

Federico Capasso

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.

239
papers

33,115
citations

75
h-index

181
g-index

324
ext. papers

41,434
ext. citations

9.9
avg, IF

7.79
L-index

#	Paper	IF	Citations
239	A quantum cascade laser-pumped molecular laser tunable over 1 THz. <i>APL Photonics</i> , 2022 , 7, 016107	5.2	1
238	Metasurface-based bijective illumination collection imaging provides high-resolution tomography in three dimensions. <i>Nature Photonics</i> , 2022 , 16, 203-211	33.9	3
237	Multi-line lasing in the broadly tunable ammonia quantum cascade laser pumped molecular laser. <i>Applied Physics Letters</i> , 2022 , 120, 081108	3.4	0
236	Imaging polarimetry through metasurface polarization gratings.. <i>Optics Express</i> , 2022 , 30, 9389-9412	3.3	4
235	Adjoint-optimized metasurfaces for compact mode-division multiplexing.. <i>ACS Photonics</i> , 2022 , 9, 929-937	3.3	1
234	Laser Frequency Combs with Fast Gain Recovery: Physics and Applications. <i>Laser and Photonics Reviews</i> , 2022 , 16, 2100403	8.3	1
233	Tunable structured light with flat optics.. <i>Science</i> , 2022 , 376, eabi6860	33.3	21
232	Diamond mirrors for high-power continuous-wave lasers.. <i>Nature Communications</i> , 2022 , 13, 2610	17.4	0
231	Inverse design enables large-scale high-performance meta-optics reshaping virtual reality.. <i>Nature Communications</i> , 2022 , 13, 2409	17.4	11
230	Generalized polarization transformations with metasurfaces. <i>Optics Express</i> , 2021 , 29, 39065-39078	3.3	0
229	Slow light nanocoatings for ultrashort pulse compression. <i>Nature Communications</i> , 2021 , 12, 6518	17.4	1
228	Introducing Berry phase gradients along the optical path via propagation-dependent polarization transformations. <i>Nanophotonics</i> , 2021 ,	6.3	6
227	Global and localised temporal structures in driven ring quantum cascade lasers. <i>Chaos, Solitons and Fractals</i> , 2021 , 153, 111537	9.3	1
226	Electro-optic spatial light modulator from an engineered organic layer. <i>Nature Communications</i> , 2021 , 12, 5928	17.4	6
225	A High Aspect Ratio Inverse-Designed Holey Metalens. <i>Nano Letters</i> , 2021 , 21, 8642-8649	11.5	7
224	Structuring total angular momentum of light along the propagation direction with polarization-controlled meta-optics. <i>Nature Communications</i> , 2021 , 12, 6249	17.4	13
223	Will flat optics appear in everyday life anytime soon?. <i>Applied Physics Letters</i> , 2021 , 118, 100503	3.4	20

