

Federico Capasso

List of Publications by Citations

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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	Light propagation with phase discontinuities: generalized laws of reflection and refraction. <i>Science</i> , 2011 , 334, 333-7	33.3	4912
238	Quantum cascade laser. <i>Science</i> , 1994 , 264, 553-6	33.3	3580
237	Flat optics with designer metasurfaces. <i>Nature Materials</i> , 2014 , 13, 139-50	27	3095
236	Metalenses at visible wavelengths: Diffraction-limited focusing and subwavelength resolution imaging. <i>Science</i> , 2016 , 352, 1190-4	33.3	1638
235	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
234	A broadband, background-free quarter-wave plate based on plasmonic metasurfaces. <i>Nano Letters</i> , 2012 , 12, 6328-33	11.5	839
233	A broadband achromatic metalens for focusing and imaging in the visible. <i>Nature Nanotechnology</i> , 2018 , 13, 220-226	28.7	708
232	Applied optics. Multiwavelength achromatic metasurfaces by dispersive phase compensation. <i>Science</i> , 2015 , 347, 1342-5	33.3	667
231	Metasurface Polarization Optics: Independent Phase Control of Arbitrary Orthogonal States of Polarization. <i>Physical Review Letters</i> , 2017 , 118, 113901	7.4	654
230	High-power directional emission from microlasers with chaotic resonators. <i>Science</i> , 1998 , 280, 1556-64	33.3	574
229	Recent advances in planar optics: from plasmonic to dielectric metasurfaces. <i>Optica</i> , 2017 , 4, 139	8.6	561
228	Arbitrary spin-to-orbital angular momentum conversion of light. <i>Science</i> , 2017 , 358, 896-901	33.3	504
227	Metalenses: Versatile multifunctional photonic components. <i>Science</i> , 2017 , 358,	33.3	431
226	Ultra-thin perfect absorber employing a tunable phase change material. <i>Applied Physics Letters</i> , 2012 , 101, 221101	3.4	418
225	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
224	Ultra-thin plasmonic optical vortex plate based on phase discontinuities. <i>Applied Physics Letters</i> , 2012 , 100, 013101	3.4	384
223	Polarization-Insensitive Metalenses at Visible Wavelengths. <i>Nano Letters</i> , 2016 , 16, 7229-7234	11.5	338

222	The Casimir effect in microstructured geometries. <i>Nature Photonics</i> , 2011 , 5, 211-221	33.9	317
221	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
220	Achromatic Metasurface Lens at Telecommunication Wavelengths. <i>Nano Letters</i> , 2015 , 15, 5358-62	11.5	290
219	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
218	Multispectral Chiral Imaging with a Metalens. <i>Nano Letters</i> , 2016 , 16, 4595-600	11.5	242
217	Matrix Fourier optics enables a compact full-Stokes polarization camera. <i>Science</i> , 2019 , 365,	33.3	226
216	Quantum cascade lasers: ultrahigh-speed operation, optical wireless communication, narrow linewidth, and far-infrared emission. <i>IEEE Journal of Quantum Electronics</i> , 2002 , 38, 511-532	2	216
215	Broadband and chiral binary dielectric meta-holograms. <i>Science Advances</i> , 2016 , 2, e1501258	14.3	214
214	Terahertz quantum-cascade-laser source based on intracavity difference-frequency generation. <i>Nature Photonics</i> , 2007 , 1, 288-292	33.9	204
213	Holographic optical metasurfaces: a review of current progress. <i>Reports on Progress in Physics</i> , 2015 , 78, 024401	14.4	202
212	Meta-Lens Doublet in the Visible Region. <i>Nano Letters</i> , 2017 , 17, 4902-4907	11.5	202
211	Laser action in nanowires: Observation of the transition from amplified spontaneous emission to laser oscillation. <i>Applied Physics Letters</i> , 2008 , 93, 051101	3.4	202
210	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 4700423-4700423	3.8	201
209	Casimir Forces and Quantum Electrodynamical Torques: Physics and Nanomechanics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 400-414	3.8	192
208	Adaptive metalenses with simultaneous electrical control of focal length, astigmatism, and shift. <i>Science Advances</i> , 2018 , 4, eaap9957	14.3	181
207	Small-divergence semiconductor lasers by plasmonic collimation. <i>Nature Photonics</i> , 2008 , 2, 564-570	33.9	179
206	A broadband achromatic polarization-insensitive metalens consisting of anisotropic nanostructures. <i>Nature Communications</i> , 2019 , 10, 355	17.4	167
205	Widely tunable mode-hop free external cavity quantum cascade lasers for high resolution spectroscopy and chemical sensing. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 92, 305-311	1.9	163

