

Alexandra Boltasseva

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.

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	Understanding all-optical switching at the epsilon-near-zero point: a tutorial review. <i>Applied Physics B: Lasers and Optics</i> , 2022 , 128, 1	1.9	1
245	Optimizing Startshot Lightsail Design: A Generative Network-Based Approach. <i>ACS Photonics</i> , 2022 , 9, 190-196	6.3	2
244	The true love of materials expressed: editorial. <i>Optical Materials Express</i> , 2021 , 11, 4093	2.6	
243	A tribute to Mark Stockman. <i>Nanophotonics</i> , 2021 , 10, 3569-3585	6.3	
242	Enhancing Photoelectrochemical Energy Storage by Large-Area CdS-Coated Nickel Nanoantenna Arrays. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11367-11376	6.1	2
241	We value your Opinion: editorial. <i>Optical Materials Express</i> , 2021 , 11, 3779	2.6	1
240	Creating Quantum Emitters in Hexagonal Boron Nitride Deterministically on Chip-Compatible Substrates. <i>Nano Letters</i> , 2021 , 21, 8182-8189	11.5	6
239	Celebrating ten years: editorial. <i>Optical Materials Express</i> , 2021 , 11, 1566	2.6	
238	Deep learning for the design of photonic structures. <i>Nature Photonics</i> , 2021 , 15, 77-90	33.9	168
237	Extraordinarily large permittivity modulation in zinc oxide for dynamic nanophotonics. <i>Materials Today</i> , 2021 , 43, 27-36	21.8	3
236	Lithography-Free Plasmonic Color Printing with Femtosecond Laser on Semicontinuous Silver Films. <i>ACS Photonics</i> , 2021 , 8, 521-530	6.3	6
235	Machine Learning for Integrated Quantum Photonics. <i>ACS Photonics</i> , 2021 , 8, 34-46	6.3	9
234	Single and Multi-Mode Directional Lasing from Arrays of Dielectric Nanoresonators. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000411	8.3	17
233	High-harmonic generation in metallic titanium nitride. <i>Nature Communications</i> , 2021 , 12, 4981	17.4	4
232	Visible photon generation via four-wave mixing in near-infrared near-zero-index thin films. <i>Optics Letters</i> , 2021 , 46, 5433-5436	3	0
231	High-efficiency broadband achromatic metalens for near-IR biological imaging window. <i>Nature Communications</i> , 2021 , 12, 5560	17.4	22
230	Enabling Optical Steganography, Data Storage, and Encryption with Plasmonic Colors. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000343	8.3	22

229	Room-temperature single-photon emitters in silicon nitride. <i>Science Advances</i> , 2021 , 7, eabj0627	14.3	2
228	Machine learning framework for quantum sampling of highly constrained, continuous optimization problems. <i>Applied Physics Reviews</i> , 2021 , 8, 041418	17.3	3
227	Machine-learning-assisted metasurface design for high-efficiency thermal emitter optimization. <i>Applied Physics Reviews</i> , 2020 , 7, 021407	17.3	67
226	Determining plasmonic hot-carrier energy distributions via single-molecule transport measurements. <i>Science</i> , 2020 , 369, 423-426	33.3	46
225	Transdimensional material platforms for tunable metasurface design. <i>MRS Bulletin</i> , 2020 , 45, 188-195	3.2	6
224	Broad Frequency Shift of Parametric Processes in Epsilon-Near-Zero Time-Varying Media. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1318	2.6	12
223	Remote Sensing of High Temperatures with Refractory, Direct-Contact Optical Metacavity. <i>ACS Photonics</i> , 2020 , 7, 472-479	6.3	6
222	Dynamical Control of Broadband Coherent Absorption in ENZ Films. <i>Micromachines</i> , 2020 , 11,	3.3	4
221	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
220	Non-fading Plasmonic Color Printing on Semicontinuous Metal Films with Protective Atomic Layer Deposition 2020 ,		1
219	Hybrid magneto photonic material structure for plasmon assisted magnetic switching. <i>Optical Materials Express</i> , 2020 , 10, 3107	2.6	1
218	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
217	Adiabatic frequency shifting in epsilon-near-zero materials: the role of group velocity. <i>Optica</i> , 2020 , 7, 226	8.6	32
216	Ultrafast quantum photonics enabled by coupling plasmonic nanocavities to strongly radiative antennas. <i>Optica</i> , 2020 , 7, 463	8.6	31
215	Machine learning-assisted global optimization of photonic devices. <i>Nanophotonics</i> , 2020 , 10, 371-383	6.3	30
214	Dynamically controlled random lasing with colloidal titanium carbide MXene. <i>Optical Materials Express</i> , 2020 , 10, 2304	2.6	1
213	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
212	On-Chip Single-Layer Integration of Diamond Spins with Microwave and Plasmonic Channels. <i>ACS Photonics</i> , 2020 , 7, 2018-2026	6.3	3