222	Reply to: Reconsidering metasurface lasers. <i>Nature Photonics</i> , 2021 , 15, 339-340	33.9	0
221	Unifying Frequency Combs in Active and Passive Cavities: Temporal Solitons in Externally Driven Ring Lasers. <i>Physical Review Letters</i> , 2021 , 126, 173903	7.4	11
220	Multifunctional wide-angle optics and lasing based on supercell metasurfaces. <i>Nature Communications</i> , 2021 , 12, 3787	17.4	21
219	Metasurface optics for on-demand polarization transformations along the optical path. <i>Nature Photonics</i> , 2021 , 15, 287-296	33.9	74
218	Engineering phase and polarization singularity sheets. <i>Nature Communications</i> , 2021 , 12, 4190	17.4	9
217	Jones matrix holography with metasurfaces. <i>Science Advances</i> , 2021 , 7,	14.3	21
216	Spectrally resolved linewidth enhancement factor of a semiconductor frequency comb. <i>Optica</i> , 2021 , 8, 1227	8.6	4
215	Defect-engineered ring laser harmonic frequency combs. <i>Optica</i> , 2021 , 8, 1277	8.6	4
214	Coherent Raman scattering imaging with a near-infrared achromatic metalens. <i>APL Photonics</i> , 2021 , 6, 096107	5.2	1
213	Meta-optics achieves RGB-achromatic focusing for virtual reality. <i>Science Advances</i> , 2021 , 7,	14.3	42
212	Continuous angle-tunable birefringence with freeform metasurfaces for arbitrary polarization conversion. <i>Science Advances</i> , 2020 , 6, eaba3367	14.3	56
211	Frequency combs induced by phase turbulence. <i>Nature</i> , 2020 , 582, 360-364	50.4	36
210	Flat optics with dispersion-engineered metasurfaces. <i>Nature Reviews Materials</i> , 2020 , 5, 604-620	73.3	156
209	Ultrahigh Angular Selectivity of Disorder-Engineered Metasurfaces. <i>ACS Photonics</i> , 2020 , 7, 991-1000	6.3	7
208	In-Phase and Anti-Phase Synchronization in a Laser Frequency Comb. <i>Physical Review Letters</i> , 2020 , 124, 023901	7.4	29
207	Hot-Carrier Extraction in Nanowire-Nanoantenna Photovoltaic Devices. <i>Nano Letters</i> , 2020 , 20, 4064-4072	21.5	10
206	High-purity orbital angular momentum states from a visible metasurface laser. <i>Nature Photonics</i> , 2020 , 14, 498-503	33.9	114
205	Purity and efficiency of hybrid orbital angular momentum-generating metasurfaces. <i>Journal of Nanophotonics</i> , 2020 , 14, 1	1.1	7

204	Shaping harmonic frequency combs in ring injection lasers by defect engineering 2020 ,		1
203	Soliton dynamics of ring quantum cascade lasers with injected signal. <i>Nanophotonics</i> , 2020 , 10, 195-207	6.3	4
202	High Q-factor resonators and nanoantennas based on phonon polaritons in van der Waals materials 2020 ,		1
201	40-3: Invited Paper: A Large RGB-achromatic Metalens for Virtual/Augmented Reality Applications. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 575-578		0.5
200	Improving the light collection efficiency of silicon photomultipliers through the use of metalenses. <i>Journal of Instrumentation</i> , 2020 , 15, P11021-P11021	1	3
199	Enhancing the modal purity of orbital angular momentum photons. <i>APL Photonics</i> , 2020 , 5, 070802	5.2	22
198	Mode-locked short pulses from an 8 th wavelength semiconductor laser. <i>Nature Communications</i> , 2020 , 11, 5788	17.4	14
197	Optical properties of metasurfaces infiltrated with liquid crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 20390-20396	11.5	37
196	Remote structuring of near-field landscapes. <i>Science</i> , 2020 , 369, 436-440	33.3	9
195	Polariton nanophotonics using phase-change materials. <i>Nature Communications</i> , 2019 , 10, 4487	17.4	53
194	A broadband achromatic polarization-insensitive metalens consisting of anisotropic nanostructures. <i>Nature Communications</i> , 2019 , 10, 355	17.4	167
193	Frequency-Modulated Combs Obey a Variational Principle. <i>Physical Review Letters</i> , 2019 , 122, 253901	7.4	15
192	Excitation of Strong Localized Surface Plasmon Resonances in Highly Metallic Titanium Nitride Nano-Antennas for Stable Performance at Elevated Temperatures. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3444-3452	5.6	11
191	Imaging Performance of Polarization-Insensitive Metalenses. <i>ACS Photonics</i> , 2019 , 6, 1493-1499	6.3	34
190	Radio frequency transmitter based on a laser frequency comb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 9181-9185	11.5	15
189	Versatile total angular momentum generation using cascaded J-plates. <i>Optics Express</i> , 2019 , 27, 7469-7484	3.4	24
188	Light and Microwaves in Laser Frequency Combs: An Interplay of Spatiotemporal Phenomena. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-12	3.8	8
187	Engineering phonon polaritons in van der Waals heterostructures to enhance in-plane optical anisotropy. <i>Science Advances</i> , 2019 , 5, eaau7171	14.3	42