204	Flat optics with dispersion-engineered metasurfaces. <i>Nature Reviews Materials</i> , 2020 , 5, 604-620	73.3	156
203	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
202	Active Optical Metasurfaces Based on Defect-Engineered Phase-Transition Materials. <i>Nano Letters</i> , 2016 , 16, 1050-5	11.5	147
201	Room temperature terahertz quantum cascade laser source based on intracavity difference-frequency generation. <i>Applied Physics Letters</i> , 2008 , 92, 201101	3.4	146
200	Nano-optic endoscope for high-resolution optical coherence tomography. <i>Nature Photonics</i> , 2018 , 12, 540-547	33.9	145
199	Giant intrinsic chiro-optical activity in planar dielectric nanostructures. <i>Light: Science and Applications</i> , 2018 , 7, 17158	16.7	141
198	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
197	3 W continuous-wave room temperature single-facet emission from quantum cascade lasers based on nonresonant extraction design approach. <i>Applied Physics Letters</i> , 2009 , 95, 141113	3.4	139
196	Multimode regimes in quantum cascade lasers: From coherent instabilities to spatial hole burning. <i>Physical Review A</i> , 2008 , 77,	2.6	139
195	1.6W high wall plug efficiency, continuous-wave room temperature quantum cascade laser emitting at 4.6 μ m. <i>Applied Physics Letters</i> , 2008 , 92, 111110	3.4	133
194	Optical absorbers based on strong interference in ultra-thin films. <i>Laser and Photonics Reviews</i> , 2016 , 10, 735-749	8.3	132
193	Super-Dispersive Off-Axis Meta-Lenses for Compact High Resolution Spectroscopy. <i>Nano Letters</i> , 2016 , 16, 3732-7	11.5	131
192	Ultracompact metasurface in-line polarimeter. <i>Optica</i> , 2016 , 3, 42	8.6	130
191	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
190	Generation of wavelength-independent subwavelength Bessel beams using metasurfaces. <i>Light: Science and Applications</i> , 2017 , 6, e16259	16.7	127
189	Single-Layer Metasurface with Controllable Multiwavelength Functions. <i>Nano Letters</i> , 2018 , 18, 2420-2427	11.5	119
188	Mode-locked pulses from mid-infrared quantum cascade lasers. <i>Optics Express</i> , 2009 , 17, 12929-43	3.3	117
187	Spin-to-orbital angular momentum conversion in dielectric metasurfaces. <i>Optics Express</i> , 2017 , 25, 377-393	3.3	116

186	High-purity orbital angular momentum states from a visible metasurface laser. <i>Nature Photonics</i> , 2020 , 14, 498-503	33.9	114
185	Torque on birefringent plates induced by quantum fluctuations. <i>Physical Review A</i> , 2005 , 71,	2.6	107
184	Immersion Meta-Lenses at Visible Wavelengths for Nanoscale Imaging. <i>Nano Letters</i> , 2017 , 17, 3188-3194	11.5	101
183	Aberrations of flat lenses and aplanatic metasurfaces. <i>Optics Express</i> , 2013 , 21, 31530-9	3.3	101
182	Inverse design of large-area metasurfaces. <i>Optics Express</i> , 2018 , 26, 33732-33747	3.3	97
181	Large area metalenses: design, characterization, and mass manufacturing. <i>Optics Express</i> , 2018 , 26, 15733-1585	15.85	95
180	Controlled steering of Cherenkov surface plasmon wakes with a one-dimensional metamaterial. <i>Nature Nanotechnology</i> , 2015 , 10, 804-9	28.7	94
179	High-Temperature Operation of Terahertz Quantum Cascade Laser Sources. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009 , 15, 952-967	3.8	93
178	Plasmonic Laser Antennas and Related Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008 , 14, 1448-1461	3.8	93
177	Kilohertz linewidth from frequency-stabilized mid-infrared quantum cascade lasers. <i>Optics Letters</i> , 1999 , 24, 1844-6	3	93
176	High efficiency near diffraction-limited mid-infrared flat lenses based on metasurface reflectarrays. <i>Optics Express</i> , 2016 , 24, 18024-34	3.3	90
175	Topology-Optimized Multilayered Metaoptics. <i>Physical Review Applied</i> , 2018 , 9,	4.3	89
174	Dynamic metasurface lens based on MEMS technology. <i>APL Photonics</i> , 2018 , 3, 021302	5.2	84
173	Optical nanorod antennas as dispersive one-dimensional Fabry-Pérot resonators for surface plasmons. <i>Applied Physics Letters</i> , 2009 , 95, 201101	3.4	84
172	All-Glass, Large Metalens at Visible Wavelength Using Deep-Ultraviolet Projection Lithography. <i>Nano Letters</i> , 2019 , 19, 8673-8682	11.5	82
171	Modeling nanoscale V-shaped antennas for the design of optical phased arrays. <i>Physical Review B</i> , 2012 , 85,	3.3	81
170	Directional emission and universal far-field behavior from semiconductor lasers with limaçon-shaped microcavity. <i>Applied Physics Letters</i> , 2009 , 94, 251101	3.4	81
169	Exciton-related electroluminescence from ZnO nanowire light-emitting diodes. <i>Applied Physics Letters</i> , 2009 , 94, 241120	3.4	80

