

# Mattias Beck

## List of Publications by Citations

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246  
papers

8,461  
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46  
h-index

83  
g-index

416  
ext. papers

10,239  
ext. citations

5.4  
avg, IF

5.88  
L-index

#	Paper	IF	Citations
246	Continuous wave operation of a mid-infrared semiconductor laser at room temperature. <i>Science</i> , <b>2002</b> , 295, 301-5	33.3	572
245	GaAs/AlxGa1-xAs quantum cascade lasers. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3486-3488	3.4	345
244	Ultrastrong coupling of the cyclotron transition of a 2D electron gas to a THz metamaterial. <i>Science</i> , <b>2012</b> , 335, 1323-6	33.3	334
243	Dipole coupling of a double quantum dot to a microwave resonator. <i>Physical Review Letters</i> , <b>2012</b> , 108, 046807	7.4	241
242	Gain without inversion in semiconductor nanostructures. <i>Nature Materials</i> , <b>2006</b> , 5, 175-178	27	218
241	Quantum-cascade lasers based on a bound-to-continuum transition. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 147-149	3.4	191
240	ac Stark splitting and quantum interference with intersubband transitions in quantum wells. <i>Physical Review Letters</i> , <b>2005</b> , 94, 157403	7.4	189
239	Bound-to-continuum and two-phonon resonance, quantum-cascade lasers for high duty cycle, high-temperature operation. <i>IEEE Journal of Quantum Electronics</i> , <b>2002</b> , 38, 533-546	2	167
238	External cavity quantum cascade laser tunable from 7.6 to 11.4 $\mu\text{m}$ . <i>Applied Physics Letters</i> , <b>2009</b> , 95, 061103	3.4	162
237	Octave-spanning semiconductor laser. <i>Nature Photonics</i> , <b>2015</b> , 9, 42-47	33.9	161
236	Low-divergence single-mode terahertz quantum cascade laser. <i>Nature Photonics</i> , <b>2009</b> , 3, 586-590	33.9	158
235	Ultrastrong coupling regime and plasmon polaritons in parabolic semiconductor quantum wells. <i>Physical Review Letters</i> , <b>2012</b> , 108, 106402	7.4	142
234	Low-bias active control of terahertz waves by coupling large-area CVD graphene to a terahertz metamaterial. <i>Nano Letters</i> , <b>2013</b> , 13, 3193-8	11.5	139
233	Far-infrared ( $88\ \mu\text{m}$ ) electroluminescence in a quantum cascade structure. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3724-3726	3.4	131
232	High-temperature operation of distributed feedback quantum-cascade lasers at 5.3 $\mu\text{m}$ . <i>Applied Physics Letters</i> , <b>2001</b> , 78, 396-398	3.4	128
231	Room-temperature nine- $\mu\text{m}$ -wavelength photodetectors and GHz-frequency heterodyne receivers. <i>Nature</i> , <b>2018</b> , 556, 85-88	50.4	124
230	Broadband tuning of external cavity bound-to-continuum quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1659-1661	3.4	123

229	Imaging with a Terahertz quantum cascade laser. <i>Optics Express</i> , <b>2004</b> , 12, 1879-84	3.3	118
228	Low-loss Al-free waveguides for unipolar semiconductor lasers. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 3911-3913	3.3	116
227	Bound-to-continuum terahertz quantum cascade laser with a single-quantum-well phonon extraction/injection stage. <i>New Journal of Physics</i> , <b>2009</b> , 11, 125022	2.9	115
226	Impulsive terahertz radiation with high electric fields from an amplifier-driven large-area photoconductive antenna. <i>Optics Express</i> , <b>2010</b> , 18, 9251-7	3.3	113
225	Quantum Cascade Laser Frequency Combs. <i>Nanophotonics</i> , <b>2016</b> , 5, 272-291	6.3	105
224	Thermoelectrically cooled THz quantum cascade laser operating up to 210 K. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 010601	3.4	104
223	Microcavity laser oscillating in a circuit-based resonator. <i>Science</i> , <b>2010</b> , 327, 1495-7	33.3	104
222	Terahertz emission from lateral photo-Dember currents. <i>Optics Express</i> , <b>2010</b> , 18, 4939-47	3.3	100
221	Ultrastrong coupling in the near field of complementary split-ring resonators. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	96
220	Continuous wave operation of a 9.3 $\mu\text{m}$ quantum cascade laser on a Peltier cooler. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1964-1966	3.4	92
219	Quantum-cascade-laser structures as photodetectors. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2683-2685	3.4	87
218	Energy-gap dynamics of superconducting NbN thin films studied by time-resolved terahertz spectroscopy. <i>Physical Review Letters</i> , <b>2011</b> , 107, 177007	7.4	83
217	Photoacoustic spectroscopy with quantum cascade distributed-feedback lasers. <i>Optics Letters</i> , <b>2001</b> , 26, 887-9	3	81
216	Irreversibility on the Level of Single-Electron Tunneling. <i>Physical Review X</i> , <b>2012</b> , 2,	9.1	73
215	Free-space optical data link using Peltier-cooled quantum cascade laser. <i>Electronics Letters</i> , <b>2001</b> , 37, 778	1.1	68
214	Surface-emitting 10.1 $\mu\text{m}$ quantum-cascade distributed feedback lasers. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 3769-3771	3.4	68
213	Low divergence Terahertz photonic-wire laser. <i>Optics Express</i> , <b>2010</b> , 18, 6390-5	3.3	61
212	Broadband THz lasing from a photon-phonon quantum cascade structure. <i>Optics Express</i> , <b>2010</b> , 18, 8043-52	3.3	61