186	Low Voltage Imaging of Quantum Materials Imaging the Surface Plasmon Polaritons in Chalcogenides. <i>Microscopy and Microanalysis</i> , 2019 , 25, 460-461	0.5	
185	Matrix Fourier optics enables a compact full-Stokes polarization camera. <i>Science</i> , 2019 , 365,	33.3	226
184	Using the Belinfante momentum to retrieve the polarization state of light inside waveguides. <i>Scientific Reports</i> , 2019 , 9, 14879	4.9	3
183	Widely tunable compact terahertz gas lasers. <i>Science</i> , 2019 , 366, 856-860	33.3	33
182	All-Glass, Large Metalens at Visible Wavelength Using Deep-Ultraviolet Projection Lithography. <i>Nano Letters</i> , 2019 , 19, 8673-8682	11.5	82
181	Dielectric multi-momentum meta-transformer in the visible. <i>Nature Communications</i> , 2019 , 10, 4789	17.4	50
180	Compact single-shot metalens depth sensors inspired by eyes of jumping spiders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 22959-22965	11.5	47
179	Concepts in quantum state tomography and classical implementation with intense light: a tutorial. <i>Advances in Optics and Photonics</i> , 2019 , 11, 67	16.7	51
178	Large-area, single material metalens in the visible: An approach for mass-production using conventional semiconductor manufacturing techniques 2019 ,		2
177	Reconfigurable mid-infrared optical elements using phase change materials 2019 ,		1
176	Mitigating Chromatic Dispersion with Hybrid Optical Metasurfaces. <i>Advanced Materials</i> , 2019 , 31, e1805555	11.5	25
175	Compact Aberration-Corrected Spectrometers in the Visible Using Dispersion-Tailored Metasurfaces. <i>Advanced Optical Materials</i> , 2019 , 7, 1801144	8.1	27
174	Dynamic metasurface lens based on MEMS technology. <i>APL Photonics</i> , 2018 , 3, 021302	5.2	84
173	Single-Layer Metasurface with Controllable Multiwavelength Functions. <i>Nano Letters</i> , 2018 , 18, 2420-2427	11.5	119
172	Giant intrinsic chiro-optical activity in planar dielectric nanostructures. <i>Light: Science and Applications</i> , 2018 , 7, 17158	16.7	141
171	Adaptive metalenses with simultaneous electrical control of focal length, astigmatism, and shift. <i>Science Advances</i> , 2018 , 4, eaap9957	14.3	181
170	The future and promise of flat optics: a personal perspective. <i>Nanophotonics</i> , 2018 , 7, 953-957	6.3	67
169	Topology-Optimized Multilayered Metaoptics. <i>Physical Review Applied</i> , 2018 , 9,	4.3	89