168	DFB Quantum Cascade Laser Arrays. <i>IEEE Journal of Quantum Electronics</i> , 2009 , 45, 554-565	2	80
167	Coherent instabilities in a semiconductor laser with fast gain recovery. <i>Physical Review A</i> , 2007 , 75,	2.6	79
166	Broadband Achromatic Metasurface-Refractive Optics. <i>Nano Letters</i> , 2018 , 18, 7801-7808	11.5	79
165	. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2344-2358	4	77
164	Designing large, high-efficiency, high-numerical-aperture, transmissive meta-lenses for visible light. <i>Optics Express</i> , 2016 , 24, 5110-5124	3.3	74
163	Metasurface optics for on-demand polarization transformations along the optical path. <i>Nature Photonics</i> , 2021 , 15, 287-296	33.9	74
162	Broadband Multifunctional Efficient Meta-Gratings Based on Dielectric Waveguide Phase Shifters. <i>Nano Letters</i> , 2015 , 15, 6709-15	11.5	72
161	Quantum cascade disk lasers. <i>Applied Physics Letters</i> , 1996 , 69, 2456-2458	3.4	72
160	Ultra-confined mid-infrared resonant phonon polaritons in van der Waals nanostructures. <i>Science Advances</i> , 2018 , 4, eaat7189	14.3	68
159	Tetrahedral colloidal clusters from random parking of bidisperse spheres. <i>Physical Review Letters</i> , 2013 , 110, 148303	7.4	68
158	The future and promise of flat optics: a personal perspective. <i>Nanophotonics</i> , 2018 , 7, 953-957	6.3	67
157	Epsilon-Near-Zero Substrate Engineering for Ultrathin-Film Perfect Absorbers. <i>Physical Review Applied</i> , 2017 , 8,	4.3	65
156	Ultra-compact visible chiral spectrometer with meta-lenses. <i>APL Photonics</i> , 2017 , 2, 036103	5.2	63
155	Optimized second-harmonic generation in quantum cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , 2003 , 39, 1345-1355	2	61
154	Gain recovery dynamics and photon-driven transport in quantum cascade lasers. <i>Physical Review Letters</i> , 2008 , 100, 167401	7.4	59
153	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
152	Polarization state generation and measurement with a single metasurface. <i>Optics Express</i> , 2018 , 26, 21455-21478	15.5	57
151	Continuous angle-tunable birefringence with freeform metasurfaces for arbitrary polarization conversion. <i>Science Advances</i> , 2020 , 6, eaba3367	14.3	56

150	High performance quantum cascade lasers based on three-phonon-resonance design. <i>Applied Physics Letters</i> , 2009 , 94, 011103	3.4	56
149	Scalable, ultra-resistant structural colors based on network metamaterials. <i>Light: Science and Applications</i> , 2017 , 6, e16233	16.7	55
148	High power thermoelectrically cooled and uncooled quantum cascade lasers with optimized reflectivity facet coatings. <i>Applied Physics Letters</i> , 2009 , 95, 151112	3.4	54
147	Polariton nanophotonics using phase-change materials. <i>Nature Communications</i> , 2019 , 10, 4487	17.4	53
146	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
145	Layered superconductors as negative-refractive-index metamaterials. <i>Physical Review B</i> , 2010 , 81,	3.3	52
144	Semiconductor lasers with integrated plasmonic polarizers. <i>Applied Physics Letters</i> , 2009 , 94, 151101	3.4	52
143	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
142	Broadband Distributed-Feedback Quantum Cascade Laser Array Operating From 8.0 to 9.8 μm . <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 914-916	2.2	51
141	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
140	Dielectric multi-momentum meta-transformer in the visible. <i>Nature Communications</i> , 2019 , 10, 4789	17.4	50
139	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
138	Self-starting harmonic frequency comb generation in a quantum cascade laser. <i>Nature Photonics</i> , 2017 , 11, 789-792	33.9	48
137	Near-Field Imaging of Phased Array Metasurfaces. <i>Nano Letters</i> , 2015 , 15, 3851-8	11.5	48
136	Holographic metalens for switchable focusing of surface plasmons. <i>Nano Letters</i> , 2015 , 15, 3585-9	11.5	47
135	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
134	Frequency modulation spectroscopy by means of quantum-cascade lasers. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 85, 223-229	1.9	44
133	Beam engineering of quantum cascade lasers. <i>Laser and Photonics Reviews</i> , 2012 , 6, 24-46	8.3	43

