

Mattias Beck

List of Publications by Year in descending order

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413
papers

11,432
citations

28190

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h-index

35952

97
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416
all docs

416
docs citations

416
times ranked

5538
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-low threshold lasing through phase front engineering via a metallic circular aperture. Nature Communications, 2022, 13, 230.	5.8	4
2	Monolithic Integration of Mid-Infrared Quantum Cascade Lasers and Frequency Combs with Passive Waveguides. ACS Photonics, 2022, 9, 426-431.	3.2	9
3	Absolute frequency referencing in the long wave infrared using a quantum cascade laser frequency comb. Optics Express, 2022, 30, 12891.	1.7	11
4	Mid-infrared femtosecond pulses from a quantum cascade laser. , 2022, , .		0
5	Breakdown of topological protection by cavity vacuum fields in the integer quantum Hall effect. Science, 2022, 375, 1030-1034.	6.0	57
6	Dissipative Kerr solitons in semiconductor ring lasers. Nature Photonics, 2022, 16, 142-147.	15.6	45
7	Exceptional point singularities in multi-section DFB lasers. New Journal of Physics, 2022, 24, 053047.	1.2	1
8	An ultrastrongly coupled single terahertz meta-atom. Nature Communications, 2022, 13, 2528.	5.8	20
9	Interdash Coupling within Dense Ensembles of Quantum Dashes: Comparison of \ln As		

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19	Bound-to-continuum Non-perturbative Regime for an Ultrastong Light-matter Coupling. , 2021, , .		0
20	Mid-infrared quantum cascade laser frequency combs with a microstrip-like line waveguide geometry. Applied Physics Letters, 2021, 118, .	1.5	24
21	Self-starting harmonic comb emission in THz quantum cascade lasers. Applied Physics Letters, 2021, 118, .	1.5	32
22	THz intersubband electroluminescence from n-type Ge/SiGe quantum cascade structures. Applied Physics Letters, 2021, 118, .	1.5	15
23	Controlling and Phaseâ€œLocking a THz Quantum Cascade Laser Frequency Comb by Small Optical Frequency Tuning. Laser and Photonics Reviews, 2021, 15, 2000417.	4.4	11
24	Frequency Control of a Mid-Infrared Quantum Cascade Laser Frequency Comb by Near-Infrared Light Injection and Intensity Modulation. , 2021, , .		1
25	Ultra-low Threshold Quantum Cascade Laser. , 2021, , .		0
26	Linewidth Enhancement Factor of Mid-IR Quantum Cascade Lasers. , 2021, , .		1
27	Coherent mid-infrared dual-comb spectroscopy enabled by optical injection locking of quantum cascade laser frequency combs. , 2021, , .		0
28	Coherent Broadening and Tuning of QCL Frequency Combs via RF-Injection. , 2021, , .		0
29	Terahertz intersubband electroluminescence from n-type germanium quantum wells. , 2021, , .		0
30	Coherently-averaged dual comb spectrometer at 7.7â€œ..Âµm with master and follower quantum cascade lasers. Optics Express, 2021, 29, 19126.	1.7	10
31	Demonstration of a Resonantly Amplified Terahertz Quantum Cascade Detector. , 2021, , .		0
32	Breakdown of polaritons in ultrastrongly coupled nanophotonic systems. , 2021, , .		0
33	A Broadband Suspended Hollow Vivaldi Antenna for THz Quantum Cascade Lasers. , 2021, , .		0
34	THz Quantum Cascade Laser Frequency Comb based on a Y-coupled Planarized Waveguide. , 2021, , .		0
35	Shifted Wave Interference Fourier Transform Spectroscopy of THz Quantum Cascade Laser Frequency Combs operating above 70 K. , 2021, , .		0
36	Spectra Characterization of Ring Quantum Cascade lasers. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
37	Pure and Self-starting Harmonic Combs in THz Quantum Cascade Lasers: Theory and Experiments. , 2021, , .		0
38	Polaritonic nonlocality in lightâ€matter interaction. Nature Photonics, 2021, 15, 690-695.	15.6	36
39	THz Ultrastrong Coupling in an Engineered Fabryâ€Perot Cavity. ACS Photonics, 2021, 8, 2692-2698.	3.2	17
40	Femtosecond pulses from a mid-infrared quantum cascade laser. , 2021, , .		0
41	Ultra-low Threshold Quantum Cascade Laser. , 2021, , .		1
42	Y-coupled planarized waveguide THz quantum cascade laser frequency comb. , 2021, , .		0
43	Breakdown of Polaritons in Nanophotonic Systems. , 2021, , .		0
44	Resonant Amplification Enhanced Terahertz Quantum Cascade Detection. , 2021, , .		0
45	FM to AM Transition of RF Driven THz QCL Comb States. , 2021, , .		0
46	Regenerative terahertz quantum detectors. APL Photonics, 2021, 6, .	3.0	14
47	Frequency Comb Operation of a Y-Coupled Planarized THz Quantum Cascade Laser. , 2021, , .		0
48	THz Intersubband Emitter based on Silicon. , 2021, , .		0
49	Shifted Wave Interference Fourier Transform Spectroscopy of Harmonic and Fundamental RF Injection-Locked THz Quantum Cascade Laser Frequency Combs. , 2021, , .		0
50	Direct measurement of the linewidth enhancement factor of distributed feedback mid-IR QCLs. , 2021, , .		0
51	Terahertz Quantum Cascade Detection Through Regenerative Amplification. , 2021, , .		0
52	Controlling Quantum Cascade Laser Optical Frequency Combs through Microwave Injection. Laser and Photonics Reviews, 2021, 15, 2100242.	4.4	23
53	Femtosecond pulses from a mid-infrared quantum cascade laser. Nature Photonics, 2021, 15, 919-924.	15.6	42
54	Femtosecond pulses from a mid-infrared quantum cascade laser. , 2021, , .		0