168	Watt-level widely tunable single-mode emission by injection-locking of a multimode Fabry-Perot quantum cascade laser. <i>Applied Physics Letters</i> , 2018 , 112, 061109	3.4	5
167	Guided Modes of Anisotropic van der Waals Materials Investigated by near-Field Scanning Optical Microscopy. <i>ACS Photonics</i> , 2018 , 5, 1196-1201	6.3	10
166	Mid-infrared two-photon absorption in an extended-wavelength InGaAs photodetector. <i>Applied Physics Letters</i> , 2018 , 112, 041106	3.4	19
165	A broadband achromatic metalens for focusing and imaging in the visible. <i>Nature Nanotechnology</i> , 2018 , 13, 220-226	28.7	708
164	Nano-optic endoscope for high-resolution optical coherence tomography. <i>Nature Photonics</i> , 2018 , 12, 540-547	33.9	145
163	Large area metalenses: design, characterization, and mass manufacturing. <i>Optics Express</i> , 2018 , 26, 15733-1585	35.85	95
162	The harmonic state of quantum cascade lasers: origin, control, and prospective applications [Invited]. <i>Optics Express</i> , 2018 , 26, 9464-9483	3.3	19
161	Time-dependent population inversion gratings in laser frequency combs. <i>Optica</i> , 2018 , 5, 475	8.6	21
160	Selective excitation and imaging of ultraslow phonon polaritons in thin hexagonal boron nitride crystals. <i>Light: Science and Applications</i> , 2018 , 7, 27	16.7	51
159	Radiative Thermal Runaway Due to Negative-Differential Thermal Emission Across a Solid-Solid Phase Transition. <i>Physical Review Applied</i> , 2018 , 10,	4.3	16
158	Widely tunable harmonic frequency comb in a quantum cascade laser. <i>Applied Physics Letters</i> , 2018 , 113, 031104	3.4	14
157	High-efficiency chiral meta-lens. <i>Scientific Reports</i> , 2018 , 8, 7240	4.9	23
156	Polarization state generation and measurement with a single metasurface. <i>Optics Express</i> , 2018 , 26, 21455-21478	35.37	37
155	Ultra-confined mid-infrared resonant phonon polaritons in van der Waals nanostructures. <i>Science Advances</i> , 2018 , 4, eaat7189	14.3	68
154	Inverse design of large-area metasurfaces. <i>Optics Express</i> , 2018 , 26, 33732-33747	3.3	97
153	Broadband Achromatic Metasurface-Refractive Optics. <i>Nano Letters</i> , 2018 , 18, 7801-7808	11.5	79
152	Solid-immersion metalenses for infrared focal plane arrays. <i>Applied Physics Letters</i> , 2018 , 113, 111104	3.4	38
151	Three-Dimensional Measurement of the Helicity-Dependent Forces on a Mie Particle. <i>Physical Review Letters</i> , 2018 , 120, 223901	7.4	19

150	Achromatic Metalens over 60 nm Bandwidth in the Visible and Metalens with Reverse Chromatic Dispersion. <i>Nano Letters</i> , 2017 , 17, 1819-1824	11.5	287
149	Ultra-compact visible chiral spectrometer with meta-lenses. <i>APL Photonics</i> , 2017 , 2, 036103	5.2	63
148	Optical Nanomaterials: Light Manipulation in Metallic Nanowire Networks with Functional Connectivity (Advanced Optical Materials 5/2017). <i>Advanced Optical Materials</i> , 2017 , 5,	8.1	1
147	Watt-Level Continuous-Wave Emission from a Bifunctional Quantum Cascade Laser/Detector. <i>ACS Photonics</i> , 2017 , 4, 1225-1231	6.3	28
146	Scalable, ultra-resistant structural colors based on network metamaterials. <i>Light: Science and Applications</i> , 2017 , 6, e16233	16.7	55
145	Generation of wavelength-independent subwavelength Bessel beams using metasurfaces. <i>Light: Science and Applications</i> , 2017 , 6, e16259	16.7	127
144	Observation of Nanoscale Refractive Index Contrast via Photoinduced Force Microscopy. <i>ACS Photonics</i> , 2017 , 4, 846-851	6.3	22
143	Immersion Meta-Lenses at Visible Wavelengths for Nanoscale Imaging. <i>Nano Letters</i> , 2017 , 17, 3188-3194	11.5	101
142	Metasurface Polarization Optics: Independent Phase Control of Arbitrary Orthogonal States of Polarization. <i>Physical Review Letters</i> , 2017 , 118, 113901	7.4	654
141	Light Manipulation in Metallic Nanowire Networks with Functional Connectivity. <i>Advanced Optical Materials</i> , 2017 , 5, 1600580	8.1	10
140	High-Operating-Temperature Direct Ink Writing of Mesoscale Eutectic Architectures. <i>Advanced Materials</i> , 2017 , 29, 1604778	24	28
139	Elliptical orbits of microspheres in an evanescent field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11087-11091	11.5	10
138	Arbitrary spin-to-orbital angular momentum conversion of light. <i>Science</i> , 2017 , 358, 896-901	33.3	504
137	Metalenses: Versatile multifunctional photonic components. <i>Science</i> , 2017 , 358,	33.3	431
136	Self-starting harmonic frequency comb generation in a quantum cascade laser. <i>Nature Photonics</i> , 2017 , 11, 789-792	33.9	48
135	Mechanical Detection and Imaging of Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. <i>ACS Nano</i> , 2017 , 11, 8741-8746	16.7	34
134	Epsilon-Near-Zero Substrate Engineering for Ultrathin-Film Perfect Absorbers. <i>Physical Review Applied</i> , 2017 , 8,	4.3	65
133	Meta-Lens Doublet in the Visible Region. <i>Nano Letters</i> , 2017 , 17, 4902-4907	11.5	202