211	Enhancing the graphene photocurrent using surface plasmons and a p-n junction. <i>Light: Science and Applications</i> , 2020 , 9, 126	16.7	24
210	Broadband Ultrafast Dynamics of Refractory Metals: TiN and ZrN. <i>Advanced Optical Materials</i> , 2020 , 8, 2000652	8.1	18
209	Chip-Compatible Quantum Plasmonic Launcher. <i>Advanced Optical Materials</i> , 2020 , 8, 2000889	8.1	6
208	Rapid Classification of Quantum Sources Enabled by Machine Learning. <i>Advanced Quantum Technologies</i> , 2020 , 3, 2000067	4.3	10
207	Solar Thermoplasmonic Nanofurnace for High-Temperature Heterogeneous Catalysis. <i>Nano Letters</i> , 2020 , 20, 3663-3672	11.5	20
206	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
205	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
204	Spatial and Temporal Nanoscale Plasmonic Heating Quantified by Thermoreflectance. <i>Nano Letters</i> , 2019 , 19, 3796-3803	11.5	16
203	Overcoming quantum decoherence with plasmonics. <i>Science</i> , 2019 , 364, 532-533	33.3	43
202	Photonic topological phase transition on demand. <i>Nanophotonics</i> , 2019 , 8, 1349-1356	6.3	11
201	Plasmon-Enhanced Photoelectrochemical Water Splitting for Efficient Renewable Energy Storage. <i>Advanced Materials</i> , 2019 , 31, e1805513	24	111
200	Tuning Topology of Photonic Systems with Transparent Conducting Oxides. <i>ACS Photonics</i> , 2019 , 6, 1922-1930	26.3	6
199	Roadmap on metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 073002	1.7	69
198	Strontium Niobate for Near-Infrared Plasmonics. <i>Advanced Optical Materials</i> , 2019 , 7, 1900401	8.1	
197	Colors with plasmonic nanostructures: A full-spectrum review. <i>Applied Physics Reviews</i> , 2019 , 6, 041308	17.3	69
196	Optical Properties of MXenes 2019 , 327-346		7
195	Laser Color Printing on Semicontinuous Silver Films 2019 ,		1
194	Achieving full-color generation with polarization-tunable perfect light absorption. <i>Optical Materials Express</i> , 2019 , 9, 779	2.6	28

