

Alexandra Boltasseva

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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.

246 papers	19,870 citations	67 h-index	138 g-index
325 ext. papers	23,810 ext. citations	8.2 avg, IF	7.33 L-index

#	Paper	IF	Citations
246	Planar photonics with metasurfaces. <i>Science</i> , 2013 , 339, 1232009	33.3	1814
245	Alternative plasmonic materials: beyond gold and silver. <i>Advanced Materials</i> , 2013 , 25, 3264-94	24	1395
244	Searching for better plasmonic materials. <i>Laser and Photonics Reviews</i> , 2010 , 4, 795-808	8.3	1346
243	Broadband light bending with plasmonic nanoantennas. <i>Science</i> , 2012 , 335, 427	33.3	1078
242	Materials science. Low-loss plasmonic metamaterials. <i>Science</i> , 2011 , 331, 290-1	33.3	1035
241	Oxides and nitrides as alternative plasmonic materials in the optical range [Invited]. <i>Optical Materials Express</i> , 2011 , 1, 1090	2.6	586
240	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths. <i>Optical Materials Express</i> , 2012 , 2, 478	2.6	468
239	Refractory plasmonics with titanium nitride: broadband metamaterial absorber. <i>Advanced Materials</i> , 2014 , 26, 7959-65	24	432
238	Integrated optical components utilizing long-range surface plasmon polaritons. <i>Journal of Lightwave Technology</i> , 2005 , 23, 413-422	4	324
237	Engineering photonic density of states using metamaterials. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 100, 215-218	1.9	309
236	Applied physics. Refractory plasmonics. <i>Science</i> , 2014 , 344, 263-4	33.3	263
235	Electrically tunable damping of plasmonic resonances with graphene. <i>Nano Letters</i> , 2012 , 12, 5202-6	11.5	260
234	Efficient light bending with isotropic metamaterial Huygens' surfaces. <i>Nano Letters</i> , 2014 , 14, 2491-7	11.5	257
233	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
232	Nanoparticle plasmonics: going practical with transition metal nitrides. <i>Materials Today</i> , 2015 , 18, 227-237	11.8	243
231	Enhanced Nonlinear Refractive Index in Near-Zero Materials. <i>Physical Review Letters</i> , 2016 , 116, 233901	17.4	224
230	Fabrication of optical negative-index metamaterials: Recent advances and outlook. <i>Metamaterials</i> , 2008 , 2, 1-17		212

229	Local heating with lithographically fabricated plasmonic titanium nitride nanoparticles. <i>Nano Letters</i> , 2013 , 13, 6078-83	11.5	199
228	Epsilon-near-zero Al-doped ZnO for ultrafast switching at telecom wavelengths. <i>Optica</i> , 2015 , 2, 616	8.6	190
227	Low-loss plasmon-assisted electro-optic modulator. <i>Nature</i> , 2018 , 556, 483-486	50.4	186
226	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
225	Roadmap on plasmonics. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 043001	1.7	174
224	Reflecting upon the losses in plasmonics and metamaterials. <i>MRS Bulletin</i> , 2012 , 37, 768-779	3.2	172
223	Deep learning for the design of photonic structures. <i>Nature Photonics</i> , 2021 , 15, 77-90	33.9	168
222	Electrical modulation of fano resonance in plasmonic nanostructures using graphene. <i>Nano Letters</i> , 2014 , 14, 78-82	11.5	165
221	Epitaxial superlattices with titanium nitride as a plasmonic component for optical hyperbolic metamaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7546-51	11.5	164
220	Highly Broadband Absorber Using Plasmonic Titanium Carbide (MXene). <i>ACS Photonics</i> , 2018 , 5, 1115-1123	10.3	162
219	A negative permeability material at red light. <i>Optics Express</i> , 2007 , 15, 1076-83	3.3	161
218	Enhanced localized fluorescence in plasmonic nanoantennae. <i>Applied Physics Letters</i> , 2008 , 92, 043101	3.4	156
217	Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO). <i>Nano Letters</i> , 2013 , 13, 2857-63	11.5	153
216	Triangular metal wedges for subwavelength plasmon-polariton guiding at telecom wavelengths. <i>Optics Express</i> , 2008 , 16, 5252-60	3.3	149
215	Broadband Hot-Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride. <i>Advanced Optical Materials</i> , 2017 , 5, 1601031	8.1	147
214	Formation of Bound States in the Continuum in Hybrid Plasmonic-Photonic Systems. <i>Physical Review Letters</i> , 2018 , 121, 253901	7.4	136
213	Improving the radiative decay rate for dye molecules with hyperbolic metamaterials. <i>Optics Express</i> , 2012 , 20, 8100-16	3.3	125
212	Role of epsilon-near-zero substrates in the optical response of plasmonic antennas. <i>Optica</i> , 2016 , 3, 339	8.6	112