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55	Mixing Properties of Room Temperature Patch Antenna Receivers in a Mid-Infrared ($\lambda = 9\ \mu\text{m}$) Heterodyne System. Laser and Photonics Reviews, 2020, 14, 1900207.	4.4	12
56	Topological charge of finite-size photonic crystal modes. Physical Review B, 2020, 102, .	1.1	10
57	Landau polaritons in highly nonparabolic two-dimensional gases in the ultrastrong coupling regime. Physical Review B, 2020, 101, .	1.1	27
58	RF Injection of THz QCL Combs at 80 K Emitting over 700 GHz Spectral Bandwidth. Photonics, 2020, 7, 9.	0.9	14
59	Photon-Driven Broadband Emission and Frequency Comb RF Injection Locking in THz Quantum Cascade Lasers. ACS Photonics, 2020, 7, 784-791.	3.2	44
60	An antipodal Vivaldi antenna for improved far-field properties and polarization manipulation of broadband terahertz quantum cascade lasers. Applied Physics Letters, 2020, 116, .	1.5	7
61	High-resolution and gapless dual comb spectroscopy with current-tuned quantum cascade lasers. Optics Express, 2020, 28, 6197.	1.7	53
62	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
63	Mid-infrared frequency comb from a ring quantum cascade laser. Optica, 2020, 7, 162.	4.8	60
64	Two-dimensional spectroscopy on a THz quantum cascade structure. Nanophotonics, 2020, 10, 171-180.	2.9	10
65	Mid-Infrared Frequency Comb from a Ring Quantum Cascade Laser. , 2020, , .		1
66	Ridge-width dependence of the dispersion and performance of mid-infrared quantum cascade laser frequency combs. , 2020, , .		1
67	Broadband THz quantum cascade lasers frequency combs: high temperature operation and harmonic state. , 2020, , .		0
68	10.1063/5.0004038.1. , 2020, , .		0
69	Mid-infrared quantum cascade laser frequency combs based on multi-section waveguides. Optics Letters, 2020, 45, 6462.	1.7	10
70	Post-processing GHz-level frequency tuning of THz Quantum Cascade Lasers. , 2020, , .		0
71	Terahertz quantum cascade laser frequency comb operation of a coupled waveguide array. , 2020, , .		0
72	2D - THz-Spectroscopy on a Quantum Cascade Structure. , 2020, , .		0