132	Visible Wavelength Planar Metalenses Based on Titanium Dioxide. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 43-58	3.8	40
131	Performance characteristics of 4-port in-plane and out-of-plane in-line metasurface polarimeters. <i>Optics Express</i> , 2017 , 25, 28697	3.3	14
130	Recent advances in planar optics: from plasmonic to dielectric metasurfaces. <i>Optica</i> , 2017 , 4, 139	8.6	561
129	Spin-to-orbital angular momentum conversion in dielectric metasurfaces. <i>Optics Express</i> , 2017 , 25, 377-393	3.3	116
128	Designing large, high-efficiency, high-numerical-aperture, transmissive meta-lenses for visible light. <i>Optics Express</i> , 2016 , 24, 5110-5124	3.3	74
127	Subfemtonewton Force Spectroscopy at the Thermal Limit in Liquids. <i>Physical Review Letters</i> , 2016 , 116, 228001	7.4	17
126	Measurement of bound states in the continuum by a detector embedded in a photonic crystal. <i>Light: Science and Applications</i> , 2016 , 5, e16147	16.7	57
125	Polarization-Insensitive Metalenses at Visible Wavelengths. <i>Nano Letters</i> , 2016 , 16, 7229-7234	11.5	338
124	Multispectral Chiral Imaging with a Metalens. <i>Nano Letters</i> , 2016 , 16, 4595-600	11.5	242
123	Metalenses at visible wavelengths: Diffraction-limited focusing and subwavelength resolution imaging. <i>Science</i> , 2016 , 352, 1190-4	33.3	1638
122	Designed Quasi-1D Potential Structures Realized in Compositionally Graded InAs _{1-x} P _x Nanowires. <i>Nano Letters</i> , 2016 , 16, 1017-21	11.5	7
121	Ultracompact metasurface in-line polarimeter. <i>Optica</i> , 2016 , 3, 42	8.6	130
120	Active Optical Metasurfaces Based on Defect-Engineered Phase-Transition Materials. <i>Nano Letters</i> , 2016 , 16, 1050-5	11.5	147
119	Single-mode instability in standing-wave lasers: The quantum cascade laser as a self-pumped parametric oscillator. <i>Physical Review A</i> , 2016 , 94,	2.6	49
118	Broadband and chiral binary dielectric meta-holograms. <i>Science Advances</i> , 2016 , 2, e1501258	14.3	214
117	Super-Dispersive Off-Axis Meta-Lenses for Compact High Resolution Spectroscopy. <i>Nano Letters</i> , 2016 , 16, 3732-7	11.5	131
116	Optical absorbers based on strong interference in ultra-thin films. <i>Laser and Photonics Reviews</i> , 2016 , 10, 735-749	8.3	132
115	Broadband high-efficiency dielectric metasurfaces for the visible spectrum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10473-8	11.5	313