211	Plasmon-Enhanced Photoelectrochemical Water Splitting for Efficient Renewable Energy Storage. <i>Advanced Materials</i> , 2019 , 31, e1805513	24	111
210	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
209	Temperature-dependent optical properties of gold thin films. <i>Optical Materials Express</i> , 2016 , 6, 2776	2.6	105
208	Plasmonic nanoantenna arrays for the visible. <i>Metamaterials</i> , 2008 , 2, 45-51		102
207	Long-range surface plasmon polariton nanowire waveguides for device applications. <i>Optics Express</i> , 2006 , 14, 314-9	3.3	102
206	Near-zero-index materials for photonics. <i>Nature Reviews Materials</i> , 2019 , 4, 742-760	73.3	102
205	Transparent conducting oxides for electro-optical plasmonic modulators. <i>Nanophotonics</i> , 2015 , 4, 165-185	18.3	100
204	Towards CMOS-compatible nanophotonics: ultra-compact modulators using alternative plasmonic materials. <i>Optics Express</i> , 2013 , 21, 27326-37	3.3	98
203	Nanoantenna array-induced fluorescence enhancement and reduced lifetimes. <i>New Journal of Physics</i> , 2008 , 10, 125022	2.9	97
202	Semiconductors for plasmonics and metamaterials. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 295-297	2.5	94
201	Examining nanophotonics for integrated hybrid systems: a review of plasmonic interconnects and modulators using traditional and alternative materials [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 121	1.7	92
200	Temperature-Dependent Optical Properties of Plasmonic Titanium Nitride Thin Films. <i>ACS Photonics</i> , 2017 , 4, 1413-1420	6.3	91
199	Material platforms for optical metasurfaces. <i>Nanophotonics</i> , 2018 , 7, 959-987	6.3	90
198	Roadmap on optical metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 093005	1.7	89
197	Demonstration of quadrature-squeezed surface plasmons in a gold waveguide. <i>Physical Review Letters</i> , 2009 , 102, 246802	7.4	88
196	A comparative study of semiconductor-based plasmonic metamaterials. <i>Metamaterials</i> , 2011 , 5, 1-7		87
195	Efficient unidirectional ridge excitation of surface plasmons. <i>Optics Express</i> , 2009 , 17, 7228-32	3.3	85
194	Enhanced Graphene Photodetector with Fractal Metasurface. <i>Nano Letters</i> , 2017 , 17, 57-62	11.5	84

193	Plasmonic components fabrication via nanoimprint. <i>Journal of Optics</i> , 2009 , 11, 114001		84
192	Solar-Powered Plasmon-Enhanced Heterogeneous Catalysis. <i>Nanophotonics</i> , 2016 , 5, 112-133	6.3	84
191	Compact Bragg gratings for long-range surface plasmon polaritons. <i>Journal of Lightwave Technology</i> , 2006 , 24, 912-918	4	82
190	Colloidal Plasmonic Titanium Nitride Nanoparticles: Properties and Applications. <i>Nanophotonics</i> , 2015 , 4, 269-276	6.3	79
189	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
188	Material platforms for integrated quantum photonics. <i>Optical Materials Express</i> , 2017 , 7, 111	2.6	77
187	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
186	Large-Area Ultrabroadband Absorber for Solar Thermophotovoltaics Based on 3D Titanium Nitride Nanopillars. <i>Advanced Optical Materials</i> , 2017 , 5, 1700552	8.1	73
185	Efficiency of local surface plasmon polariton excitation on ridges. <i>Physical Review B</i> , 2008 , 78,	3.3	72
184	Optical Properties of Plasmonic Ultrathin TiN Films. <i>Advanced Optical Materials</i> , 2017 , 5, 1700065	8.1	70
183	Plasmonics on the slope of enlightenment: the role of transition metal nitrides. <i>Faraday Discussions</i> , 2015 , 178, 71-86	3.6	70
182	Roadmap on metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 073002	1.7	69
181	Colors with plasmonic nanostructures: A full-spectrum review. <i>Applied Physics Reviews</i> , 2019 , 6, 041308	17.3	69
180	Plasmonic Resonances in Nanostructured Transparent Conducting Oxide Films. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 4601907-4601907	3.8	68
179	Machine-learning-assisted metasurface design for high-efficiency thermal emitter optimization. <i>Applied Physics Reviews</i> , 2020 , 7, 021407	17.3	67
178	Ultrathin and multicolour optical cavities with embedded metasurfaces. <i>Nature Communications</i> , 2018 , 9, 2673	17.4	66
177	Evolution of Metallicity in Vanadium Dioxide by Creation of Oxygen Vacancies. <i>Physical Review Applied</i> , 2017 , 7,	4.3	65
176	Experimental demonstration of titanium nitride plasmonic interconnects. <i>Optics Express</i> , 2014 , 22, 12238-12247	3.47	65

