

# Federico Capasso

## List of Publications by Year in descending order

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319  
papers

47,711  
citations

3933

88  
h-index

1634

215  
g-index

324  
all docs

324  
docs citations

324  
times ranked

19076  
citing authors

#	ARTICLE	IF	CITATIONS
1	Roadmap on multimode light shaping. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 013001.	2.2	41
2	Introducing Berry phase gradients along the optical path via propagation-dependent polarization transformations. <i>Nanophotonics</i> , 2022, 11, 713-725.	6.0	14
3	A quantum cascade laser-pumped molecular laser tunable over 1 THz. <i>APL Photonics</i> , 2022, 7, .	5.7	8
4	Metasurface-based bijective illumination collection imaging provides high-resolution tomography in three dimensions. <i>Nature Photonics</i> , 2022, 16, 203-211.	31.4	24
5	Multi-line lasing in the broadly tunable ammonia quantum cascade laser pumped molecular laser. <i>Applied Physics Letters</i> , 2022, 120, 081108.	3.3	5
6	Imaging polarimetry through metasurface polarization gratings. <i>Optics Express</i> , 2022, 30, 9389.	3.4	34
7	Adjoint-optimized metasurfaces for compact mode-division multiplexing. <i>ACS Photonics</i> , 2022, 9, 929-937.	6.6	11
8	Laser Frequency Combs with Fast Gain Recovery: Physics and Applications. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	16
9	Tunable structured light with flat optics. <i>Science</i> , 2022, 376, eabi6860.	12.6	147
10	Diamond mirrors for high-power continuous-wave lasers. <i>Nature Communications</i> , 2022, 13, 2610.	12.8	9
11	Inverse design enables large-scale high-performance meta-optics reshaping virtual reality. <i>Nature Communications</i> , 2022, 13, 2409.	12.8	82
12	Empowering Metasurfaces with Inverse Design: Principles and Applications. <i>ACS Photonics</i> , 2022, 9, 2178-2192.	6.6	53
13	Gigahertz free-space electro-optic modulators based on Mie resonances. <i>Nature Communications</i> , 2022, 13, .	12.8	63
14	Measurements of the magneto-optical properties of thin-film EuS at room temperature in the visible spectrum. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	2
15	Jones Matrix Holography with Metasurfaces. , 2021, , .		1
16	Compact, low threshold methyl fluoride terahertz laser pumped by a quantum cascade laser. , 2021, , .		0
17	Compact Incoherent Spatial Frequency Filtering Enabled by Metasurface Engineering. , 2021, , .		0
18	Non-local multifunctional metasurfaces and their external cavity laser application. , 2021, , .		0

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19	Evolution of Total Angular Momentum and Berry Phase in 3D Structured Light. , 2021, , .		0
20	Metasurface optics for on-demand polarization transformations along the optical path. Nature Photonics, 2021, 15, 287-296.	31.4	212
21	Will flat optics appear in everyday life anytime soon?. Applied Physics Letters, 2021, 118, .	3.3	44
22	Reply to: Reconsidering metasurface lasers. Nature Photonics, 2021, 15, 339-340.	31.4	1
23	Unifying Frequency Combs in Active and Passive Cavities: Temporal Solitons in Externally Driven Ring Lasers. Physical Review Letters, 2021, 126, 173903.	7.8	31
24	Multifunctional wide-angle optics and lasing based on supercell metasurfaces. Nature Communications, 2021, 12, 3787.	12.8	66
25	Nonlinear Dynamics in Semiconductor Ring Lasers: From Phase Turbulence to Solitons. , 2021, , .		0
26	Low RF line width frequency-modulated and amplitude-modulated combs. , 2021, , .		0
27	Electrical injection-locking dynamics of a frequency-modulated comb. , 2021, , .		0
28	Actively mode-locked pulses from a mid-IR quantum cascade laser. , 2021, , .		0
29	Engineering phase and polarization singularity sheets. Nature Communications, 2021, 12, 4190.	12.8	28
30	Jones matrix holography with metasurfaces. Science Advances, 2021, 7, .	10.3	67
31	Spectrally resolved linewidth enhancement factor of a semiconductor frequency comb. Optica, 2021, 8, 1227.	9.3	11
32	Defect-engineered ring laser harmonic frequency combs. Optica, 2021, 8, 1277.	9.3	17
33	Coherent Raman scattering imaging with a near-infrared achromatic metalens. APL Photonics, 2021, 6, 096107.	5.7	8
34	Meta-optics achieves RGB-achromatic focusing for virtual reality. Science Advances, 2021, 7, .	10.3	142
35	High-purity orbital angular momentum states from a visible metasurface laser. , 2021, , .		0
36	Thin-film lithium niobate integrated circuits for terahertz generation and detection. , 2021, , .		0

