

Mattias Beck

List of Publications by Year in descending order

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413
papers

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416
all docs

416
docs citations

416
times ranked

5538
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous Wave Operation of a Mid-Infrared Semiconductor Laser at Room Temperature. <i>Science</i> , 2002, 295, 301-305.	6.0	722
2	Ultrastrong Coupling of the Cyclotron Transition of a 2D Electron Gas to a THz Metamaterial. <i>Science</i> , 2012, 335, 1323-1326.	6.0	452
3	GaAs/AlxGa1-xAs quantum cascade lasers. <i>Applied Physics Letters</i> , 1998, 73, 3486-3488.	1.5	414
4	Dipole Coupling of a Double Quantum Dot to a Microwave Resonator. <i>Physical Review Letters</i> , 2012, 108, 046807.	2.9	287
5	Octave-spanning semiconductor laser. <i>Nature Photonics</i> , 2015, 9, 42-47.	15.6	240
6	Gain without inversion in semiconductor nanostructures. <i>Nature Materials</i> , 2006, 5, 175-178.	13.3	237
7	Quantum-cascade lasers based on a bound-to-continuum transition. <i>Applied Physics Letters</i> , 2001, 78, 147-149.	1.5	234
8	Bound-to-continuum and two-phonon resonance, quantum-cascade lasers for high duty cycle, high-temperature operation. <i>IEEE Journal of Quantum Electronics</i> , 2002, 38, 533-546.	1.0	215
9	External cavity quantum cascade laser tunable from 7.6 to 11.4 μm . <i>Applied Physics Letters</i> , 2009, 95, .	1.5	207
10	Low-divergence single-mode terahertz quantum cascade laser. <i>Nature Photonics</i> , 2009, 3, 586-590.	15.6	205
11	ac Stark Splitting and Quantum Interference with Intersubband Transitions in Quantum Wells. <i>Physical Review Letters</i> , 2005, 94, 157403.	2.9	202
12	Room-temperature nine- μm -wavelength photodetectors and GHz-frequency heterodyne receivers. <i>Nature</i> , 2018, 556, 85-88.	13.7	197
13	Thermoelectrically cooled THz quantum cascade laser operating up to 210 K. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	178
14	Quantum Cascade Laser Frequency Combs. <i>Nanophotonics</i> , 2016, 5, 272-291.	2.9	171
15	Ultrastrong Coupling Regime and Plasmon Polaritons in Parabolic Semiconductor Quantum Wells. <i>Physical Review Letters</i> , 2012, 108, 106402.	2.9	165
16	Low-Bias Active Control of Terahertz Waves by Coupling Large-Area CVD Graphene to a Terahertz Metamaterial. <i>Nano Letters</i> , 2013, 13, 3193-3198.	4.5	163
17	High-temperature operation of distributed feedback quantum-cascade lasers at 5.3 μm . <i>Applied Physics Letters</i> , 2001, 78, 396-398.	1.5	154
18	Bound-to-continuum terahertz quantum cascade laser with a single-quantum-well phonon extraction/injection stage. <i>New Journal of Physics</i> , 2009, 11, 125022.	1.2	153