193	Laser-induced color printing on semicontinuous silver films: red, green and blue. <i>Optical Materials Express</i> , 2019 , 9, 1528	2.6	7
192	Feature issue introduction: Metamaterials, Photonic Crystals and Plasmonics. <i>Optical Materials Express</i> , 2019 , 9, 2400	2.6	1
191	Nonlinearities and carrier dynamics in refractory plasmonic TiN thin films. <i>Optical Materials Express</i> , 2019 , 9, 3911	2.6	7
190	Near-zero-index materials for photonics. <i>Nature Reviews Materials</i> , 2019 , 4, 742-760	73.3	102
189	Photonic Spin Hall Effect in Robust Phase Gradient Metasurfaces Utilizing Transition Metal Nitrides. <i>ACS Photonics</i> , 2019 , 6, 99-106	6.3	25
188	Roadmap on plasmonics. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 043001	1.7	174
187	Low-loss plasmon-assisted electro-optic modulator. <i>Nature</i> , 2018 , 556, 483-486	50.4	186
186	Optical Time Reversal from Time-Dependent Epsilon-Near-Zero Media. <i>Physical Review Letters</i> , 2018 , 120, 043902	7.4	50
185	Dynamic Control of Nanocavities with Tunable Metal Oxides. <i>Nano Letters</i> , 2018 , 18, 740-746	11.5	31
184	Highly Broadband Absorber Using Plasmonic Titanium Carbide (MXene). <i>ACS Photonics</i> , 2018 , 5, 1115-1123	10.3	162
183	Hybrid Plasmonic Bullseye Antennas for Efficient Photon Collection. <i>ACS Photonics</i> , 2018 , 5, 692-698	6.3	39
182	New Journal prize to recognize the best paper from an emerging researcher: editorial. <i>Optical Materials Express</i> , 2018 , 8, 1695	2.6	2
181	Accelerating light with metasurfaces. <i>Optica</i> , 2018 , 5, 678	8.6	21
180	Ultrathin and multicolour optical cavities with embedded metasurfaces. <i>Nature Communications</i> , 2018 , 9, 2673	17.4	66
179	Degenerate optical nonlinear enhancement in epsilon-near-zero transparent conducting oxides. <i>Optical Materials Express</i> , 2018 , 8, 3392	2.6	25
178	Suppression of near-field coupling in plasmonic antennas on epsilon-near-zero substrates. <i>Optica</i> , 2018 , 5, 1557	8.6	18
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	Synchrotron radiation from an accelerating light pulse. <i>Science</i> , 2018 , 362, 439-442	33.3	20

175	On-Chip Hybrid Photonic-Plasmonic Waveguides with Ultrathin Titanium Nitride Films. <i>ACS Photonics</i> , 2018 , 5, 4423-4431	6.3	22
174	Material platforms for optical metasurfaces. <i>Nanophotonics</i> , 2018 , 7, 959-987	6.3	90
173	High-Resolution Large-Ensemble Nanoparticle Trapping with Multifunctional Thermoplasmonic Nanohole Metasurface. <i>ACS Nano</i> , 2018 , 12, 5376-5384	16.7	36
172	Plasmonic Biomimetic Nanocomposite with Spontaneous Subwavelength Structuring as Broadband Absorbers. <i>ACS Energy Letters</i> , 2018 , 3, 1578-1583	20.1	20
171	Controlling the Plasmonic Properties of Ultrathin TiN Films at the Atomic Level. <i>ACS Photonics</i> , 2018 , 5, 2816-2824	6.3	51
170	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
169	Plasmonic Titanium Nitride Nanostructures via Nitridation of Nanopatterned Titanium Dioxide. <i>Advanced Optical Materials</i> , 2017 , 5, 1600717	8.1	30
168	Lasing Action with Gold Nanorod Hyperbolic Metamaterials. <i>ACS Photonics</i> , 2017 , 4, 674-680	6.3	34
167	Titanium nitride based hybrid plasmonic-photonic waveguides for on-chip plasmonic interconnects 2017 ,		1
166	Broadband Hot-Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride. <i>Advanced Optical Materials</i> , 2017 , 5, 1601031	8.1	147
165	Temperature-Dependent Optical Properties of Single Crystalline and Polycrystalline Silver Thin Films. <i>ACS Photonics</i> , 2017 , 4, 1083-1091	6.3	38
164	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
163	Temperature-Dependent Optical Properties of Plasmonic Titanium Nitride Thin Films. <i>ACS Photonics</i> , 2017 , 4, 1413-1420	6.3	91
162	Optical Properties of Plasmonic Ultrathin TiN Films. <i>Advanced Optical Materials</i> , 2017 , 5, 1700065	8.1	70
161	Controlling hybrid nonlinearities in transparent conducting oxides via two-colour excitation. <i>Nature Communications</i> , 2017 , 8, 15829	17.4	53
160	Evolution of Metallicity in Vanadium Dioxide by Creation of Oxygen Vacancies. <i>Physical Review Applied</i> , 2017 , 7,	4.3	65
159	High-Performance Doped Silver Films: Overcoming Fundamental Material Limits for Nanophotonic Applications. <i>Advanced Materials</i> , 2017 , 29, 1605177	24	64
158	Enhanced Graphene Photodetector with Fractal Metasurface. <i>Nano Letters</i> , 2017 , 17, 57-62	11.5	84