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37	Extreme Optics: Inverse Design and Experimental Realizations of Ultra-Large-Area Complex Meta-Optics. , 2021, , .		0
38	Electro-optic spatial light modulator from an engineered organic layer. Nature Communications, 2021, 12, 5928.	12.8	58
39	A High Aspect Ratio Inverse-Designed Holey Metalens. Nano Letters, 2021, 21, 8642-8649.	9.1	38
40	Structuring total angular momentum of light along the propagation direction with polarization-controlled meta-optics. Nature Communications, 2021, 12, 6249.	12.8	59
41	New approaches to polarization optics and structured light with metasurfaces. , 2021, , .		0
42	Widely tunable quantum cascade laser-pumped methyl fluoride terahertz laser. , 2021, , .		0
43	Polarization in diffractive optics and metasurfaces. Advances in Optics and Photonics, 2021, 13, 836.	25.5	48
44	Generalized polarization transformations with metasurfaces. Optics Express, 2021, 29, 39065.	3.4	8
45	Compact Incoherent Spatial Frequency Filtering and Image Differentiation Enabled by Metalens Engineering. , 2021, , .		0
46	Flat Optics Based on Metasurfaces: From Components to Cameras. , 2021, , .		0
47	Slow light nanocoatings for ultrashort pulse compression. Nature Communications, 2021, 12, 6518.	12.8	12
48	Global and localised temporal structures in driven ring quantum cascade lasers. Chaos, Solitons and Fractals, 2021, 153, 111537.	5.1	5
49	Enhancing the modal purity of orbital angular momentum photons. APL Photonics, 2020, 5, 070802.	5.7	28
50	Mode-locked short pulses from an 8 $\mu$ m wavelength semiconductor laser. Nature Communications, 2020, 11, 5788.	12.8	37
51	Optical properties of metasurfaces infiltrated with liquid crystals. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20390-20396.	7.1	66
52	Remote structuring of near-field landscapes. Science, 2020, 369, 436-440.	12.6	17
53	Continuous angle-tunable birefringence with freeform metasurfaces for arbitrary polarization conversion. Science Advances, 2020, 6, eaba3367.	10.3	143
54	Frequency combs induced by phase turbulence. Nature, 2020, 582, 360-364.	27.8	87

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55	Flat optics with dispersion-engineered metasurfaces. Nature Reviews Materials, 2020, 5, 604-620.	48.7	411
56	Ultra-high Angular Selectivity of Disorder-Engineered Metasurfaces. ACS Photonics, 2020, 7, 991-1000.	6.6	15
57	In-Phase and Anti-Phase Synchronization in a Laser Frequency Comb. Physical Review Letters, 2020, 124, 023901.	7.8	61
58	Hot-Carrier Extraction in Nanowire-Nanoantenna Photovoltaic Devices. Nano Letters, 2020, 20, 4064-4072.	9.1	21
59	High-purity orbital angular momentum states from a visible metasurface laser. Nature Photonics, 2020, 14, 498-503.	31.4	230
60	Improving the light collection efficiency of silicon photomultipliers through the use of metalenses. Journal of Instrumentation, 2020, 15, P11021-P11021.	1.2	6
61	Purity and efficiency of hybrid orbital angular momentum-generating metasurfaces. Journal of Nanophotonics, 2020, 14, 1.	1.0	13
62	Shaping harmonic frequency combs in ring injection lasers by defect engineering. , 2020, , .		2
63	Soliton dynamics of ring quantum cascade lasers with injected signal. Nanophotonics, 2020, 10, 195-207.	6.0	21
64	40 <sup>th</sup> Invited Paper: A Large RGB <sup>+</sup> achromatic Metalens for Virtual/Augmented Reality Applications. Digest of Technical Papers SID International Symposium, 2020, 51, 575-578.	0.3	0
65	Room Temperature Compact Terahertz Laser Tunable over 1 THz. , 2020, , .		0
66	A metalens-based virtual reality (VR) / augmented reality (AR) system. , 2020, , .		0
67	Total Angular Momentum Management of Three Dimensional Vortices with a Single Plate. , 2020, , .		0
68	High Q-factor resonators and nanoantennas based on phonon polaritons in van der Waals materials. , 2020, , .		1
69	Tunable quantum-cascade laser pumped molecular lasers for terahertz imaging. , 2020, , .		0
70	Longitudinally Variable Polarization Optics. , 2020, , .		0
71	Designer Structured Light with Metasurfaces. , 2020, , .		0
72	Low Voltage Imaging of Quantum Materials Imaging the Surface Plasmon Polaritons in Chalcogenides. Microscopy and Microanalysis, 2019, 25, 460-461.	0.4	0