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19	Broadband tuning of external cavity bound-to-continuum quantum-cascade lasers. Applied Physics Letters, 2004, 84, 1659-1661.	1.5	150
20	Far-infrared ($\lambda = 88 \mu\text{m}$) electroluminescence in a quantum cascade structure. Applied Physics Letters, 1998, 73, 3724-3726.	1.5	148
21	Imaging with a Terahertz quantum cascade laser. Optics Express, 2004, 12, 1879.	1.7	145
22	Impulsive terahertz radiation with high electric fields from an amplifier-driven large-area photoconductive antenna. Optics Express, 2010, 18, 9251.	1.7	145
23	Ultrastrong coupling in the near field of complementary split-ring resonators. Physical Review B, 2014, 90, .	1.1	140
24	Microcavity Laser Oscillating in a Circuit-Based Resonator. Science, 2010, 327, 1495-1497.	6.0	126
25	Low-loss Al-free waveguides for unipolar semiconductor lasers. Applied Physics Letters, 1999, 75, 3911-3913.	1.5	125
26	Terahertz emission from lateral photo-Dember currents. Optics Express, 2010, 18, 4939.	1.7	123
27	Magneto-transport controlled by Landau polariton states. Nature Physics, 2019, 15, 186-190.	6.5	115
28	Quantum-cascade-laser structures as photodetectors. Applied Physics Letters, 2002, 81, 2683-2685.	1.5	112
29	Continuous wave operation of a $9.3 \mu\text{m}$ quantum cascade laser on a Peltier cooler. Applied Physics Letters, 2001, 78, 1964-1966.	1.5	111
30	Evidence of linear chirp in mid-infrared quantum cascade lasers. Optica, 2018, 5, 948.	4.8	110
31	Energy-Gap Dynamics of Superconducting NbN Thin Films Studied by Time-Resolved Terahertz Spectroscopy. Physical Review Letters, 2011, 107, 177007.	2.9	104
32	Photoacoustic spectroscopy with quantum cascade distributed-feedback lasers. Optics Letters, 2001, 26, 887.	1.7	102
33	Free-space optical data link using Peltier-cooled quantum cascade laser. Electronics Letters, 2001, 37, 778.	0.5	86
34	Irreversibility on the Level of Single-Electron Tunneling. Physical Review X, 2012, 2, .	2.8	85
35	Surface-emitting $10.1 \mu\text{m}$ quantum-cascade distributed feedback lasers. Applied Physics Letters, 1999, 75, 3769-3771.	1.5	80
36	On-chip, self-detected terahertz dual-comb source. Applied Physics Letters, 2016, 108, .	1.5	77

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37	Dispersion engineering of quantum cascade laser frequency combs. <i>Optica</i> , 2016, 3, 252.	4.8	76
38	Retrieval of phase relation and emission profile of quantum cascade laser frequency combs. <i>Nature Photonics</i> , 2019, 13, 562-568.	15.6	76
39	Low divergence Terahertz photonic-wire laser. <i>Optics Express</i> , 2010, 18, 6390.	1.7	75
40	Mid-infrared trace-gas sensing with a quasi-continuous-wave Peltier-cooled distributed feedback quantum cascade laser. <i>Applied Physics B: Lasers and Optics</i> , 2004, 79, 907-913.	1.1	71
41	Broadband THz lasing from a photon-phonon quantum cascade structure. <i>Optics Express</i> , 2010, 18, 8043.	1.7	70
42	Dynamics of ultra-broadband terahertz quantum cascade lasers for comb operation. <i>Optics Express</i> , 2015, 23, 33270.	1.7	70
43	Transient Increase of the Energy Gap of Superconducting NbN Thin Films Excited by Resonant Narrow-Band Terahertz Pulses. <i>Physical Review Letters</i> , 2013, 110, 267003.	2.9	68
44	Four-wave mixing in a quantum cascade laser amplifier. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	68
45	Dual comb operation of $\lambda = 8.2 \mu\text{m}$ quantum cascade laser frequency comb with 1 W optical power. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	68
46	Short pulse generation and mode control of broadband terahertz quantum cascade lasers. <i>Optica</i> , 2016, 3, 1087.	4.8	62
47	Electrically driven nanopillars for THz quantum cascade lasers. <i>Optics Express</i> , 2013, 21, 10917.	1.7	61
48	Demonstration of high-performance $10.16 \mu\text{m}$ quantum cascade distributed feedback lasers fabricated without epitaxial regrowth. <i>Applied Physics Letters</i> , 1999, 75, 665-667.	1.5	60
49	Ultra-broadband heterogeneous quantum cascade laser emitting from 2.2 to 3.2 THz. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	60
50	Mid-infrared frequency comb from a ring quantum cascade laser. <i>Optica</i> , 2020, 7, 162.	4.8	60
51	Mid-Infrared Quantum Cascade Lasers for Flow Injection Analysis. <i>Analytical Chemistry</i> , 2000, 72, 1645-1648.	3.2	59
52	Long-wavelength ($\lambda = 16 \mu\text{m}$), room-temperature, single-frequency quantum-cascade lasers based on a bound-to-continuum transition. <i>Applied Physics Letters</i> , 2001, 79, 4271-4273.	1.5	58
53	Few-Electron Ultrastrong Light-Matter Coupling at 300 GHz with Nanogap Hybrid LC Microcavities. <i>Nano Letters</i> , 2017, 17, 7410-7415.	4.5	57
54	Breakdown of topological protection by cavity vacuum fields in the integer quantum Hall effect. <i>Science</i> , 2022, 375, 1030-1034.	6.0	57

