfaces made of V-shape antennas 2013 ,		4
115	Time-domain modeling of silver nanowires-graphene transparent conducting electrodes 2013 ,		5
114	Unidirectional spaser in symmetry-broken plasmonic core-shell nanocavity. <i>Scientific Reports</i> , 2013 , 3, 1241	4.9	49
113	Ultra-thin, planar, Babinet-inverted plasmonic metalenses. <i>Light: Science and Applications</i> , 2013 , 2, e72-e77		478
112	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
111	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
110	Active and Tuneable Metallic Nanoslit Lenses 2013 , 289-316		0

109	Holey-metal lenses: sieving single modes with proper phases. <i>Nano Letters</i> , 2013 , 13, 159-63	11.5	75
108	Local heating with lithographically fabricated plasmonic titanium nitride nanoparticles. <i>Nano Letters</i> , 2013 , 13, 6078-83	11.5	199
107	Homogenization of bi-anisotropic metasurfaces. <i>Optics Express</i> , 2013 , 21, 21941-50	3.3	16
106	Light propagation through random hyperbolic media. <i>Optics Letters</i> , 2013 , 38, 971-3	3	6
105	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths [erratum]. <i>Optical Materials Express</i> , 2013 , 3, 1658	2.6	5
104	Hyperbolic metamaterials: new physics behind a classical problem. <i>Optics Express</i> , 2013 , 21, 15048-64	3.3	214
103	Plasmonic Metasurface Based Ultra-thin Phase Holograms and Planar Micro-lenses 2013 ,		1
102	Nanostructured Transparent Conductive Oxide Films for Plasmonic Applications 2013 ,		2
101	Diffractive nanoslit lenses for subwavelength focusing. <i>Optics Communications</i> , 2012 , 285, 3368-3372	2	15
100	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
99	Electrically tunable damping of plasmonic resonances with graphene. <i>Nano Letters</i> , 2012 , 12, 5202-6	11.5	260
98	Metal Nitrides for Plasmonic Applications 2012 ,		2
97	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
96	Broadband light bending with plasmonic nanoantennas. <i>Science</i> , 2012 , 335, 427	33.3	1078
95	Near field enhancement in silver nanoantenna-superlens systems. <i>Applied Physics Letters</i> , 2012 , 101, 021109	3.4	11
94	Coupling effect in a near-field object-superlens system. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 107, 83-88	2.6	5
93	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
92	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths. <i>Optical Materials Express</i> , 2012 , 2, 478	2.6	468

91	Direct measurement of group delay dispersion in metamagnetics for ultrafast pulse shaping. <i>Optics Express</i> , 2012 , 20, 23082-7	3.3	4
90	Electrically Tunable Plasmonic Resonances with Graphene 2012 ,		3
89	Nitrides as alternative materials for localized surface plasmon applications 2012 ,		2
88	Experimental retrieval of the kinetic parameters of a dye in a solid film. <i>Optics Express</i> , 2011 , 19, 18253-9	3.3	10
87	Loss-compensated and active hyperbolic metamaterials. <i>Optics Express</i> , 2011 , 19, 25242-54	3.3	104
86	Metal nanoslit lenses with polarization-selective design. <i>Optics Letters</i> , 2011 , 36, 451-3	3	62
85	Metal nanoslit lenses with polarization-selective design: erratum. <i>Optics Letters</i> , 2011 , 36, 1244	3	3
84	Bianisotropic Effective Parameters of Optical Metamagnetics and Negative-Index Materials. <i>Proceedings of the IEEE</i> , 2011 , 99, 1691-1700	14.3	23
83	Optical Dispersion Models for Time-Domain Modeling of Metal-Dielectric Nanostructures. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 1150-1153	2	34
82	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
81	Controlling the wave focal structure of metallic nanoslit lenses with liquid crystals. <i>Laser Physics Letters</i> , 2011 , 8, 828-832	1.5	19
80	Numerical modeling of active plasmonic metamaterials 2011 ,		3
79	Fabrication and realistic modeling of three-dimensional metal-dielectric composites. <i>Journal of Nanophotonics</i> , 2011 , 5, 051513	1.1	28
78	Studies of plasmonic hot-spot translation by a metal-dielectric layered superlens 2011 ,		1
77	Transformation optics and metamaterials. <i>Physics-Uspekhi</i> , 2011 , 54, 53-63	2.8	56
76	Numerical modeling of plasmonic nanoantennas with realistic 3D roughness and distortion. <i>Sensors</i> , 2011 , 11, 7178-87	3.8	14
75	Loss-free and active optical negative-index metamaterials. <i>Nature</i> , 2010 , 466, 735-8	50.4	608
74	Maxwell fisheye and Eaton lenses emulated by a microdroplet 2010 ,		1