211	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> , <b>2004</b> , 79, 907-913	1.9	61
210	Magneto-transport controlled by Landau polariton states. <i>Nature Physics</i> , <b>2019</b> , 15, 186-190	16.2	61
209	Dispersion engineering of quantum cascade laser frequency combs. <i>Optica</i> , <b>2016</b> , 3, 252	8.6	58
208	Mid-infrared quantum cascade lasers for flow injection analysis. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 1645-8	7.8	53
207	Evidence of linear chirp in mid-infrared quantum cascade lasers. <i>Optica</i> , <b>2018</b> , 5, 948	8.6	53
206	Quantum dot admittance probed at microwave frequencies with an on-chip resonator. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	51
205	Demonstration of high-performance 10.16 $\mu\text{m}$ quantum cascade distributed feedback lasers fabricated without epitaxial regrowth. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 665-667	3.4	51
204	Transient increase of the energy gap of superconducting NbN thin films excited by resonant narrow-band terahertz pulses. <i>Physical Review Letters</i> , <b>2013</b> , 110, 267003	7.4	49
203	Dynamics of ultra-broadband terahertz quantum cascade lasers for comb operation. <i>Optics Express</i> , <b>2015</b> , 23, 33270-94	3.3	49
202	Doping in quantum cascade lasers. I. InAlAs/InGaAs/InP midinfrared devices. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 043101	2.5	48
201	Ultra-broadband heterogeneous quantum cascade laser emitting from 2.2 to 3.2 THz. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 191104	3.4	47
200	Four-wave mixing in a quantum cascade laser amplifier. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 222104	3.4	46
199	Continuous-wave distributed-feedback quantum-cascade lasers on a Peltier cooler. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1929-1931	3.4	46
198	Long-wavelength ( $16 \mu\text{m}$ ), room-temperature, single-frequency quantum-cascade lasers based on a bound-to-continuum transition. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 4271-4273	3.4	45
197	Electrically tunable, high performance quantum cascade laser. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 141105	3.4	43
196	On-chip, self-detected terahertz dual-comb source. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 171104	3.4	43
195	Continuous-wave operation of far-infrared quantum cascade lasers. <i>Electronics Letters</i> , <b>2002</b> , 38, 1675	1.1	41
194	Room temperature terahertz polariton emitter. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 141118	3.4	40