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55	Quantum dot admittance probed at microwave frequencies with an on-chip resonator. Physical Review B, 2012, 86, .	1.1	56
56	Continuous-wave operation of far-infrared quantum cascade lasers. Electronics Letters, 2002, 38, 1675.	0.5	55
57	Complex-coupled photonic crystal THz lasers with independent loss and refractive index modulation. Optics Express, 2011, 19, 10707.	1.7	55
58	Continuous-wave distributed-feedback quantum-cascade lasers on a Peltier cooler. Applied Physics Letters, 2003, 83, 1929-1931.	1.5	53
59	Two-well quantum cascade laser optimization by non-equilibrium Green's function modelling. Applied Physics Letters, 2018, 112, .	1.5	53
60	High-resolution and gapless dual comb spectroscopy with current-tuned quantum cascade lasers. Optics Express, 2020, 28, 6197.	1.7	53
61	Electrically tunable, high performance quantum cascade laser. Applied Physics Letters, 2010, 96, .	1.5	52
62	Doping in quantum cascade lasers. I. InAlAs/InGaAs/InP midinfrared devices. Journal of Applied Physics, 2006, 100, 043101.	1.1	51
63	On-chip dual-comb based on quantum cascade laser frequency combs. Applied Physics Letters, 2015, 107, .	1.5	51
64	Room temperature terahertz polariton emitter. Applied Physics Letters, 2012, 101, .	1.5	50
65	Heterogeneous terahertz quantum cascade lasers exceeding 1.9 THz spectral bandwidth and featuring dual comb operation. Nanophotonics, 2018, 7, 237-242.	2.9	49
66	Strong light-matter coupling at terahertz frequencies at room temperature in electronic LC resonators. Applied Physics Letters, 2010, 97, .	1.5	48
67	Dissipative Kerr solitons in semiconductor ring lasers. Nature Photonics, 2022, 16, 142-147.	15.6	45
68	Stand-alone system for high-resolution, real-time terahertz imaging. Optics Express, 2012, 20, 2772.	1.7	44
69	Fully automatized quantum cascade laser design by genetic optimization. Applied Physics Letters, 2012, 101, .	1.5	44
70	High frequency modulation of mid-infrared quantum cascade lasers embedded into microstrip line. Applied Physics Letters, 2013, 102, .	1.5	44
71	Injection locking of mid-infrared quantum cascade laser at 14 GHz, by direct microwave modulation. Laser and Photonics Reviews, 2014, 8, 443-449.	4.4	44
72	Rf-modulation of mid-infrared distributed feedback quantum cascade lasers. Optics Express, 2016, 24, 3294.	1.7	44