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73	Microelectromechanical control of the state of quantum cascade laser frequency combs. Applied Physics Letters, 2019, 115, 021105.	1.5	6
74	An electrically pumped phonon-polariton laser. Science Advances, 2019, 5, eaau1632.	4.7	36
75	Multi-wavelength distributed feedback quantum cascade lasers for broadband trace gas spectroscopy. Semiconductor Science and Technology, 2019, 34, 083001.	1.0	10
76	Thermoelectrically cooled THz quantum cascade laser operating up to 210â€‰%K. Applied Physics Letters, 2019, 115, .	1.5	178
77	Homogeneous, Bound-to-Continuum THz QCL Active Region Design Featuring 1.65 THz Emission Bandwidth in CW. , 2019, , .		0
78	Optimization and Fabrication of Two-Quantum Well THz QCLs Operating above 200 K. , 2019, , .		1
79	Magneto-transport of 2DEGs ultrastrongly coupled to vacuum fields. , 2019, , .		0
80	Inhomogeneous Broadening of a Polaritonic Mode in the Ultrastrong Coupling Regime. , 2019, , .		0
81	A Broadband Polarization-Rotating Vivaldi Antenna for Beam Focusing of Terahertz Quantum Cascade Lasers. , 2019, , .		0
82	Mid-Infrared Frequency Comb from a Ring Quantum Cascade Laser. , 2019, , .		0
83	Gain dynamics in THz QCLs and its implication for THz comb sources. , 2019, , .		0
84	Room temperature surface emission on large-area photonic crystal quantum cascade lasers. Applied Physics Letters, 2019, 114, .	1.5	26
85	Retrieval of phase relation and emission profile of quantum cascade laser frequency combs. Nature Photonics, 2019, 13, 562-568.	15.6	76
86	The Upper Branch Broadening in Ultrastrongly Coupled THz Landau Polaritons. , 2019, , .		1
87	Low RF-Power Injection-Locking and Beatnote Control of Terahertz Quantum Cascade Laser Frequency Combs. , 2019, , .		0
88	Low-Loss RF Cavity for Quantum Cascade Laser Frequency Combs. , 2019, , .		0
89	Large Area Surface-Emitting Photonic Crystal Quantum Cascade Laser. , 2019, , .		1
90	Retrieving the Phase Relation of a Quantum Cascade Laser Frequency Comb and Reconstructing its Emission Profile. , 2019, , .		0