193	Dual comb operation of $\Gamma$ -8.2 $\mu$ m quantum cascade laser frequency comb with 1 W optical power. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 141102	3.4	38
192	Short pulse generation and mode control of broadband terahertz quantum cascade lasers. <i>Optica</i> , <b>2016</b> , 3, 1087	8.6	38
191	Two-well quantum cascade laser optimization by non-equilibrium Green's function modelling. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 021104	3.4	37
190	On-chip dual-comb based on quantum cascade laser frequency combs. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 251104	3.4	37
189	Heterogeneous terahertz quantum cascade lasers exceeding 1.9 THz spectral bandwidth and featuring dual comb operation. <i>Nanophotonics</i> , <b>2018</b> , 7, 237-242	6.3	36
188	Retrieval of phase relation and emission profile of quantum cascade laser frequency combs. <i>Nature Photonics</i> , <b>2019</b> , 13, 562-568	33.9	35
187	Fully automatized quantum cascade laser design by genetic optimization. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 021103	3.4	35
186	Stand-alone system for high-resolution, real-time terahertz imaging. <i>Optics Express</i> , <b>2012</b> , 20, 2772-8	3.3	35
185	High frequency modulation of mid-infrared quantum cascade lasers embedded into microstrip line. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 181114	3.4	34
184	High power Sb-free quantum cascade laser emitting at 3.3 $\mu$ m above 350 K. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 191104	3.4	34
183	Strong light-matter coupling at terahertz frequencies at room temperature in electronic LC resonators. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 191107	3.4	34
182	Electrically tunable, room-temperature quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1509-1511	3.4	34
181	Electrically driven nanopillars for THz quantum cascade lasers. <i>Optics Express</i> , <b>2013</b> , 21, 10917-23	3.3	32
180	Mid-infrared frequency comb from a ring quantum cascade laser. <i>Optica</i> , <b>2020</b> , 7, 162	8.6	32
179	Injection locking of mid-infrared quantum cascade laser at 14 GHz, by direct microwave modulation. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 443-449	8.3	31
178	Buried heterostructure quantum cascade lasers with a large optical cavity waveguide. <i>IEEE Photonics Technology Letters</i> , <b>2000</b> , 12, 1450-1452	2.2	31
177	Few-Electron Ultrastrong Light-Matter Coupling at 300 GHz with Nanogap Hybrid LC Microcavities. <i>Nano Letters</i> , <b>2017</b> , 17, 7410-7415	11.5	30
176	Singlemode quantum cascade lasers with power dissipation below 1 W. <i>Electronics Letters</i> , <b>2012</b> , 48, 646	1.1	30

175	Chemical sensing with pulsed QC-DFB lasers operating at 15.6 micrometers. <i>Applied Physics B: Lasers and Optics</i> , <b>2002</b> , 75, 351-7	1.9	30
174	Measurement of far-infrared waveguide loss using a multisection single-pass technique. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1967-1969	3.4	30
173	RF-modulation of mid-infrared distributed feedback quantum cascade lasers. <i>Optics Express</i> , <b>2016</b> , 24, 3294-312	3.3	29
172	Detection of mid-IR radiation by sum frequency generation for free space optical communication. <i>Optics and Lasers in Engineering</i> , <b>2005</b> , 43, 537-544	4.6	28
171	High-resolution and gapless dual comb spectroscopy with current-tuned quantum cascade lasers. <i>Optics Express</i> , <b>2020</b> , 28, 6197-6208	3.3	28
170	Dual-wavelength quantum cascade laser for trace gas spectroscopy. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 161109	3.4	27
169	Step well quantum cascade laser emitting at 3 THz. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 041114	3.4	27
168	Broadband external cavity tuning in the 3-4 $\mu\text{m}$ window. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 031108	3.4	26
167	Complex-coupled photonic crystal THz lasers with independent loss and refractive index modulation. <i>Optics Express</i> , <b>2011</b> , 19, 10707-13	3.3	26
166	Scattering processes in terahertz InGaAs/InAlAs quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 221114	3.4	26
165	Far-Infrared Quantum Cascade Lasers Operating in the AlAs Phonon Reststrahlen Band. <i>ACS Photonics</i> , <b>2016</b> , 3, 2280-2284	6.3	26
164	Photoinduced melting of superconductivity in the high-Tc superconductor $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ probed by time-resolved optical and terahertz techniques. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	25
163	Digital alloy interface grading of an InAlAs/InGaAs quantum cascade laser structure studied by cross-sectional scanning tunneling microscopy. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4131-4133	3.4	24
162	Far-infrared emission and Stark-cyclotron resonances in a quantum-cascade structure based on photon-assisted tunneling transition. <i>Physical Review B</i> , <b>2000</b> , 61, 8369-8374	3.3	24
161	Surface emitting multi-wavelength array of single frequency quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 071104	3.4	23
160	Subcycle measurement of intensity correlations in the terahertz frequency range. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	23
159	Ultrastrong light-matter coupling at terahertz frequencies with split ring resonators and inter-Landau level transitions. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 136510	2.5	23
158	Influence of the growth temperature on the performances of strain-balanced quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 091105	3.4	23