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73	Photon-Driven Broadband Emission and Frequency Comb RF Injection Locking in THz Quantum Cascade Lasers. ACS Photonics, 2020, 7, 784-791.	3.2	44
74	Singlemode quantum cascade lasers with power dissipation below 1â€W. Electronics Letters, 2012, 48, 646.	0.5	42
75	Femtosecond pulses from a mid-infrared quantum cascade laser. Nature Photonics, 2021, 15, 919-924.	15.6	42
76	Buried heterostructure quantum cascade lasers with a large optical cavity waveguide. IEEE Photonics Technology Letters, 2000, 12, 1450-1452.	1.3	40
77	High power Sb-free quantum cascade laser emitting at 3.3â€m above 350 K. Applied Physics Letters, 2011, 98, .	1.5	40
78	Dual-wavelength quantum cascade laser for trace gas spectroscopy. Applied Physics Letters, 2014, 105, .	1.5	40
79	Measurement of far-infrared waveguide loss using a multisection single-pass technique. Applied Physics Letters, 2001, 78, 1967-1969.	1.5	39
80	A patch-array antenna single-mode low electrical dissipation continuous wave terahertz quantum cascade laser. Applied Physics Letters, 2016, 109, .	1.5	39
81	Electrically tunable, room-temperature quantum-cascade lasers. Applied Physics Letters, 1999, 75, 1509-1511.	1.5	36
82	Chemical sensing with pulsed QC-DFB lasers operating at 15.6 â€m. Applied Physics B: Lasers and Optics, 2002, 75, 351-357.	1.1	36
83	An electrically pumped phonon-polariton laser. Science Advances, 2019, 5, eaau1632.	4.7	36
84	Polaritonic nonlocality in lightâ€matter interaction. Nature Photonics, 2021, 15, 690-695.	15.6	36
85	Subcycle measurement of intensity correlations in the terahertz frequency range. Physical Review A, 2016, 93, .	1.0	35
86	Influence of the growth temperature on the performances of strain-balanced quantum cascade lasers. Applied Physics Letters, 2011, 98, .	1.5	34
87	Far-Infrared Quantum Cascade Lasers Operating in the AlAs Phonon Reststrahlen Band. ACS Photonics, 2016, 3, 2280-2284.	3.2	34
88	Broadband external cavity tuning in the 3-4â€m window. Applied Physics Letters, 2013, 103, .	1.5	33
89	Self-starting harmonic comb emission in THz quantum cascade lasers. Applied Physics Letters, 2021, 118, .	1.5	32
90	Scattering processes in terahertz InGaAs/InAlAs quantum cascade lasers. Applied Physics Letters, 2010, 97, 2211-14.	1.5	31

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91	Photoinduced melting of superconductivity in the high- T_c cuprates. <i>Physical Review Letters</i> , 2005, 95, 087001.	1.1	31
92	Detection of mid-IR radiation by sum frequency generation for free space optical communication. <i>Optics and Lasers in Engineering</i> , 2005, 43, 537-544.	2.0	30
93	Spectral gain profile of a multi-stack terahertz quantum cascade laser. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	30
94	Step well quantum cascade laser emitting at 3 THz. <i>Applied Physics Letters</i> , 2009, 94, 041114.	1.5	29
95	Ultrastrong light-matter coupling at terahertz frequencies with split ring resonators and inter-Landau level transitions. <i>Journal of Applied Physics</i> , 2013, 113, 136510.	1.1	29
96	Tunable dispersion compensation of quantum cascade laser frequency combs. <i>Optics Letters</i> , 2018, 43, 1746.	1.7	29
97	Large area photonic crystal quantum cascade laser with 5 W surface-emitting power. <i>Optics Express</i> , 2019, 27, 22708.	1.7	29
98	Digital alloy interface grading of an InAlAs/InGaAs quantum cascade laser structure studied by cross-sectional scanning tunneling microscopy. <i>Applied Physics Letters</i> , 2003, 83, 4131-4133.	1.5	28
99	Continuous-wave vertically emitting photonic crystal terahertz laser. <i>Laser and Photonics Reviews</i> , 2013, 7, L45.	4.4	28
100	Surface emitting multi-wavelength array of single frequency quantum cascade lasers. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	27
101	Room-Temperature, Wide-Band, Quantum Well Infrared Photodetector for Microwave Optical Links at 4.9 μm Wavelength. <i>ACS Photonics</i> , 2018, 5, 3689-3694.	3.2	27
102	Landau polaritons in highly nonparabolic two-dimensional gases in the ultrastrong coupling regime. <i>Physical Review B</i> , 2020, 101, .	1.1	27
103	Far-infrared emission and Stark-cyclotron resonances in a quantum-cascade structure based on photon-assisted tunneling transition. <i>Physical Review B</i> , 2000, 61, 8369-8374.	1.1	26
104	Terahertz intersubband emission in strong magnetic fields. <i>Applied Physics Letters</i> , 2002, 81, 67-69.	1.5	26
105	Spectroscopic study of the $\hat{\nu}_2$ band of SO ₂ using a continuous-wave DFB QCL at 9.1 μm . <i>Applied Physics B: Lasers and Optics</i> , 2003, 77, 703-706.	1.1	26
106	Sb-free quantum cascade lasers in the 4 μm spectral range. <i>Semiconductor Science and Technology</i> , 2012, 27, 045013.	1.0	26
107	Electrically tunable terahertz quantum cascade lasers based on a two-sections interdigitated distributed feedback cavity. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	26
108	Room temperature surface emission on large-area photonic crystal quantum cascade lasers. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	26