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73	Matrix Fourier optics enables a compact full-Stokes polarization camera. <i>Science</i> , 2019, 365, .	12.6	471
74	Using the Belinfante momentum to retrieve the polarization state of light inside waveguides. <i>Scientific Reports</i> , 2019, 9, 14879.	3.3	7
75	Widely tunable compact terahertz gas lasers. <i>Science</i> , 2019, 366, 856-860.	12.6	69
76	All-Glass, Large Metalens at Visible Wavelength Using Deep-Ultraviolet Projection Lithography. <i>Nano Letters</i> , 2019, 19, 8673-8682.	9.1	165
77	Dielectric multi-momentum meta-transformer in the visible. <i>Nature Communications</i> , 2019, 10, 4789.	12.8	82
78	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.	7.1	105
79	Polariton nanophotonics using phase-change materials. <i>Nature Communications</i> , 2019, 10, 4487.	12.8	106
80	A broadband achromatic polarization-insensitive metalens consisting of anisotropic nanostructures. <i>Nature Communications</i> , 2019, 10, 355.	12.8	297
81	Frequency-Modulated Combs Obey a Variational Principle. <i>Physical Review Letters</i> , 2019, 122, 253901.	7.8	23
82	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.	5.0	27
83	Imaging Performance of Polarization-Insensitive Metalenses. <i>ACS Photonics</i> , 2019, 6, 1493-1499.	6.6	57
84	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.	7.1	26
85	Versatile total angular momentum generation using cascaded J-plates. <i>Optics Express</i> , 2019, 27, 7469.	3.4	39
86	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.	2.9	12
87	Engineering phonon polaritons in van der Waals heterostructures to enhance in-plane optical anisotropy. <i>Science Advances</i> , 2019, 5, eaau7171.	10.3	71
88	Dispersion Engineered Metasurfaces for Broadband Achromatic Optics. , 2019, , .		0
89	Mitigating Chromatic Dispersion with Hybrid Optical Metasurfaces. <i>Advanced Materials</i> , 2019, 31, e1805555.	21.0	37
90	Compact Aberration-Corrected Spectrometers in the Visible Using Dispersion-Tailored Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801144.	7.3	52

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91	Concepts in quantum state tomography and classical implementation with intense light: a tutorial. <i>Advances in Optics and Photonics</i> , 2019, 11, 67.	25.5	107
92	Large-area, single material metalens in the visible: An approach for mass-production using conventional semiconductor manufacturing techniques. , 2019, , .		2
93	Engineering metasurface dispersion for achromatic optics. , 2019, , .		0
94	Polariton Meta-Optics with Phase-Change Materials. , 2019, , .		0
95	Reconfigurable mid-infrared optical elements using phase change materials. , 2019, , .		1
96	Dynamic metasurface lens based on MEMS technology. <i>APL Photonics</i> , 2018, 3, .	5.7	120
97	Single-Layer Metasurface with Controllable Multiwavelength Functions. <i>Nano Letters</i> , 2018, 18, 2420-2427.	9.1	165
98	Giant intrinsic chiro-optical activity in planar dielectric nanostructures. <i>Light: Science and Applications</i> , 2018, 7, 17158-17158.	16.6	234
99	Adaptive metalenses with simultaneous electrical control of focal length, astigmatism, and shift. <i>Science Advances</i> , 2018, 4, eaap9957.	10.3	275
100	The future and promise of flat optics: a personal perspective. <i>Nanophotonics</i> , 2018, 7, 953-957.	6.0	113
101	Topology-Optimized Multilayered Metaoptics. <i>Physical Review Applied</i> , 2018, 9, .	3.8	129
102	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, .	3.3	5
103	Guided Modes of Anisotropic van der Waals Materials Investigated by near-Field Scanning Optical Microscopy. <i>ACS Photonics</i> , 2018, 5, 1196-1201.	6.6	15
104	Mid-infrared two-photon absorption in an extended-wavelength InGaAs photodetector. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	33
105	A broadband achromatic metalens for focusing and imaging in the visible. <i>Nature Nanotechnology</i> , 2018, 13, 220-226.	31.5	1,190
106	Focus Point on Complex Photonics. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	0
107	Negative Refraction Based on Guided-Mode Assisted Meta-Gratings. , 2018, , .		0
108	Broadband Achromatic Metasurface-Refractive Optics. <i>Nano Letters</i> , 2018, 18, 7801-7808.	9.1	138