175	Surface plasmon polariton beam focusing with parabolic nanoparticle chains. <i>Optics Express</i> , 2007 , 15, 6576-82	3.3	65
174	Near-field imaging of light propagation in photonic crystal waveguides: Explicit role of Bloch harmonics. <i>Physical Review B</i> , 2002 , 66,	3.3	65
173	High-Performance Doped Silver Films: Overcoming Fundamental Material Limits for Nanophotonic Applications. <i>Advanced Materials</i> , 2017 , 29, 1605177	24	64
172	Photothermal heating enabled by plasmonic nanostructures for electrokinetic manipulation and sorting of particles. <i>ACS Nano</i> , 2014 , 8, 9035-43	16.7	62
171	Near-field excitation of nanoantenna resonance. <i>Optics Express</i> , 2007 , 15, 13682-8	3.3	60
170	Quasi-coherent thermal emitter based on refractory plasmonic materials. <i>Optical Materials Express</i> , 2015 , 5, 2721	2.6	57
169	Slow-plasmon resonant-nanostrip antennas: Analysis and demonstration. <i>Physical Review B</i> , 2008 , 77,	3.3	57
168	APPLIED PHYSICS. Plasmonics--turning loss into gain. <i>Science</i> , 2016 , 351, 334-5	33.3	56
167	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
166	Bend loss in surface plasmon polariton band-gap structures. <i>Applied Physics Letters</i> , 2001 , 79, 1076-1078	3.4	54
165	Controlling hybrid nonlinearities in transparent conducting oxides via two-colour excitation. <i>Nature Communications</i> , 2017 , 8, 15829	17.4	53
164	Graphene: A Dynamic Platform for Electrical Control of Plasmonic Resonance. <i>Nanophotonics</i> , 2015 , 4, 214-223	6.3	51
163	Controlling the Plasmonic Properties of Ultrathin TiN Films at the Atomic Level. <i>ACS Photonics</i> , 2018 , 5, 2816-2824	6.3	51
162	Optical Time Reversal from Time-Dependent Epsilon-Near-Zero Media. <i>Physical Review Letters</i> , 2018 , 120, 043902	7.4	50
161	Nanolasers Enabled by Metallic Nanoparticles: From Spasers to Random Lasers. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700212	8.3	50
160	Low-loss silicon-on-insulator photonic crystal waveguides. <i>Electronics Letters</i> , 2002 , 38, 274	1.1	50
159	Controlling Random Lasing with Three-Dimensional Plasmonic Nanorod Metamaterials. <i>Nano Letters</i> , 2016 , 16, 2471-7	11.5	50
158	Materials science. All that glitters need not be gold. <i>Science</i> , 2015 , 347, 1308-10	33.3	49