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109	Quantum cascade laser in a master oscillator power amplifier configuration with Watt-level optical output power. <i>Optics Express</i> , 2013, 21, 19180.	1.7	25
110	Continuous tuning of terahertz distributed feedback quantum cascade laser by gas condensation and dielectric deposition. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	25
111	Double metal waveguide InGaAs/AlInAs quantum cascade lasers emitting at 24 μm . <i>Applied Physics Letters</i> , 2014, 105, .	1.5	25
112	Gain dynamics in a heterogeneous terahertz quantum cascade laser. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	25
113	Gain measurements on GaAs-based quantum cascade lasers using a two-section cavity technique. <i>IEEE Journal of Quantum Electronics</i> , 2000, 36, 736-741.	1.0	24
114	Characterization and modeling of quantum cascade lasers based on a photon-assisted tunneling transition. <i>IEEE Journal of Quantum Electronics</i> , 2001, 37, 448-455.	1.0	24
115	Free-running 91- μm distributed-feedback quantum cascade laser linewidth measurement by heterodyning with a C^{18}O_2 laser. <i>Optics Letters</i> , 2003, 28, 704.	1.7	24
116	Superconducting complementary metasurfaces for THz ultrastrong light-matter coupling. <i>New Journal of Physics</i> , 2014, 16, 033005.	1.2	24
117	Mid-infrared quantum cascade laser frequency combs with a microstrip-like line waveguide geometry. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	24
118	Coupling terahertz radiation between sub-wavelength metal-metal waveguides and free space using monolithically integrated horn antennae. <i>Optics Express</i> , 2009, 17, 18387.	1.7	23
119	Characterization of a microwave frequency resonator via a nearby quantum dot. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	23
120	Integrated patch and slot array antenna for terahertz quantum cascade lasers at 4.7 THz. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	23
121	Coupled Waveguides for Dispersion Compensation in Semiconductor Lasers. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700323.	4.4	23
122	Controlling Quantum Cascade Laser Optical Frequency Combs through Microwave Injection. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100242.	4.4	23
123	Dual-Section DFB-QCLs for Multi-Species Trace Gas Analysis. <i>Photonics</i> , 2016, 3, 24.	0.9	22
124	Dispersion in a broadband terahertz quantum cascade laser. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	22
125	High-Power Growth-Robust InGaAs/InAlAs Terahertz Quantum Cascade Lasers. <i>ACS Photonics</i> , 2017, 4, 957-962.	3.2	22
126	Dual-wavelength DFB quantum cascade lasers: sources for multi-species trace gas spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	1.1	22