73	Ultrathin, ultrasmooth, and low-loss silver films via wetting and annealing. <i>Applied Physics Letters</i> , 2010 , 97, 211107	3.4	43
72	Broadband Transformation Optics Devices. <i>Materials</i> , 2010 , 3, 4793-4810	3.5	6
71	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
70	Cylinder light concentrator and absorber: theoretical description. <i>Optics Express</i> , 2010 , 18, 16646-62	3.3	35
69	Maxwell fish-eye and Eaton lenses emulated by microdroplets. <i>Optics Letters</i> , 2010 , 35, 3396-8	3	43
68	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
67	Experimental observation of the trapped rainbow. <i>Applied Physics Letters</i> , 2010 , 96, 211121	3.4	46
66	Drude relaxation rate in grained gold nanoantennas. <i>Nano Letters</i> , 2010 , 10, 916-22	11.5	153
65	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
64	FDTD modeling of realistic semicontinuous metal films. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 100, 159-168	1.9	42
63	Modeling nonlinear effects in 2D optical metamagnetics. <i>Metamaterials</i> , 2010 , 4, 77-82		5
62	Fabrication and optical characterizations of smooth silver-silica nanocomposite films. <i>Laser Physics Letters</i> , 2010 , 7, 677-684	1.5	14
61	Efficient simulation of non-linear effects in 2D optical nanostructures to TM waves. <i>Optics Communications</i> , 2010 , 283, 1628-1632	2	10
60	Translation of nanoantenna hot spots by a metal-dielectric composite superlens. <i>Applied Physics Letters</i> , 2009 , 95, 033114	3.4	16
59	Optical black hole: Broadband omnidirectional light absorber. <i>Applied Physics Letters</i> , 2009 , 95, 041106	3.4	344
58	Anisotropic metamaterials emulated by tapered waveguides: application to optical cloaking. <i>Physical Review Letters</i> , 2009 , 102, 213901	7.4	155
57	Tunable magnetic response of metamaterials. <i>Applied Physics Letters</i> , 2009 , 95, 033115	3.4	130
56	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

55	Yellow-light negative-index metamaterials. <i>Optics Letters</i> , 2009 , 34, 3478-80	3	124
54	Transforming the Field of Physical Optics. <i>Optics and Photonics News</i> , 2009 , 20, 38	1.9	2
53	Simplified model for periodic nanoantennae: linear model and inverse design. <i>Optics Express</i> , 2009 , 17, 11607-17	3.3	9
52	Frequency-domain simulations of a negative-index material with embedded gain. <i>Optics Express</i> , 2009 , 17, 24060-74	3.3	61
51	Materializing a binary hyperlens design. <i>Applied Physics Letters</i> , 2009 , 94, 071102	3.4	23
50	Fabricating Plasmonic Components for Nano- and Meta-Photonics. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009 , 209-221	0.2	
49	Gold nanorod arrays as plasmonic cavity resonators. <i>ACS Nano</i> , 2008 , 2, 2569-76	16.7	122
48	Transformation optics: approaching broadband electromagnetic cloaking. <i>New Journal of Physics</i> , 2008 , 10, 115029	2.9	52
47	Engineering space for light via transformation optics. <i>Optics Letters</i> , 2008 , 33, 43-5	3	149
46	The Ag dielectric function in plasmonic metamaterials. <i>Optics Express</i> , 2008 , 16, 1186-95	3.3	215
45	Designs for optical cloaking with high-order transformations. <i>Optics Express</i> , 2008 , 16, 5444-52	3.3	120
44	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
43	Nanoantenna array-induced fluorescence enhancement and reduced lifetimes. <i>New Journal of Physics</i> , 2008 , 10, 125022	2.9	97
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