157	Terahertz intersubband emission in strong magnetic fields. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 67-69	3.4	23
156	Spectroscopic study of the $\bar{1}$ band of SO <sub>2</sub> using a continuous-wave DFB QCL at 9.1 $\bar{m}$ . <i>Applied Physics B: Lasers and Optics</i> , <b>2003</b> , 77, 703-706	1.9	22
155	An electrically pumped phonon-polariton laser. <i>Science Advances</i> , <b>2019</b> , 5, eaau1632	14.3	21
154	Continuous tuning of terahertz distributed feedback quantum cascade laser by gas condensation and dielectric deposition. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 181113	3.4	21
153	Characterization of a microwave frequency resonator via a nearby quantum dot. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 262105	3.4	21
152	Free-running 9.1-microm distributed-feedback quantum cascade laser linewidth measurement by heterodyning with a C18O <sub>2</sub> laser. <i>Optics Letters</i> , <b>2003</b> , 28, 704-6	3	21
151	Gain measurements on GaAs-based quantum cascade lasers using a two-section cavity technique. <i>IEEE Journal of Quantum Electronics</i> , <b>2000</b> , 36, 736-741	2	21
150	Electrically tunable terahertz quantum cascade lasers based on a two-sections interdigitated distributed feedback cavity. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 131107	3.4	20
149	Tunable dispersion compensation of quantum cascade laser frequency combs. <i>Optics Letters</i> , <b>2018</b> , 43, 1746-1749	3	20
148	Superconducting complementary metasurfaces for THz ultrastrong light-matter coupling. <i>New Journal of Physics</i> , <b>2014</b> , 16, 033005	2.9	20
147	Spectral gain profile of a multi-stack terahertz quantum cascade laser. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 181118	3.4	20
146	Photon-Driven Broadband Emission and Frequency Comb RF Injection Locking in THz Quantum Cascade Lasers. <i>ACS Photonics</i> , <b>2020</b> , 7, 784-791	6.3	19
145	Double metal waveguide InGaAs/AlInAs quantum cascade lasers emitting at 24 $\bar{m}$ . <i>Applied Physics Letters</i> , <b>2014</b> , 105, 121115	3.4	19
144	Sb-free quantum cascade lasers in the 3 $\bar{4}$ $\bar{m}$ spectral range. <i>Semiconductor Science and Technology</i> , <b>2012</b> , 27, 045013	1.8	19
143	Quantum cascade laser in a master oscillator power amplifier configuration with Watt-level optical output power. <i>Optics Express</i> , <b>2013</b> , 21, 19180-6	3.3	19
142	Quantum cascade lasers for open- and closed-path measurement of trace gases <b>2002</b> , 4817, 22		19
141	Room-Temperature, Wide-Band, Quantum Well Infrared Photodetector for Microwave Optical Links at 4.9 $\bar{m}$ Wavelength. <i>ACS Photonics</i> , <b>2018</b> , 5, 3689-3694	6.3	18
140	Electrical laser frequency tuning by three terminal terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 011107	3.4	18

139	CO <sub>2</sub> isotope sensor using a broadband infrared source, a spectrally narrow 4.4 $\mu\text{m}$ quantum cascade detector, and a Fourier spectrometer. <i>Applied Physics B: Lasers and Optics</i> , <b>2011</b> , 103, 967-970	1.9	18
138	Coupling terahertz radiation between sub-wavelength metal-metal waveguides and free space using monolithically integrated horn antennae. <i>Optics Express</i> , <b>2009</b> , 17, 18387-93	3.3	18
137	Low-frequency noise properties of selectively dry etched InP HEMTs. <i>IEEE Transactions on Electron Devices</i> , <b>1998</b> , 45, 1219-1225	2.9	18
136	Experimental observation of the de Haas-van Alphen effect in a multiband quantum-well sample. <i>Physical Review B</i> , <b>1999</b> , 60, R11277-R11280	3.3	18
135	A patch-array antenna single-mode low electrical dissipation continuous wave terahertz quantum cascade laser. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 201103	3.4	18
134	Continuous-wave vertically emitting photonic crystal terahertz laser. <i>Laser and Photonics Reviews</i> , <b>2013</b> , 7, L45-L50	8.3	17
133	Characterization of Si volume- and delta-doped InGaAs grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 093710	2.5	17
132	Magnetically assisted quantum cascade laser emitting from 740 GHz to 1.4 THz. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 081110	3.4	17
131	Ozone detection by differential absorption spectroscopy at ambient pressure with a 9.6 $\mu\text{m}$ pulsed quantum-cascade laser. <i>Applied Physics B: Lasers and Optics</i> , <b>2004</b> , 78, 249-256	1.9	17
130	. <i>IEEE Journal of Quantum Electronics</i> , <b>2001</b> , 37, 448-455	2	17
129	Gain dynamics in a heterogeneous terahertz quantum cascade laser. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 181102	3.4	17
128	High-Power Growth-Robust InGaAs/InAlAs Terahertz Quantum Cascade Lasers. <i>ACS Photonics</i> , <b>2017</b> , 4, 957-962	6.3	16
127	Performance of the solid deuterium ultra-cold neutron source at the pulsed reactor TRIGA Mainz. <i>European Physical Journal A</i> , <b>2014</b> , 50, 1	2.5	16
126	Terahertz quantum cascade lasers based on quaternary AlInGaAs barriers. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 041103	3.4	16
125	Dispersion in a broadband terahertz quantum cascade laser. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 221107	3.4	16
124	Electrically pumped Terahertz quantum well sources. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 44-47	3	15
123	InGaAs/AlInGaAs THz quantum cascade lasers operating up to 195 K in strong magnetic field. <i>New Journal of Physics</i> , <b>2015</b> , 17, 023050	2.9	14
122	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> , <b>2000</b> , 7, 33-38	3	14