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127	Low-frequency noise properties of selectively dry etched InP HEMT's. IEEE Transactions on Electron Devices, 1998, 45, 1219-1225.	1.6	21
128	Quantum cascade lasers for open- and closed-path measurement of trace gases. , 2002, 4817, 22.		21
129	Ozone detection by differential absorption spectroscopy at ambient pressure with a 9.6 μ m pulsed quantum-cascade laser. Applied Physics B: Lasers and Optics, 2004, 78, 249-256.	1.1	21
130	CO2 isotope sensor using a broadband infrared source, a spectrally narrow 4.4 μ m quantum cascade detector, and a Fourier spectrometer. Applied Physics B: Lasers and Optics, 2011, 103, 967-970.	1.1	21
131	High performance 4.7 THz GaAs quantum cascade lasers based on four quantum wells. New Journal of Physics, 2016, 18, 123004.	1.2	21
132	High average power first-order distributed feedback quantum cascade lasers. IEEE Photonics Technology Letters, 2000, 12, 1610-1612.	1.3	20
133	Characterization of Si volume- and delta-doped InGaAs grown by molecular beam epitaxy. Journal of Applied Physics, 2010, 107, 093710.	1.1	20
134	Performance of the solid deuterium ultra-cold neutron source at the pulsed reactor TRIGA Mainz. European Physical Journal A, 2014, 50, 1.	1.0	20
135	An ultrastrongly coupled single terahertz meta-atom. Nature Communications, 2022, 13, 2528.	5.8	20
136	Experimental observation of the de Haas-van Alphen effect in a multiband quantum-well sample. Physical Review B, 1999, 60, R11277-R11280.	1.1	19
137	Electrical laser frequency tuning by three terminal terahertz quantum cascade lasers. Applied Physics Letters, 2014, 104, 011107.	1.5	19
138	High $\chi^{(2)}$ Superconducting THz Metamaterial for Ultrastrong Coupling in a Magnetic Field. ACS Photonics, 2018, 5, 3977-3983.	3.2	19
139	Second harmonic generation in (111)-oriented InP-based quantum cascade laser. Journal of Applied Physics, 2007, 101, 103107.	1.1	18
140	Magnetically assisted quantum cascade laser emitting from 740 GHz to 1.4 THz. Applied Physics Letters, 2010, 97, 081110.	1.5	18
141	Terahertz quantum cascade lasers based on quaternary AlInGaAs barriers. Applied Physics Letters, 2013, 103, 041103.	1.5	18
142	Dual-comb spectroscopy using plasmon-enhanced-waveguide dispersion-compensated quantum cascade lasers. Optics Letters, 2018, 43, 4522.	1.7	18
143	THz Ultrastrong Coupling in an Engineered Fabry-Perot Cavity. ACS Photonics, 2021, 8, 2692-2698.	3.2	17
144	Terahertz quantum cascade lasers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 215-231.	1.6	16

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145	Purcell effect in the inductor-capacitor laser. <i>Optics Letters</i> , 2011, 36, 2623.	1.7	16
146	Advanced Fabrication of Single-Mode and Multi-Wavelength MIR-QCLs. <i>Photonics</i> , 2016, 3, 26.	0.9	16
147	High speed, monolithically integrated pin-HEMT photoreceiver fabricated on InP with 18 GHz bandwidth. <i>Electronics Letters</i> , 1995, 31, 1831-1833.	0.5	15
148	Electrically pumped Terahertz quantum well sources. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 44-47.	1.3	15
149	Long-wavelength ($\approx 10.5 \mu\text{m}$) quantum cascade lasers based on a photon-assisted tunneling transition in strong magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 33-36.	1.3	15
150	InGaAs/AlInGaAs THz quantum cascade lasers operating up to 195 K in strong magnetic field. <i>New Journal of Physics</i> , 2015, 17, 023050.	1.2	15
151	THz intersubband electroluminescence from n-type Ge/SiGe quantum cascade structures. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	15
152	Pulses from a mid-infrared quantum cascade laser frequency comb using an external compressor. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1676.	0.9	15
153	Loss mechanisms of quantum cascade lasers operating close to optical phonon frequencies. <i>Journal of Applied Physics</i> , 2011, 109, 102407.	1.1	14
154	Intensity autocorrelation measurements of frequency combs in the terahertz range. <i>Physical Review A</i> , 2017, 96, .	1.0	14
155	Gate and magnetic field tunable ultrastrong coupling between a magnetoplasmon and the optical mode of an LC cavity. <i>Physical Review B</i> , 2017, 95, .	1.1	14
156	RF Injection of THz QCL Combs at 80 K Emitting over 700 GHz Spectral Bandwidth. <i>Photonics</i> , 2020, 7, 9.	0.9	14
157	Regenerative terahertz quantum detectors. <i>APL Photonics</i> , 2021, 6, .	3.0	14
158	Midinfrared electroluminescence from InAs/InP quantum dashes. <i>Applied Physics Letters</i> , 2010, 97, 221109.	1.5	13
159	Investigation of coherent acoustic phonons in terahertz quantum cascade laser structures using femtosecond pump-probe spectroscopy. <i>Journal of Applied Physics</i> , 2012, 112, 033517.	1.1	13
160	Broadband terahertz amplification in a heterogeneous quantum cascade laser. <i>Optics Express</i> , 2015, 23, 3117.	1.7	13
161	Progress in Quantum Cascade Lasers. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2008, , 171-192.	0.2	13
162	Optimization of sample-chip design for stub-matched radio-frequency reflectometry measurements. <i>Applied Physics Letters</i> , 2012, 101, 042112.	1.5	12