114	High efficiency near diffraction-limited mid-infrared flat lenses based on metasurface reflectarrays. <i>Optics Express</i> , 2016 , 24, 18024-34	3.3	90
113	Holographic optical metasurfaces: a review of current progress. <i>Reports on Progress in Physics</i> , 2015 , 78, 024401	14.4	202
112	. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2344-2358	4	77
111	Controlled steering of Cherenkov surface plasmon wakes with a one-dimensional metamaterial. <i>Nature Nanotechnology</i> , 2015 , 10, 804-9	28.7	94
110	Achromatic Metasurface Lens at Telecommunication Wavelengths. <i>Nano Letters</i> , 2015 , 15, 5358-62	11.5	290
109	Holographic metalens for switchable focusing of surface plasmons. <i>Nano Letters</i> , 2015 , 15, 3585-9	11.5	47
108	Lateral chirality-sorting optical forces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13190-4	11.5	129
107	Broadband Multifunctional Efficient Meta-Gratings Based on Dielectric Waveguide Phase Shifters. <i>Nano Letters</i> , 2015 , 15, 6709-15	11.5	72
106	Classical and fluctuation-induced electromagnetic interactions in micron-scale systems: designer bonding, antibonding, and Casimir forces. <i>Annalen Der Physik</i> , 2015 , 527, 45-80	2.6	31
105	Multi-wavelength quantum cascade laser arrays. <i>Laser and Photonics Reviews</i> , 2015 , 9, 452-477	8.3	37
104	Near-Field Imaging of Phased Array Metasurfaces. <i>Nano Letters</i> , 2015 , 15, 3851-8	11.5	48
103	Achromatic metasurfaces by dispersive phase compensation 2015 ,		2
102	Applied optics. Multiwavelength achromatic metasurfaces by dispersive phase compensation. <i>Science</i> , 2015 , 347, 1342-5	33.3	667
101	Flat optics with designer metasurfaces. <i>Nature Materials</i> , 2014 , 13, 139-50	27	3095
100	Instability-induced pattern formation of photoactivated functional polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17017-22	11.5	28
99	Study of photocurrent generation in InP nanowire-based p+i-n+ photodetectors. <i>Nano Research</i> , 2014 , 7, 544-552	10	35
98	Absolute position total internal reflection microscopy with an optical tweezer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E5609-15	11.5	29
97	Demonstration of a quick process to achieve buried heterostructure quantum cascade laser leading to high power and wall plug efficiency. <i>Optical Engineering</i> , 2014 , 53, 087104	1.1	8

96	Electrically pumped semiconductor laser with monolithic control of circular polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E5623-32	11.5	21
95	Mode switching in a multi-wavelength distributed feedback quantum cascade laser using an external micro-cavity. <i>Applied Physics Letters</i> , 2014 , 104, 051102	3.4	3
94	Optical bistability with a repulsive optical force in coupled silicon photonic crystal membranes. <i>Applied Physics Letters</i> , 2013 , 103, 021102	3.4	13
93	Single-mode tapered quantum cascade lasers. <i>Applied Physics Letters</i> , 2013 , 102, 181102	3.4	14
92	Measurement of the ultrafast temporal response of a plasmonic antenna. <i>Annalen Der Physik</i> , 2013 , 525, L6-L11	2.6	8
91	Investigation of Tunable Single-Mode Quantum Cascade Lasers Via Surface-Acoustic-Wave Modulation. <i>IEEE Journal of Quantum Electronics</i> , 2013 , 49, 1053-1061	2	2
90	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 4700423-4700423	3.8	201
89	Tetrahedral colloidal clusters from random parking of bidisperse spheres. <i>Physical Review Letters</i> , 2013 , 110, 148303	7.4	68
88	High-power low-divergence tapered quantum cascade lasers with plasmonic collimators. <i>Applied Physics Letters</i> , 2013 , 102, 191114	3.4	13
87	Controlling Light Propagation with Interfacial Phase Discontinuities 2013 , 171-217		
86	High-brightness tapered quantum cascade lasers. <i>Applied Physics Letters</i> , 2013 , 102, 053503	3.4	21
85	External ring-cavity quantum cascade lasers. <i>Applied Physics Letters</i> , 2013 , 102, 141105	3.4	15
84	Aberrations of flat lenses and aplanatic metasurfaces. <i>Optics Express</i> , 2013 , 21, 31530-9	3.3	101
83	Generation of picosecond pulses and frequency combs in actively mode locked external ring cavity quantum cascade lasers. <i>Applied Physics Letters</i> , 2013 , 103, 231102	3.4	32
82	Beam engineering of quantum cascade lasers. <i>Laser and Photonics Reviews</i> , 2012 , 6, 24-46	8.3	43
81	Limiting Factors to the Temperature Performance of THz Quantum Cascade Lasers Based on the Resonant-Phonon Depopulation Scheme. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2012 , 2, 83-92	3.4	53
80	Sensitivity enhancement of off-axis ICOS using wavelength modulation. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 108, 353-359	1.9	21
79	Modeling nanoscale V-shaped antennas for the design of optical phased arrays. <i>Physical Review B</i> , 2012 , 85,	3.3	81