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91	Dispersion measurements of Terahertz Quantum Cascade Fabry-Pérot cavities and VECSELS. , 2019, , .		0
92	1.65 THz Spanning Homogeneous THz Quantum Cascade Laser: Comb Operation and Injection Locking. , 2019, , .		0
93	A broadband polarization-rotating antipodal Vivaldi antenna for improved far-field properties of terahertz quantum cascade lasers. , 2019, , .		0
94	Magneto-transport controlled by Landau polariton states. Nature Physics, 2019, 15, 186-190.	6.5	115
95	Pulses from a mid-infrared quantum cascade laser frequency comb using an external compressor. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1676.	0.9	15
96	Large area photonic crystal quantum cascade laser with 5 W surface-emitting power. Optics Express, 2019, 27, 22708.	1.7	29
97	Optomechanical Control of the State of Chip-Scale Frequency Combs. , 2019, , .		0
98	Heterogeneous THz quantum cascade lasers: Gain recovery dynamics study. , 2019, , .		0
99	Optimization and fabrication of two-quantum well THz QCLs operating above 200 K. , 2019, , .		0
100	Optomechanical control of quantum cascade laser frequency combs. , 2019, , .		0
101	Two-well quantum cascade laser optimization by non-equilibrium Green's function modelling. Applied Physics Letters, 2018, 112, .	1.5	53
102	Coupled Waveguides for Dispersion Compensation in Semiconductor Lasers. Laser and Photonics Reviews, 2018, 12, 1700323.	4.4	23
103	Room-temperature nine-Åµm-wavelength photodetectors and GHz-frequency heterodyne receivers. Nature, 2018, 556, 85-88.	13.7	197
104	Heterogeneous terahertz quantum cascade lasers exceeding 1.9 THz spectral bandwidth and featuring dual comb operation. Nanophotonics, 2018, 7, 237-242.	2.9	49
105	High-T _c superconducting metasurfaces for ultra-strong coupling experiments at THz frequencies. , 2018, , .		0
106	Broadband On-Chip Thz Frequency Combs. , 2018, , .		0
107	Gain dynamics in a heterogeneous terahertz quantum cascade laser. Applied Physics Letters, 2018, 113, .	1.5	25
108	Gain recovery dynamics in broadband terahertz quantum cascade lasers. , 2018, , .		0

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127	Intensity autocorrelation measurements of frequency combs in the terahertz range. Physical Review A, 2017, 96, .	1.0	14
128	Asymmetry in polariton dispersion as function of light and matter frequencies in the ultrastrong coupling regime. New Journal of Physics, 2017, 19, 043022.	1.2	8
129	Gate and magnetic field tunable ultrastrong coupling between a magnetoplasmon and the optical mode of an LC cavity. Physical Review B, 2017, 95, .	1.1	14
130	Anomalous Coulomb drag between bilayer graphene and a GaAs electron gas. New Journal of Physics, 2017, 19, 103042.	1.2	10
131	Waveguide Embedding of a Double-Metal 1.9-THz Quantum Cascade Laser: Design, Manufacturing, and Results. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 609-613.	2.0	2
132	Broadband monolithic extractor for metal-metal waveguide based terahertz quantum cascade laser frequency combs. Applied Physics Letters, 2017, 111, 021106.	1.5	9
133	Electric field and intensity correlations of a terahertz comb based on fast electro-optic sampling (Conference Presentation). , 2017, , .		0
134	Few-Electron Ultrastrong Light-Matter Coupling at 300 GHz with Nanogap Hybrid LC Microcavities. Nano Letters, 2017, 17, 7410-7415.	4.5	57
135	Upgrade of the ultracold neutron source at the pulsed reactor TRIGA Mainz. European Physical Journal A, 2017, 53, 1.	1.0	12
136	Short pulse generation and high power emission of Quantum Cascade lasers. , 2017, , .		0
137	Amplitude modulation in terahertz frequency combs. , 2017, , .		0
138	Terahertz quantum cascade lasers frequency combs: Wide bandwidth operation and dual-comb on a chip. , 2017, , .		0
139	Dual-wavelength DFB quantum cascade lasers for NO and NO ₂ trace gas analysis. , 2017, , .		0
140	Mode stabilization in quantum cascade lasers via an intra-cavity cascaded nonlinearity. Optics Express, 2017, 25, 1847.	1.7	2
141	Probing and controlling the comb features of a THz QCL. , 2017, , .		0
142	Dual comb operation of $\lambda = 8.2$ μm quantum cascade laser frequency comb with 1 W optical power. Applied Physics Letters, 2017, 111, .	1.5	68
143	Patch array antenna coupling of THz source and detector. , 2017, , .		1
144	On the lateral decomposition, growth mode and defect nucleation in the In _x Ga _{1-x} As channel of HEMT devices depending on the growth temperature, well thickness and mismatch. , 2017, , 491-494.		0