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109	Solid-immersion metalenses for infrared focal plane arrays. Applied Physics Letters, 2018, 113, .	3.3	66
110	Three-Dimensional Measurement of the Helicity-Dependent Forces on a Mie Particle. Physical Review Letters, 2018, 120, 223901.	7.8	25
111	Special Issue on "Ultra-capacity Metasurfaces with Low Dimension and High Efficiency" ACS Photonics, 2018, 5, 1640-1642.	6.6	10
112	Nano-optic endoscope for high-resolution optical coherence tomography in vivo. Nature Photonics, 2018, 12, 540-547.	31.4	255
113	Large area metalenses: design, characterization, and mass manufacturing. Optics Express, 2018, 26, 1573.	3.4	162
114	The harmonic state of quantum cascade lasers: origin, control, and prospective applications [Invited]. Optics Express, 2018, 26, 9464.	3.4	30
115	Time-dependent population inversion gratings in laser frequency combs. Optica, 2018, 5, 475.	9.3	39
116	Selective excitation and imaging of ultraslow phonon polaritons in thin hexagonal boron nitride crystals. Light: Science and Applications, 2018, 7, 27.	16.6	75
117	Radiative Thermal Runaway Due to Negative-Differential Thermal Emission Across a Solid-Solid Phase Transition. Physical Review Applied, 2018, 10, .	3.8	20
118	Widely tunable harmonic frequency comb in a quantum cascade laser. Applied Physics Letters, 2018, 113, .	3.3	19
119	High-efficiency chiral meta-lens. Scientific Reports, 2018, 8, 7240.	3.3	36
120	Polarization state generation and measurement with a single metasurface. Optics Express, 2018, 26, 21455.	3.4	88
121	Ultra-confined mid-infrared resonant phonon polaritons in van der Waals nanostructures. Science Advances, 2018, 4, eaat7189.	10.3	100
122	Imaging of Ultra-Confined Phonon Polaritons in Hexagonal Boron Nitride on Gold. , 2018, , .		1
123	Inverse design of large-area metasurfaces. Optics Express, 2018, 26, 33732.	3.4	177
124	Achromatic Metalens over 60 nm Bandwidth in the Visible and Metalens with Reverse Chromatic Dispersion. Nano Letters, 2017, 17, 1819-1824.	9.1	453
125	Ultra-compact visible chiral spectrometer with meta-lenses. APL Photonics, 2017, 2, .	5.7	108
126	Optical Nanomaterials: Light Manipulation in Metallic Nanowire Networks with Functional Connectivity (Advanced Optical Materials 5/2017). Advanced Optical Materials, 2017, 5, .	7.3	1