157	Patterned multilayer metamaterial for fast and efficient photon collection from dipolar emitters. <i>Optics Letters</i> , 2017 , 42, 3968-3971	3	2
156	Large-Area Ultrabroadband Absorber for Solar Thermophotovoltaics Based on 3D Titanium Nitride Nanopillars. <i>Advanced Optical Materials</i> , 2017 , 5, 1700552	8.1	73
155	Electron spin contrast of Purcell-enhanced nitrogen-vacancy ensembles in nanodiamonds. <i>Physical Review B</i> , 2017 , 96,	3.3	16
154	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
153	Nanolasers Enabled by Metallic Nanoparticles: From Spasers to Random Lasers. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700212	8.3	50
152	Thermophotovoltaics: Large-Area Ultrabroadband Absorber for Solar Thermophotovoltaics Based on 3D Titanium Nitride Nanopillars (Advanced Optical Materials 22/2017). <i>Advanced Optical Materials</i> , 2017 , 5,	8.1	3
151	Ultra-thin plasmonic metal nitrides: Tailoring optical properties to photonic applications 2017 ,		1
150	Optical Properties of Ultrathin Plasmonic TiN Films 2017 ,		3
149	Hybrid plasmonic waveguides formed by metal coating of dielectric ridges. <i>Optics Express</i> , 2017 , 25, 12295-12302	3.5	103
148	Material platforms for integrated quantum photonics. <i>Optical Materials Express</i> , 2017 , 7, 111	2.6	77
147	Surface-plasmon opto-magnetic field enhancement for all-optical magnetization switching. <i>Optical Materials Express</i> , 2017 , 7, 4316	2.6	25
146	Feature issue introduction: material platforms and experimental approaches for quantum nanophotonics. <i>Optical Materials Express</i> , 2017 , 7, 651	2.6	
145	Active Metamaterials Based on Monolayer Titanium Carbide MXene for Random Lasing 2017 ,		2
144	Broadband hot electron generation for solar energy conversion with plasmonic titanium nitride 2017 ,		1
143	Dynamic nanophotonics [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, 95	1.7	24
142	Temperature-dependent optical properties of gold thin films. <i>Optical Materials Express</i> , 2016 , 6, 2776	2.6	105
141	Enhanced Nonlinear Refractive Index in Near-Zero Materials. <i>Physical Review Letters</i> , 2016 , 116, 233901	7.4	224
140	APPLIED PHYSICS. Plasmonics--turning loss into gain. <i>Science</i> , 2016 , 351, 334-5	33.3	56