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145	Advanced Fabrication of Single-Mode and Multi-Wavelength MIR-QCLs. Photonics, 2016, 3, 26.	0.9	16
146	Dual-Section DFB-QCLs for Multi-Species Trace Gas Analysis. Photonics, 2016, 3, 24.	0.9	22
147	Dispersion engineering of quantum cascade laser frequency combs. Optica, 2016, 3, 252.	4.8	76
148	Negative free carrier absorption in terahertz quantum cascade lasers. Applied Physics Letters, 2016, 108, .	1.5	5
149	Dispersion in a broadband terahertz quantum cascade laser. Applied Physics Letters, 2016, 109, .	1.5	22
150	Analysis of dual-section DFB-QCLs for spectroscopic applications. , 2016, , .		0
151	Pulse generation and spectral optimization of broadband terahertz quantum cascade lasers. , 2016, , .		1
152	On-chip terahertz dual-comb source based on quantum cascade lasers. , 2016, , .		0
153	Broadband monolithic extractor for terahertz quantum cascade laser based frequency combs. , 2016, , .		0
154	THz quantum cascade amplifier for remote sensing applications. , 2016, , .		0
155	High performance 4.7 THz GaAs quantum cascade lasers based on four quantum wells. New Journal of Physics, 2016, 18, 123004.	1.2	21
156	On-chip, self-detected terahertz dual-comb source. Applied Physics Letters, 2016, 108, .	1.5	77
157	Far-Infrared Quantum Cascade Lasers Operating in the AlAs Phonon Reststrahlen Band. ACS Photonics, 2016, 3, 2280-2284.	3.2	34
158	A patch-array antenna single-mode low electrical dissipation continuous wave terahertz quantum cascade laser. Applied Physics Letters, 2016, 109, .	1.5	39
159	Gate tunable magneto-plasmon ultrastrongly coupled to LC cavity. , 2016, , .		0
160	Measuring photon statistics in the terahertz domain. , 2016, , .		0
161	Ultrastrong light-matter coupling at 300 GHz with few (<80) electrons. , 2016, , .		0
162	Rf-modulation of mid-infrared distributed feedback quantum cascade lasers. Optics Express, 2016, 24, 3294.	1.7	44

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163	Quantum Cascade Laser Frequency Combs. <i>Nanophotonics</i> , 2016, 5, 272-291.	2.9	171
164	Room temperature operation of a deep etched buried heterostructure photonic crystal quantum cascade laser. <i>Laser and Photonics Reviews</i> , 2016, 10, 843-848.	4.4	8
165	Short pulse generation and mode control of broadband terahertz quantum cascade lasers. <i>Optica</i> , 2016, 3, 1087.	4.8	62
166	A novel patch-array antenna single-mode low electrical dissipation continuous wave Terahertz Quantum Cascade Laser. , 2016, , .		2
167	Subcycle measurement of intensity correlations in the terahertz frequency range. <i>Physical Review A</i> , 2016, 93, .	1.0	35
168	Strain-Compensated InGaAs Terahertz Quantum Cascade Lasers. <i>ACS Photonics</i> , 2016, 3, 2297-2302.	3.2	7
169	336 Åµm single-mode quantum cascade laser with a dissipation below 250 mW. <i>Optics Express</i> , 2016, 24, 662.	1.7	11
170	Measuring intensity correlations of a THz quantum cascade laser around its threshold at sub-cycle timescales. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
171	Ultrastrong light-matter-coupling at 250 GHz. , 2016, , .		0
172	Single-Mode Quantum Cascade Laser Array Emitting From a Single Facet. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1197-1200.	1.3	7
173	Buried Heterostructure Photonic Crystal Quantum Cascade Laser: Towards 2D Large-area Single-mode Operation. , 2016, , .		0
174	Dynamics of ultra-broadband terahertz quantum cascade lasers for comb operation. , 2016, , .		0
175	Spin pairs in a weakly coupled many-electron quantum dot. <i>Physical Review B</i> , 2015, 92, .	1.1	3
176	On-chip dual-comb based on quantum cascade laser frequency combs. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	51
177	Dynamics of ultra-broadband terahertz quantum cascade lasers for comb operation. <i>Optics Express</i> , 2015, 23, 33270.	1.7	70
178	Continuously tunable ultrastrong light-matter interaction. , 2015, , .		1
179	Broadband terahertz amplification in a heterogeneous quantum cascade laser. <i>Optics Express</i> , 2015, 23, 3117.	1.7	13
180	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