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127	Watt-Level Continuous-Wave Emission from a Bifunctional Quantum Cascade Laser/Detector. ACS Photonics, 2017, 4, 1225-1231.	6.6	50
128	Scalable, ultra-resistant structural colors based on network metamaterials. Light: Science and Applications, 2017, 6, e16233-e16233.	16.6	70
129	Generation of wavelength-independent subwavelength Bessel beams using metasurfaces. Light: Science and Applications, 2017, 6, e16259-e16259.	16.6	213
130	Observation of Nanoscale Refractive Index Contrast via Photoinduced Force Microscopy. ACS Photonics, 2017, 4, 846-851.	6.6	27
131	Immersion Meta-Lenses at Visible Wavelengths for Nanoscale Imaging. Nano Letters, 2017, 17, 3188-3194.	9.1	155
132	Metasurface Polarization Optics: Independent Phase Control of Arbitrary Orthogonal States of Polarization. Physical Review Letters, 2017, 118, 113901.	7.8	1,033
133	Light Manipulation in Metallic Nanowire Networks with Functional Connectivity. Advanced Optical Materials, 2017, 5, 1600580.	7.3	14
134	High-Operating-Temperature Direct Ink Writing of Mesoscale Eutectic Architectures. Advanced Materials, 2017, 29, 1604778.	21.0	41
135	Elliptical orbits of microspheres in an evanescent field. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11087-11091.	7.1	12
136	Arbitrary spin-to-orbital angular momentum conversion of light. Science, 2017, 358, 896-901.	12.6	828
137	Metalenses: Versatile multifunctional photonic components. Science, 2017, 358, .	12.6	671
138	Self-starting harmonic frequency comb generation in a quantum cascade laser. Nature Photonics, 2017, 11, 789-792.	31.4	74
139	Mechanical Detection and Imaging of Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. ACS Nano, 2017, 11, 8741-8746.	14.6	48
140	Epsilon-Near-Zero Substrate Engineering for Ultrathin-Film Perfect Absorbers. Physical Review Applied, 2017, 8, .	3.8	88
141	Meta-Lens Doublet in the Visible Region. Nano Letters, 2017, 17, 4902-4907.	9.1	328
142	Visible Wavelength Planar Metalenses Based on Titanium Dioxide. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 43-58.	2.9	62
143	Modeling and design of Al <sub>0.25</sub> Ga <sub>0.75</sub> As/GaAs terahertz quantum cascade lasers with a realistic band structure. , 2017, , .		0
144	Performance characteristics of 4-port in-plane and out-of-plane in-line metasurface polarimeters. Optics Express, 2017, 25, 28697.	3.4	17

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145	Recent advances in planar optics: from plasmonic to dielectric metasurfaces. <i>Optica</i> , 2017, 4, 139.	9.3	837
146	Spin-to-orbital angular momentum conversion in dielectric metasurfaces. <i>Optics Express</i> , 2017, 25, 377.	3.4	160
147	Single-mode instability in standing-wave lasers: The quantum cascade laser as a self-pumped parametric oscillator. <i>Physical Review A</i> , 2016, 94, .	2.5	71
148	Subwavelength resolution imaging by ultra-thin meta-lens. , 2016, , .		0
149	Broadband and chiral binary dielectric meta-holograms. <i>Science Advances</i> , 2016, 2, e1501258.	10.3	266
150	Super-Dispersive Off-Axis Meta-Lenses for Compact High Resolution Spectroscopy. <i>Nano Letters</i> , 2016, 16, 3732-3737.	9.1	179
151	Optical absorbers based on strong interference in ultra-thin films. <i>Laser and Photonics Reviews</i> , 2016, 10, 735-749.	8.7	194
152	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, 10473-10478.	7.1	417
153	High efficiency near diffraction-limited mid-infrared flat lenses based on metasurface reflectarrays. <i>Optics Express</i> , 2016, 24, 18024.	3.4	114
154	Designing large, high-efficiency, high-numerical-aperture, transmissive meta-lenses for visible light. <i>Optics Express</i> , 2016, 24, 5110.	3.4	117
155	Subfemtonewton Force Spectroscopy at the Thermal Limit in Liquids. <i>Physical Review Letters</i> , 2016, 116, 228001.	7.8	22
156	Measurement of bound states in the continuum by a detector embedded in a photonic crystal. <i>Light: Science and Applications</i> , 2016, 5, e16147-e16147.	16.6	73
157	Polarization-Insensitive Metalenses at Visible Wavelengths. <i>Nano Letters</i> , 2016, 16, 7229-7234.	9.1	532
158	Multispectral Chiral Imaging with a Metalens. <i>Nano Letters</i> , 2016, 16, 4595-4600.	9.1	360
159	Metalenses at visible wavelengths: Diffraction-limited focusing and subwavelength resolution imaging. <i>Science</i> , 2016, 352, 1190-1194.	12.6	2,435
160	Designed Quasi-1D Potential Structures Realized in Compositionally Graded InAs <sub>1-x</sub> P <sub>x</sub> Nanowires. <i>Nano Letters</i> , 2016, 16, 1017-1021.	9.1	8
161	Ultracompact metasurface in-line polarimeter. <i>Optica</i> , 2016, 3, 42.	9.3	183
162	Active Optical Metasurfaces Based on Defect-Engineered Phase-Transition Materials. <i>Nano Letters</i> , 2016, 16, 1050-1055.	9.1	186