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163	Room-temperature transverse-electric polarized intersubband electroluminescence from InAs/AlInAs quantum dashes. Applied Physics Letters, 2012, 101, 261113.	1.5	12
164	Distributed-feedback quantum cascade laser emitting at 32 μm . Optics Express, 2014, 22, 2111.	1.7	12
165	Upgrade of the ultracold neutron source at the pulsed reactor TRIGA Mainz. European Physical Journal A, 2017, 53, 1.	1.0	12
166	Mixing Properties of Room Temperature Patch Antenna Receivers in a Mid-Infrared (8-9 μm) Heterodyne System. Laser and Photonics Reviews, 2020, 14, 1900207.	4.4	12
167	Influence of DX centers on the performance of unipolar semiconductor lasers based on GaAs-Al/sub x/Ga/sub 1-x/As. IEEE Photonics Technology Letters, 1999, 11, 1090-1092.	1.3	11
168	A quantum cascade laser based on an n-i-p-i superlattice. IEEE Photonics Technology Letters, 2000, 12, 263-265.	1.3	11
169	336 μm single-mode quantum cascade laser with a dissipation below 250 mW. Optics Express, 2016, 24, 662.	1.7	11
170	Controlling and Phase-Locking a THz Quantum Cascade Laser Frequency Comb by Small Optical Frequency Tuning. Laser and Photonics Reviews, 2021, 15, 2000417.	4.4	11
171	Absolute frequency referencing in the long wave infrared using a quantum cascade laser frequency comb. Optics Express, 2022, 30, 12891.	1.7	11
172	Spectroscopic determination of the doping and mobility of terahertz quantum cascade structures. Journal of Applied Physics, 2009, 106, .	1.1	10
173	Anomalous Coulomb drag between bilayer graphene and a GaAs electron gas. New Journal of Physics, 2017, 19, 103042.	1.2	10
174	Multi-wavelength distributed feedback quantum cascade lasers for broadband trace gas spectroscopy. Semiconductor Science and Technology, 2019, 34, 083001.	1.0	10
175	Topological charge of finite-size photonic crystal modes. Physical Review B, 2020, 102, .	1.1	10
176	Coherently-averaged dual comb spectrometer at 7.7 μm with master and follower quantum cascade lasers. Optics Express, 2021, 29, 19126.	1.7	10
177	Frequency noise correlation between the offset frequency and the mode spacing in a mid-infrared quantum cascade laser frequency comb. Optics Express, 2020, 28, 8200.	1.7	10
178	Two-dimensional spectroscopy on a THz quantum cascade structure. Nanophotonics, 2020, 10, 171-180.	2.9	10
179	Mid-infrared quantum cascade laser frequency combs based on multi-section waveguides. Optics Letters, 2020, 45, 6462.	1.7	10
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