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181	Hydride vapour phase epitaxy assisted buried heterostructure quantum cascade lasers for sensing applications. , 2015, , .		2
182	Octave-spanning THz quantum cascade laser. , 2015, , .		0
183	Surface emitting multi-wavelength array of single frequency quantum cascade lasers. Applied Physics Letters, 2015, 106, .	1.5	27
184	Electrically tunable terahertz quantum cascade lasers based on a two-sections interdigitated distributed feedback cavity. Applied Physics Letters, 2015, 106, .	1.5	26
185	Room Temperature Operation of a Photonic Crystal Quantum Cascade Laser. , 2015, , .		0
186	Surface emitting, single-mode quantum cascade laser array. , 2015, , .		0
187	Octave-spanning semiconductor laser. Nature Photonics, 2015, 9, 42-47.	15.6	240
188	Amplification of broadband terahertz pulses in a quantum cascade heterostructure. , 2015, , .		0
189	Dual-wavelength quantum cascade laser for trace gas spectroscopy. Applied Physics Letters, 2014, 105, .	1.5	40
190	Superconducting complementary metasurfaces for THz ultrastrong light-matter coupling. New Journal of Physics, 2014, 16, 033005.	1.2	24
191	Distributed-feedback quantum cascade laser emitting at $32\frac{1}{4}\mu\text{m}$. Optics Express, 2014, 22, 2111.	1.7	12
192	Terahertz intersubband polariton tuning by electrical gating. Optics Express, 2014, 22, 2126.	1.7	5
193	Spectral gain profile of a multi-stack terahertz quantum cascade laser. Applied Physics Letters, 2014, 105, .	1.5	30
194	Double metal waveguide InGaAs/AlInAs quantum cascade lasers emitting at $24\frac{1}{4}\mu\text{m}$. Applied Physics Letters, 2014, 105, .	1.5	25
195	Ultrastrong coupling in the near field of complementary split-ring resonators. Physical Review B, 2014, 90, .	1.1	140
196	Electrical laser frequency tuning by three terminal terahertz quantum cascade lasers. Applied Physics Letters, 2014, 104, 011107.	1.5	19
197	Injection locking of midâ€infrared quantum cascade laser at 14 GHz, by direct microwave modulation. Laser and Photonics Reviews, 2014, 8, 443-449.	4.4	44
198	Integrated patch and slot array antenna for terahertz quantum cascade lasers at 4.7 THz. Applied Physics Letters, 2014, 104, .	1.5	23