78	Master-oscillator power-amplifier quantum cascade laser array. <i>Applied Physics Letters</i> , 2012 , 101, 26111-14	3.4	25
77	Aberration-free ultrathin flat lenses and axicons at telecom wavelengths based on plasmonic metasurfaces. <i>Nano Letters</i> , 2012 , 12, 4932-6	11.5	1177
76	Ultra-thin plasmonic optical vortex plate based on phase discontinuities. <i>Applied Physics Letters</i> , 2012 , 100, 013101	3.4	384
75	Ultra-thin perfect absorber employing a tunable phase change material. <i>Applied Physics Letters</i> , 2012 , 101, 221101	3.4	418
74	Control of buckling in large micromembranes using engineered support structures. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 065028	2	34
73	Out-of-plane reflection and refraction of light by anisotropic optical antenna metasurfaces with phase discontinuities. <i>Nano Letters</i> , 2012 , 12, 1702-6	11.5	388
72	A broadband, background-free quarter-wave plate based on plasmonic metasurfaces. <i>Nano Letters</i> , 2012 , 12, 6328-33	11.5	839
71	Double-waveguide quantum cascade laser. <i>Applied Physics Letters</i> , 2012 , 100, 033502	3.4	4
70	Giant birefringence in optical antenna arrays with widely tailorable optical anisotropy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12364-12368	11.5	139
69	Nonlinear optical interactions of laser modes in quantum cascade lasers. <i>Journal of Modern Optics</i> , 2011 , 58, 727-742	1.1	11
68	Designing evanescent optical interactions to control the expression of Casimir forces in optomechanical structures. <i>Applied Physics Letters</i> , 2011 , 98, 194105	3.4	18
67	The Casimir effect in microstructured geometries. <i>Nature Photonics</i> , 2011 , 5, 211-221	33.9	317
66	Light propagation with phase discontinuities: generalized laws of reflection and refraction. <i>Science</i> , 2011 , 334, 333-7	33.3	4912
65	Ultrafast Rabi flopping and coherent pulse propagation in a quantum cascade laser. <i>Nature Photonics</i> , 2010 , 4, 706-710	33.9	43
64	GaAs/Al _{0.15} Ga _{0.85} As terahertz quantum cascade lasers with double-phonon resonant depopulation operating up to 172 K. <i>Applied Physics Letters</i> , 2010 , 97, 131111	3.4	27
63	Whispering-gallery mode resonators for highly unidirectional laser action. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 22407-12	11.5	151
62	REPULSIVE CASIMIR AND VAN DER WAALS FORCES: FROM MEASUREMENTS TO FUTURE TECHNOLOGIES. <i>International Journal of Modern Physics A</i> , 2010 , 25, 2252-2259	1.2	12
61	Polarity-controlled visible/infrared electroluminescence in Si-nanocrystal/Si light-emitting devices. <i>Applied Physics Letters</i> , 2010 , 97, 071112	3.4	15

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