157	Compact Z-add-drop wavelength filters for long-range surface plasmon polaritons. <i>Optics Express</i> , 2005 , 13, 4237-43	3.3	49
156	Directional Couplers Using Long-Range Surface Plasmon Polariton Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006 , 12, 1233-1241	3.8	49
155	Determining plasmonic hot-carrier energy distributions via single-molecule transport measurements. <i>Science</i> , 2020 , 369, 423-426	33.3	46
154	Plasmonic waveguides cladded by hyperbolic metamaterials. <i>Optics Letters</i> , 2014 , 39, 4663-6	3	44
153	PancharatnamBerry 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
152	Overcoming quantum decoherence with plasmonics. <i>Science</i> , 2019 , 364, 532-533	33.3	43
151	Controlling the Polarization State of Light with Plasmonic Metal Oxide Metasurface. <i>ACS Nano</i> , 2016 , 10, 9326-9333	16.7	43
150	Photonic bandgap structures for long-range surface plasmon polaritons. <i>Optics Communications</i> , 2005 , 250, 328-333	2	42
149	Finite-width plasmonic waveguides with hyperbolic multilayer cladding. <i>Optics Express</i> , 2015 , 23, 9681-9	3.3	41
148	TiN/(Al,Sc)N metal/dielectric superlattices and multilayers as hyperbolic metamaterials in the visible spectral range. <i>Physical Review B</i> , 2014 , 90,	3.3	41
147	Computational lens for the near field. <i>Physical Review Letters</i> , 2004 , 92, 163903	7.4	41
146	Effective third-order nonlinearities in metallic refractory titanium nitride thin films. <i>Optical Materials Express</i> , 2015 , 5, 2395	2.6	40
145	Development of epitaxial Al _x Sc _{1-x} N for artificially structured metal/semiconductor superlattice metamaterials. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 251-259	1.3	40
144	Optical Properties of Gallium-Doped Zinc OxideA Low-Loss Plasmonic Material: First-Principles Theory and Experiment. <i>Physical Review X</i> , 2013 , 3,	9.1	40
143	Hybrid Plasmonic Bullseye Antennas for Efficient Photon Collection. <i>ACS Photonics</i> , 2018 , 5, 692-698	6.3	39
142	Empowering plasmonics and metamaterials technology with new material platforms. <i>MRS Bulletin</i> , 2014 , 39, 461-468	3.2	39
141	Temperature-Dependent Optical Properties of Single Crystalline and Polycrystalline Silver Thin Films. <i>ACS Photonics</i> , 2017 , 4, 1083-1091	6.3	38
140	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

139	Electronic and optical properties of ScN and (Sc,Mn)N thin films deposited by reactive DC-magnetron sputtering. <i>Journal of Applied Physics</i> , 2013 , 114, 063519	2.5	38
138	Long-range plasmonic waveguides with hyperbolic cladding. <i>Optics Express</i> , 2015 , 23, 31109-19	3.3	38
137	High-Resolution Large-Ensemble Nanoparticle Trapping with Multifunctional Thermoplasmonic Nanohole Metasurface. <i>ACS Nano</i> , 2018 , 12, 5376-5384	16.7	36
136	Refracting surface plasmon polaritons with nanoparticle arrays. <i>Optics Express</i> , 2008 , 16, 3924-30	3.3	35
135	Theoretical analysis of ridge gratings for long-range surface plasmon polaritons. <i>Physical Review B</i> , 2006 , 73,	3.3	35
134	Lasing Action with Gold Nanorod Hyperbolic Metamaterials. <i>ACS Photonics</i> , 2017 , 4, 674-680	6.3	34
133	Plasmonic metasurfaces for waveguiding and field enhancement. <i>Laser and Photonics Reviews</i> , 2009 , 3, 575-590	8.3	34
132	Adiabatic frequency shifting in epsilon-near-zero materials: the role of group velocity. <i>Optica</i> , 2020 , 7, 226	8.6	32
131	Dynamic Control of Nanocavities with Tunable Metal Oxides. <i>Nano Letters</i> , 2018 , 18, 740-746	11.5	31
130	Plasmon resonance in multilayer graphene nanoribbons. <i>Laser and Photonics Reviews</i> , 2015 , 9, 650-655	8.3	31
129	Channel plasmon polariton propagation in nanoimprinted V-groove waveguides. <i>Optics Letters</i> , 2008 , 33, 2800-2	3	31
128	Ultrafast quantum photonics enabled by coupling plasmonic nanocavities to strongly radiative antennas. <i>Optica</i> , 2020 , 7, 463	8.6	31
127	Plasmonic Titanium Nitride Nanostructures via Nitridation of Nanopatterned Titanium Dioxide. <i>Advanced Optical Materials</i> , 2017 , 5, 1600717	8.1	30
126	Machine learning-assisted global optimization of photonic devices. <i>Nanophotonics</i> , 2020 , 10, 371-383	6.3	30
125	Hybrid plasmonic Au@TiN vertically aligned nanocomposites: a nanoscale platform towards tunable optical sensing. <i>Nanoscale Advances</i> , 2019 , 1, 1045-1054	5.1	28
124	Achieving full-color generation with polarization-tunable perfect light absorption. <i>Optical Materials Express</i> , 2019 , 9, 779	2.6	28
123	Ultrabroadband terahertz conductivity of highly doped ZnO and ITO. <i>Optical Materials Express</i> , 2015 , 5, 566	2.6	27
122	Toward superlensing with metal-dielectric composites and multilayers. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 100, 93-100	1.9	27