139	Role of epsilon-near-zero substrates in the optical response of plasmonic antennas. <i>Optica</i> , 2016 , 3, 339-8.6	112
138	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
137	Lasing Action in Gold Nanorod Hyperbolic Metamaterials 2016 ,	4
136	Transient Nonlinear Refraction Measurements of Titanium Nitride Thin Films 2016 ,	1
135	Quiet revolutions in optical materials enable breakthrough technologies: editorial. <i>Optical Materials Express</i> , 2016 , 6, 288	2.6 2
134	Implementation of Metasurface Based Nano-Cavities 2016 ,	1
133	Electron energy loss spectroscopy of plasmon resonances in titanium nitride thin films. <i>Applied Physics Letters</i> , 2016 , 108, 171107	3.4 14
132	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
131	Controlling Random Lasing with Three-Dimensional Plasmonic Nanorod Metamaterials. <i>Nano Letters</i> , 2016 , 16, 2471-7	11.5 50
130	Solar-Powered Plasmon-Enhanced Heterogeneous Catalysis. <i>Nanophotonics</i> , 2016 , 5, 112-133	6.3 84
129	Controlling the Polarization State of Light with Plasmonic Metal Oxide Metasurface. <i>ACS Nano</i> , 2016 , 10, 9326-9333	16.7 43
128	. <i>Proceedings of the IEEE</i> , 2016 , 104, 2270-2287	14.3 19
127	Roadmap on optical metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 093005	1.7 89
126	Nanoparticle plasmonics: going practical with transition metal nitrides. <i>Materials Today</i> , 2015 , 18, 227-237	11.8 243
125	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
124	Finite-width plasmonic waveguides with hyperbolic multilayer cladding. <i>Optics Express</i> , 2015 , 23, 9681-9	3.3 41
123	Ultrabroadband terahertz conductivity of highly doped ZnO and ITO. <i>Optical Materials Express</i> , 2015 , 5, 566	2.6 27
122	Gyroidal titanium nitride as nonmetallic metamaterial. <i>Optical Materials Express</i> , 2015 , 5, 1316	2.6 18

121	Transparent conducting oxides for electro-optical plasmonic modulators. <i>Nanophotonics</i> , 2015 , 4, 165-185	6.3	100
120	Graphene: A Dynamic Platform for Electrical Control of Plasmonic Resonance. <i>Nanophotonics</i> , 2015 , 4, 214-223	6.3	51
119	Color Hologram Generation Using a Pancharatnam-Berry Phase Manipulating Metasurface 2015 ,		1
118	Epsilon-near-zero Al-doped ZnO for ultrafast switching at telecom wavelengths. <i>Optica</i> , 2015 , 2, 616	8.6	190
117	Effective third-order nonlinearities in metallic refractory titanium nitride thin films. <i>Optical Materials Express</i> , 2015 , 5, 2395	2.6	40
116	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
115	Adiabatically tapered hyperbolic metamaterials for dispersion control of high-k waves. <i>Nano Letters</i> , 2015 , 15, 498-505	11.5	24
114	Plasmonics on the slope of enlightenment: the role of transition metal nitrides. <i>Faraday Discussions</i> , 2015 , 178, 71-86	3.6	70
113	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
112	Colloidal Plasmonic Titanium Nitride Nanoparticles: Properties and Applications. <i>Nanophotonics</i> , 2015 , 4, 269-276	6.3	79
111	Long-range plasmonic waveguides with hyperbolic cladding. <i>Optics Express</i> , 2015 , 23, 31109-19	3.3	38
110	Plasmon resonance in multilayer graphene nanoribbons. <i>Laser and Photonics Reviews</i> , 2015 , 9, 650-655	8.3	31
109	Plasmonics feature issue: publisher's note. <i>Optical Materials Express</i> , 2015 , 5, 2978	2.6	1
108	Effective third-order nonlinearities in metallic refractory titanium nitride thin films: publisher's note. <i>Optical Materials Express</i> , 2015 , 5, 2587	2.6	1
107	Materials science. All that glitters need not be gold. <i>Science</i> , 2015 , 347, 1308-10	33.3	49
106	Feature issue introduction: plasmonics. <i>Optical Materials Express</i> , 2015 , 5, 2698	2.6	
105	Quasi-coherent thermal emitter based on refractory plasmonic materials. <i>Optical Materials Express</i> , 2015 , 5, 2721	2.6	57
104	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