132	Ultrafast Rabi flopping and coherent pulse propagation in a quantum cascade laser. <i>Nature Photonics</i> , 2010 , 4, 706-710	33.9	43
131	Engineering phonon polaritons in van der Waals heterostructures to enhance in-plane optical anisotropy. <i>Science Advances</i> , 2019 , 5, eaau7171	14.3	42
130	Theoretical and experimental study of optical gain and linewidth enhancement factor of type-I quantum-cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 1663-1674	2	42
129	Meta-optics achieves RGB-achromatic focusing for virtual reality. <i>Science Advances</i> , 2021 , 7,	14.3	42
128	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
127	Small divergence edge-emitting semiconductor lasers with two-dimensional plasmonic collimators. <i>Applied Physics Letters</i> , 2008 , 93, 181101	3.4	39
126	Quantum electrodynamics of accelerated atoms in free space and in cavities. <i>Physical Review A</i> , 2006 , 74,	2.6	38
125	Solid-immersion metalenses for infrared focal plane arrays. <i>Applied Physics Letters</i> , 2018 , 113, 111104	3.4	38
124	Multi-wavelength quantum cascade laser arrays. <i>Laser and Photonics Reviews</i> , 2015 , 9, 452-477	8.3	37
123	High-Performance Quantum Cascade Lasers Grown by Metal-Organic Vapor Phase Epitaxy and Their Applications to Trace Gas Sensing. <i>Journal of Lightwave Technology</i> , 2008 , 26, 3534-3555	4	37
122	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
121	Frequency combs induced by phase turbulence. <i>Nature</i> , 2020 , 582, 360-364	50.4	36
120	Study of photocurrent generation in InP nanowire-based p+i-n+ photodetectors. <i>Nano Research</i> , 2014 , 7, 544-552	10	35
119	Imaging Performance of Polarization-Insensitive Metalenses. <i>ACS Photonics</i> , 2019 , 6, 1493-1499	6.3	34
118	Mechanical Detection and Imaging of Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. <i>ACS Nano</i> , 2017 , 11, 8741-8746	16.7	34
117	Control of buckling in large micromembranes using engineered support structures. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 065028	2	34
116	Widely tunable compact terahertz gas lasers. <i>Science</i> , 2019 , 366, 856-860	33.3	33
115	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

114	Low-threshold continuous-wave operation of quantum-cascade lasers grown by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , 2004 , 85, 5842-5844	3.4	32
113	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
112	In-Phase and Anti-Phase Synchronization in a Laser Frequency Comb. <i>Physical Review Letters</i> , 2020 , 124, 023901	7.4	29
111	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
110	Watt-Level Continuous-Wave Emission from a Bifunctional Quantum Cascade Laser/Detector. <i>ACS Photonics</i> , 2017 , 4, 1225-1231	6.3	28
109	High-Operating-Temperature Direct Ink Writing of Mesoscale Eutectic Architectures. <i>Advanced Materials</i> , 2017 , 29, 1604778	24	28
108	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
107	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
106	Compact Aberration-Corrected Spectrometers in the Visible Using Dispersion-Tailored Metasurfaces. <i>Advanced Optical Materials</i> , 2019 , 7, 1801144	8.1	27
105	Master-oscillator power-amplifier quantum cascade laser array. <i>Applied Physics Letters</i> , 2012 , 101, 261117	3.4	25
104	Mitigating Chromatic Dispersion with Hybrid Optical Metasurfaces. <i>Advanced Materials</i> , 2019 , 31, e180555	5.5	25
103	Versatile total angular momentum generation using cascaded J-plates. <i>Optics Express</i> , 2019 , 27, 7469-7484	3.3	24
102	Design and fabrication of photonic crystal quantum cascade lasers for optofluidics. <i>Optics Express</i> , 2007 , 15, 4499-514	3.3	24
101	Optimization of broadband quantum cascade lasers for continuous wave operation. <i>Applied Physics Letters</i> , 2003 , 83, 24-26	3.4	24
100	High-efficiency chiral meta-lens. <i>Scientific Reports</i> , 2018 , 8, 7240	4.9	23
99	Observation of Nanoscale Refractive Index Contrast via Photoinduced Force Microscopy. <i>ACS Photonics</i> , 2017 , 4, 846-851	6.3	22
98	Femtosecond dynamics of resonant tunneling and superlattice relaxation in quantum cascade lasers. <i>Applied Physics Letters</i> , 2008 , 92, 122114	3.4	22
97	Terahertz quantum cascade lasers in a magnetic field. <i>Applied Physics Letters</i> , 2003 , 83, 3873-3875	3.4	22