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163	Multiwavelength quantum cascade laser arrays. <i>Laser and Photonics Reviews</i> , 2015, 9, 452-477.	8.7	45
164	Near-Field Imaging of Phased Array Metasurfaces. <i>Nano Letters</i> , 2015, 15, 3851-3858.	9.1	55
165	Controlled steering and focusing of Surface Plasmons with Metasurfaces. , 2015, , .		0
166	Achromatic metasurfaces by dispersive phase compensation. , 2015, , .		5
167	Multiwavelength achromatic metasurfaces by dispersive phase compensation. <i>Science</i> , 2015, 347, 1342-1345.	12.6	868
168	Holographic optical metasurfaces: a review of current progress. <i>Reports on Progress in Physics</i> , 2015, 78, 024401.	20.1	263
169	Optical Metasurfaces and Prospect of Their Applications Including Fiber Optics. <i>Journal of Lightwave Technology</i> , 2015, 33, 2344-2358.	4.6	102
170	Controlled steering of Cherenkov surface plasmon wakes with a one-dimensional metamaterial. <i>Nature Nanotechnology</i> , 2015, 10, 804-809.	31.5	119
171	Achromatic Metasurface Lens at Telecommunication Wavelengths. <i>Nano Letters</i> , 2015, 15, 5358-5362.	9.1	367
172	Holographic Metalens for Switchable Focusing of Surface Plasmons. <i>Nano Letters</i> , 2015, 15, 3585-3589.	9.1	72
173	Lateral chirality-sorting optical forces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13190-13194.	7.1	182
174	Broadband Multifunctional Efficient Meta-Gratings Based on Dielectric Waveguide Phase Shifters. <i>Nano Letters</i> , 2015, 15, 6709-6715.	9.1	99
175	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.	2.4	45
176	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.	7.1	30
177	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.	1.0	11
178	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.	7.1	25
179	Mode switching in a multi-wavelength distributed feedback quantum cascade laser using an external micro-cavity. <i>Applied Physics Letters</i> , 2014, 104, 051102.	3.3	3
180	Flat optics with designer metasurfaces. <i>Nature Materials</i> , 2014, 13, 139-150.	27.5	4,358

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181	Ultra-Compact Mid-IR Modulators Based on Electrically Tunable Optical Antennas. , 2014, , .		0
182	Instability-induced pattern formation of photoactivated functional polymers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17017-17022.	7.1	34
183	Study of photocurrent generation in InP nanowire-based p+i-n+ photodetectors. Nano Research, 2014, 7, 544-552.	10.4	37
184	Optical bistability with a repulsive optical force in coupled silicon photonic crystal membranes. Applied Physics Letters, 2013, 103, .	3.3	14
185	High-brightness quantum cascade laser spectrometers based on master-oscillator-power-amplifier arrays. , 2013, , .		0
186	Single-mode tapered quantum cascade lasers. Applied Physics Letters, 2013, 102, .	3.3	16
187	Measurement of the ultrafast temporal response of a plasmonic antenna. Annalen Der Physik, 2013, 525, L6.	2.4	9
188	Investigation of Tunable Single-Mode Quantum Cascade Lasers Via Surface-Acoustic-Wave Modulation. IEEE Journal of Quantum Electronics, 2013, 49, 1053-1061.	1.9	2
189	Flat Optics: Controlling Wavefronts With Optical Antenna Metasurfaces. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 4700423-4700423.	2.9	258
190	Tetrahedral Colloidal Clusters from Random Parking of Bidisperse Spheres. Physical Review Letters, 2013, 110, 148303.	7.8	80
191	High-power low-divergence tapered quantum cascade lasers with plasmonic collimators. Applied Physics Letters, 2013, 102, .	3.3	14
192	High-brightness tapered quantum cascade lasers. Applied Physics Letters, 2013, 102, 053503.	3.3	24
193	External ring-cavity quantum cascade lasers. Applied Physics Letters, 2013, 102, .	3.3	21
194	Aberrations of flat lenses and aplanatic metasurfaces. Optics Express, 2013, 21, 31530.	3.4	163
195	Metasurface-based half-wave plate. , 2013, , .		0
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