103	Applied physics. Refractory plasmonics. <i>Science</i> , 2014 , 344, 263-4	33.3	263
102	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
101	Electrical modulation of fano resonance in plasmonic nanostructures using graphene. <i>Nano Letters</i> , 2014 , 14, 78-82	11.5	165
100	Photothermal heating enabled by plasmonic nanostructures for electrokinetic manipulation and sorting of particles. <i>ACS Nano</i> , 2014 , 8, 9035-43	16.7	62
99	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
98	Plasmonic waveguides cladded by hyperbolic metamaterials. <i>Optics Letters</i> , 2014 , 39, 4663-6	3	44
97	Efficient light bending with isotropic metamaterial Huygens' surfaces. <i>Nano Letters</i> , 2014 , 14, 2491-7	11.5	257
96	Alternative Plasmonic Materials. <i>Handbook of Surface Science</i> , 2014 , 4, 189-221		7
95	Empowering plasmonics and metamaterials technology with new material platforms. <i>MRS Bulletin</i> , 2014 , 39, 461-468	3.2	39
94	Titanium Nitride as a Refractory Plasmonic Material for High Temperature Applications 2014 ,		1
93	CMOS Compatible Ultra-Compact Modulator 2014 ,		1
92	Optical absorption of hyperbolic metamaterial with stochastic surfaces. <i>Optics Express</i> , 2014 , 22, 8893-9013	9.3	14
91	Experimental demonstration of titanium nitride plasmonic interconnects. <i>Optics Express</i> , 2014 , 22, 12238-47	9.7	65
90	Refractory plasmonics with titanium nitride: broadband metamaterial absorber. <i>Advanced Materials</i> , 2014 , 26, 7959-65	24	432
89	Plasmonic modulator using CMOS-compatible material platform 2014 ,		1
88	High-power operation of silica-based Raman fiber amplifier at 2147 nm. <i>Optics Express</i> , 2014 , 22, 28383-93	9.3	19
87	Alternative Plasmonic Materials: Alternative Plasmonic Materials: Beyond Gold and Silver (Adv. Mater. 24/2013). <i>Advanced Materials</i> , 2013 , 25, 3258-3258	24	8
86	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

85	Planar photonics with metasurfaces. <i>Science</i> , 2013 , 339, 1232009	33.3	1814
84	Optical Properties of Gallium-Doped Zinc Oxide: A Low-Loss Plasmonic Material: First-Principles Theory and Experiment. <i>Physical Review X</i> , 2013 , 3,	9.1	40
83	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
82	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
81	Alternative plasmonic materials: beyond gold and silver. <i>Advanced Materials</i> , 2013 , 25, 3264-94	24	1395
80	Local heating with lithographically fabricated plasmonic titanium nitride nanoparticles. <i>Nano Letters</i> , 2013 , 13, 6078-83	11.5	199
79	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths [erratum]. <i>Optical Materials Express</i> , 2013 , 3, 1658	2.6	5
78	Towards CMOS-compatible nanophotonics: ultra-compact modulators using alternative plasmonic materials. <i>Optics Express</i> , 2013 , 21, 27326-37	3.3	98
77	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
76	Nanostructured Transparent Conductive Oxide Films for Plasmonic Applications 2013 ,		2
75	Reflecting upon the losses in plasmonics and metamaterials. <i>MRS Bulletin</i> , 2012 , 37, 768-779	3.2	172
74	Electrically tunable damping of plasmonic resonances with graphene. <i>Nano Letters</i> , 2012 , 12, 5202-6	11.5	260
73	Modern Trends in Metamaterial Applications. <i>Advances in OptoElectronics</i> , 2012 , 2012, 1-2	0.5	1
72	Metal Nitrides for Plasmonic Applications 2012 ,		2
71	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
70	Broadband light bending with plasmonic nanoantennas. <i>Science</i> , 2012 , 335, 427	33.3	1078
69	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
68	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths. <i>Optical Materials Express</i> , 2012 , 2, 478	2.6	468

67	Improving the radiative decay rate for dye molecules with hyperbolic metamaterials. <i>Optics Express</i> , 2012 , 20, 8100-16	3.3	125
66	Electrically Tunable Plasmonic Resonances with Graphene 2012 ,		3
65	Nitrides as alternative materials for localized surface plasmon applications 2012 ,		2
64	Oxides and nitrides as alternative plasmonic materials in the optical range [Invited]. <i>Optical Materials Express</i> , 2011 , 1, 1090	2.6	586
63	Materials science. Low-loss plasmonic metamaterials. <i>Science</i> , 2011 , 331, 290-1	33.3	1035
62	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
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