121	Surface-plasmon opto-magnetic field enhancement for all-optical magnetization switching. <i>Optical Materials Express</i> , 2017 , 7, 4316	2.6	25
120	V-groove plasmonic waveguides fabricated by nanoimprint lithography. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 2649		25
119	Direct mapping of light propagation in photonic crystal waveguides. <i>Optics Communications</i> , 2002 , 212, 51-55	2	25
118	Degenerate optical nonlinear enhancement in epsilon-near-zero transparent conducting oxides. <i>Optical Materials Express</i> , 2018 , 8, 3392	2.6	25
117	Photonic Spin Hall Effect in Robust Phase Gradient Metasurfaces Utilizing Transition Metal Nitrides. <i>ACS Photonics</i> , 2019 , 6, 99-106	6.3	25
116	Adiabatically tapered hyperbolic metamaterials for dispersion control of high-k waves. <i>Nano Letters</i> , 2015 , 15, 498-505	11.5	24
115	Two-photon mapping of localized field enhancements in thin nanostrip antennas. <i>Optics Express</i> , 2008 , 16, 17302-9	3.3	24
114	Dynamic nanophotonics [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, 95	1.7	24
113	Enhancing the graphene photocurrent using surface plasmons and a p-n junction. <i>Light: Science and Applications</i> , 2020 , 9, 126	16.7	24
112	Negative permittivity of ZnO thin films prepared from aluminum and gallium doped ceramics via pulsed-laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 110, 929-934	2.6	22
111	Compact plasmonic variable optical attenuator. <i>Optics Express</i> , 2008 , 16, 15546-52	3.3	22
110	On-Chip Hybrid Photonic-Plasmonic Waveguides with Ultrathin Titanium Nitride Films. <i>ACS Photonics</i> , 2018 , 5, 4423-4431	6.3	22
109	High-efficiency broadband achromatic metalens for near-IR biological imaging window. <i>Nature Communications</i> , 2021 , 12, 5560	17.4	22
108	Enabling Optical Steganography, Data Storage, and Encryption with Plasmonic Colors. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000343	8.3	22
107	Accelerating light with metasurfaces. <i>Optica</i> , 2018 , 5, 678	8.6	21
106	Localized field enhancements in fractal shaped periodic metal nanostructures. <i>Optics Express</i> , 2007 , 15, 15234-41	3.3	21
105	Solar Thermoplasmonic Nanofurnace for High-Temperature Heterogeneous Catalysis. <i>Nano Letters</i> , 2020 , 20, 3663-3672	11.5	20
104	Synchrotron radiation from an accelerating light pulse. <i>Science</i> , 2018 , 362, 439-442	33.3	20