121	. <i>IEEE Photonics Technology Letters</i> , <b>2000</b> , 12, 1610-1612	2.2	14
120	Room temperature surface emission on large-area photonic crystal quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 031102	3-4	13
119	Purcell effect in the inductor-capacitor laser. <i>Optics Letters</i> , <b>2011</b> , 36, 2623-5	3	13
118	Terahertz quantum cascade lasers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2004</b> , 362, 215-29; discussion 229-31	3	13
117	Large area photonic crystal quantum cascade laser with 5 W surface-emitting power. <i>Optics Express</i> , <b>2019</b> , 27, 22708-22716	3-3	13
116	Dual-Section DFB-QCLs for Multi-Species Trace Gas Analysis. <i>Photonics</i> , <b>2016</b> , 3, 24	2.2	13
115	Integrated patch and slot array antenna for terahertz quantum cascade lasers at 4.7 THz. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 161102	3-4	12
114	Loss mechanisms of quantum cascade lasers operating close to optical phonon frequencies. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 102407	2.5	12
113	Second harmonic generation in (111)-oriented InP-based quantum cascade laser. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 103107	2.5	12
112	High performance 4.7 THz GaAs quantum cascade lasers based on four quantum wells. <i>New Journal of Physics</i> , <b>2016</b> , 18, 123004	2.9	12
111	Self-starting harmonic comb emission in THz quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 131112	3-4	12
110	Dual-comb spectroscopy using plasmon-enhanced-waveguide dispersion-compensated quantum cascade lasers. <i>Optics Letters</i> , <b>2018</b> , 43, 4522	3	12
109	Landau polaritons in highly nonparabolic two-dimensional gases in the ultrastrong coupling regime. <i>Physical Review B</i> , <b>2020</b> , 101,	3-3	11
108	Influence of DX centers on the performance of unipolar semiconductor lasers based on GaAs-Al/sub x/Ga/sub 1-x/As. <i>IEEE Photonics Technology Letters</i> , <b>1999</b> , 11, 1090-1092	2.2	11
107	Dual-wavelength DFB quantum cascade lasers: sources for multi-species trace gas spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , <b>2018</b> , 124, 1	1.9	11
106	Polaritonic nonlocality in light-matter interaction. <i>Nature Photonics</i> , <b>2021</b> , 15, 690-695	33-9	11
105	Progress in Quantum Cascade Lasers. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2008</b> , 171-192	0.2	11
104	Intensity autocorrelation measurements of frequency combs in the terahertz range. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	10

103	Coupled-Waveguides for Dispersion Compensation in Semiconductor Lasers. <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1700323	8.3	10
102	3.36 $\mu\text{m}$ single-mode quantum cascade laser with a dissipation below 250 mW. <i>Optics Express</i> , <b>2016</b> , 24, 662-71	3.3	10
101	Room-temperature transverse-electric polarized intersubband electroluminescence from InAs/AlInAs quantum dashes. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 261113	3.4	10
100	Midinfrared electroluminescence from InAs/InP quantum dashes. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 221109	3.4	10
99	Optimization of sample-chip design for stub-matched radio-frequency reflectometry measurements. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 042112	3.4	10
98	Investigation of coherent acoustic phonons in terahertz quantum cascade laser structures using femtosecond pump-probe spectroscopy. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 033517	2.5	9
97	Direct surface cyclotron resonance terahertz emission from a quantum cascade structure. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 102103	3.4	9
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