96	Enhancing the modal purity of orbital angular momentum photons. <i>APL Photonics</i> , 2020 , 5, 070802	5.2	22
95	Time-dependent population inversion gratings in laser frequency combs. <i>Optica</i> , 2018 , 5, 475	8.6	21
94	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
93	Sensitivity enhancement of off-axis ICOS using wavelength modulation. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 108, 353-359	1.9	21
92	High-brightness tapered quantum cascade lasers. <i>Applied Physics Letters</i> , 2013 , 102, 053503	3.4	21
91	Scully et al. Reply:. <i>Physical Review Letters</i> , 2004 , 93,	7.4	21
90	Multifunctional wide-angle optics and lasing based on supercell metasurfaces. <i>Nature Communications</i> , 2021 , 12, 3787	17.4	21
89	Jones matrix holography with metasurfaces. <i>Science Advances</i> , 2021 , 7,	14.3	21
88	Tunable structured light with flat optics.. <i>Science</i> , 2022 , 376, eabi6860	33.3	21
87	Will flat optics appear in everyday life anytime soon?. <i>Applied Physics Letters</i> , 2021 , 118, 100503	3.4	20
86	Mid-infrared two-photon absorption in an extended-wavelength InGaAs photodetector. <i>Applied Physics Letters</i> , 2018 , 112, 041106	3.4	19
85	The harmonic state of quantum cascade lasers: origin, control, and prospective applications [Invited]. <i>Optics Express</i> , 2018 , 26, 9464-9483	3.3	19
84	Multi-beam multi-wavelength semiconductor lasers. <i>Applied Physics Letters</i> , 2009 , 95, 161108	3.4	19
83	Surface-emitting terahertz quantum cascade laser source based on intracavity difference-frequency generation. <i>Applied Physics Letters</i> , 2008 , 93, 161110	3.4	19
82	Three-Dimensional Measurement of the Helicity-Dependent Forces on a Mie Particle. <i>Physical Review Letters</i> , 2018 , 120, 223901	7.4	19
81	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
80	Subfemtonewton Force Spectroscopy at the Thermal Limit in Liquids. <i>Physical Review Letters</i> , 2016 , 116, 228001	7.4	17
79	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

78	Frequency-Modulated Combs Obey a Variational Principle. <i>Physical Review Letters</i> , 2019 , 122, 253901	7.4	15
77	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
76	External ring-cavity quantum cascade lasers. <i>Applied Physics Letters</i> , 2013 , 102, 141105	3.4	15
75	Polarity-controlled visible/infrared electroluminescence in Si-nanocrystal/Si light-emitting devices. <i>Applied Physics Letters</i> , 2010 , 97, 071112	3.4	15
74	Active mode locking of broadband quantum cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 844-851	2	15
73	Widely tunable harmonic frequency comb in a quantum cascade laser. <i>Applied Physics Letters</i> , 2018 , 113, 031104	3.4	14
72	Single-mode tapered quantum cascade lasers. <i>Applied Physics Letters</i> , 2013 , 102, 181102	3.4	14
71	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
70	Pulsed- and continuous-mode operation at high temperature of strained quantum-cascade lasers grown by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , 2006 , 88, 041102	3.4	14
69	Mode-locked short pulses from an 8 th wavelength semiconductor laser. <i>Nature Communications</i> , 2020 , 11, 5788	17.4	14
68	Optical bistability with a repulsive optical force in coupled silicon photonic crystal membranes. <i>Applied Physics Letters</i> , 2013 , 103, 021102	3.4	13
67	High-power low-divergence tapered quantum cascade lasers with plasmonic collimators. <i>Applied Physics Letters</i> , 2013 , 102, 191114	3.4	13
66	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
65	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
64	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
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