103	Plasmonic Biomimetic Nanocomposite with Spontaneous Subwavelength Structuring as Broadband Absorbers. <i>ACS Energy Letters</i> , 2018 , 3, 1578-1583	20.1	20
102	Hybrid plasmonic waveguides formed by metal coating of dielectric ridges. <i>Optics Express</i> , 2017 , 25, 12295-12303	3.5	19
101	High-power operation of silica-based Raman fiber amplifier at 2147 nm. <i>Optics Express</i> , 2014 , 22, 28383-9	3.3	19
100	. <i>Proceedings of the IEEE</i> , 2016 , 104, 2270-2287	14.3	19
99	Gyroidal titanium nitride as nonmetallic metamaterial. <i>Optical Materials Express</i> , 2015 , 5, 1316	2.6	18
98	Thin film Ag superlens towards lab-on-a-chip integration. <i>Optics Express</i> , 2009 , 17, 22543-52	3.3	18
97	Suppression of near-field coupling in plasmonic antennas on epsilon-near-zero substrates. <i>Optica</i> , 2018 , 5, 1557	8.6	18
96	Broadband, High-Speed, and Large-Amplitude Dynamic Optical Switching with Yttrium-Doped Cadmium Oxide. <i>Advanced Functional Materials</i> , 2020 , 30, 1908377	15.6	18
95	Broadband Ultrafast Dynamics of Refractory Metals: TiN and ZrN. <i>Advanced Optical Materials</i> , 2020 , 8, 2000652	8.1	18
94	Single and Multi-Mode Directional Lasing from Arrays of Dielectric Nanoresonators. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000411	8.3	17
93	Spatial and Temporal Nanoscale Plasmonic Heating Quantified by Thermoreflectance. <i>Nano Letters</i> , 2019 , 19, 3796-3803	11.5	16
92	TiN@TiO ₂ Core/Shell Nanoparticles as Plasmon-Enhanced Photosensitizers: The Role of Hot Electron Injection. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900376	8.3	16
91	Electron spin contrast of Purcell-enhanced nitrogen-vacancy ensembles in nanodiamonds. <i>Physical Review B</i> , 2017 , 96,	3.3	16
90	Experimental studies of surface plasmon polariton band gap effect. <i>Journal of Microscopy</i> , 2003 , 210, 324-9	1.9	16
89	Gap-plasmon enhanced water splitting with ultrathin hematite films: the role of plasmonic-based light trapping and hot electrons. <i>Faraday Discussions</i> , 2019 , 214, 283-295	3.6	14
88	Optical absorption of hyperbolic metamaterial with stochastic surfaces. <i>Optics Express</i> , 2014 , 22, 8893-9013	3.3	14
87	Electron energy loss spectroscopy of plasmon resonances in titanium nitride thin films. <i>Applied Physics Letters</i> , 2016 , 108, 171107	3.4	14
86	Characterization of nanodiamonds for metamaterial applications. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 105, 191-195	1.9	13

85	Reduced optical losses in refractory plasmonic titanium nitride thin films deposited with molecular beam epitaxy. <i>Optical Materials Express</i> , 2020 , 10, 2679	2.6	13
84	Broad Frequency Shift of Parametric Processes in Epsilon-Near-Zero Time-Varying Media. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1318	2.6	12
83	Nanoimprinted reflecting gratings for long-range surface plasmon polaritons. <i>Microelectronic Engineering</i> , 2007 , 84, 895-898	2.5	12
82	Propagation of long-range surface plasmon polaritons in photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 2027	1.7	12
81	Photonic topological phase transition on demand. <i>Nanophotonics</i> , 2019 , 8, 1349-1356	6.3	11
80	Demonstration of scattering suppression in retardation-based plasmonic nanoantennas. <i>Optics Express</i> , 2010 , 18, 14802-11	3.3	11
79	Nonlinear microscopy of localized field enhancements in fractal shaped periodic metal nanostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 1585	1.7	11
78	Angled physical vapor deposition techniques for non-conformal thin films and three-dimensional structures. <i>MRS Communications</i> , 2016 , 6, 17-22	2.7	11
77	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
76	Rapid Classification of Quantum Sources Enabled by Machine Learning. <i>Advanced Quantum Technologies</i> , 2020 , 3, 2000067	4.3	10
75	Machine Learning for Integrated Quantum Photonics. <i>ACS Photonics</i> , 2021 , 8, 34-46	6.3	9
74	Alternative Plasmonic Materials: Alternative Plasmonic Materials: Beyond Gold and Silver (Adv. Mater. 24/2013). <i>Advanced Materials</i> , 2013 , 25, 3258-3258	24	8
73	Optical Properties of MXenes 2019 , 327-346		7
72	Alternative Plasmonic Materials. <i>Handbook of Surface Science</i> , 2014 , 4, 189-221		7
71	Theoretical analysis and experimental demonstration of resonant light scattering from metal nanostrips on quartz. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 121	1.7	7
70	Surface plasmon polariton waveguiding in random surface nanostructures. <i>Journal of Microscopy</i> , 2003 , 209, 209-13	1.9	7
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