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199	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
200	Continuous-wave vertically emitting photonic crystal terahertz laser. Laser and Photonics Reviews, 2013, 7, L45.	4.4	28
201	Terahertz LC Microcavities: From Quantum Cascade Lasers to Ultrastrong Light-Matter Coupling. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 393-404.	1.2	3
202	Terahertz quantum cascade lasers based on quaternary AlInGaAs barriers. Applied Physics Letters, 2013, 103, 041103.	1.5	18
203	Transient Increase of the Energy Gap of Superconducting NbN Thin Films Excited by Resonant Narrow-Band Terahertz Pulses. Physical Review Letters, 2013, 110, 267003.	2.9	68
204	High frequency modulation of mid-infrared quantum cascade lasers embedded into microstrip line. Applied Physics Letters, 2013, 102, .	1.5	44
205	Terahertz photonic crystal quantum cascade laser coupled to a second order Bragg vertical extractor. , 2013, , .		0
206	EC tuning of a two color QCL active region design in the 3 to 4 μm region. , 2013, , .		0
207	High power terahertz quantum cascade laser at 63 µm. , 2013, , .		0
208	Transverse-electric polarized intersubband electroluminescence from quantum cascade structures based on InAs/AlInAs quantum dashes. , 2013, , .		0
209	Distributed-Feedback Quantum Cascade Laser at 3.2 μm. , 2013, , .		0
210	Test of the fluctuation theorem for single-electron transport. Journal of Applied Physics, 2013, 113, 136507.	1.1	7
211	Terahertz intersubband electroluminescence from InAs quantum cascade light emitting structures. Applied Physics Letters, 2013, 102, 141113.	1.5	1
212	Synchrotron infrared transmission spectroscopy of a quantum cascade laser correlated to gain models. Applied Physics Letters, 2013, 102, 012112.	1.5	7
213	Interaction of single-layer CVD graphene with a metasurface of terahertz split-ring resonators. Proceedings of SPIE, 2013, , .	0.8	1
214	Four-wave mixing in a quantum cascade laser amplifier. Applied Physics Letters, 2013, 102, .	1.5	68
215	Ultrastrong light-matter coupling at terahertz frequencies with split ring resonators and inter-Landau level transitions. Journal of Applied Physics, 2013, 113, 136510.	1.1	29
216	Low-Bias Active Control of Terahertz Waves by Coupling Large-Area CVD Graphene to a Terahertz Metamaterial. Nano Letters, 2013, 13, 3193-3198.	4.5	163

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217	Broadband external cavity tuning in the 3-4 μm window. Applied Physics Letters, 2013, 103, .	1.5	33
218	High frequency modulation of Mid-InfraRed Quantum Cascade Laser embedded into a micro-strip line. , 2013, , .		0
219	Ultra-broadband THz quantum cascade laser operating with regular comb teeth in continuous wave operation. , 2013, , .		0
220	Electrically driven nanopillars for THz quantum cascade lasers. Optics Express, 2013, 21, 10917.	1.7	61
221	Quantum cascade laser in a master oscillator power amplifier configuration with Watt-level optical output power. Optics Express, 2013, 21, 19180.	1.7	25
222	Physical Origin of Frequency Noise and Linewidth in Mid-IR DFB Quantum Cascade Lasers. , 2013, , .		2
223	Influence of resonator design on ultrastrong coupling between a two-dimensional electron gas and a THz metamaterial. Proceedings of SPIE, 2013, , .	0.8	2
224	Broadband homogeneous quantum cascade laser emitting at 2.3 THz. , 2013, , .		0
225	Properties and origin of frequency noise in Mid-IR distributed feedback Quantum Cascade Lasers. , 2013, , .		0
226	Ultrastrong light-matter coupling between high-mobility 2DEG and superconducting THz metasurfaces. , 2013, , .		0
227	Ultrafast leak detection of hydrocarbons using a 3.3 μm Fabry-Perot quantum cascade laser. , 2013, , .		0
228	Recent progress on single-mode quantum cascade lasers. , 2013, , .		1
229	InGaAs/AlInGaAs THz quantum cascade lasers. , 2013, , .		0
230	Continuous tuning of terahertz distributed feedback quantum cascade laser by gas condensation and dielectric deposition. Applied Physics Letters, 2013, 102, .	1.5	25
231	Quantum dot occupation and electron dwell time in the cotunneling regime. New Journal of Physics, 2012, 14, 083003.	1.2	5
232	Stand-alone system for high-resolution, real-time terahertz imaging. Optics Express, 2012, 20, 2772.	1.7	44
233	Novel injector schemes for Mid-Infrared Quantum Cascade lasers, toward the genetic optimization of the laser design. , 2012, , .		0
234	Irreversibility on the Level of Single-Electron Tunneling. Physical Review X, 2012, 2, .	2.8	85

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235	Optimization of sample-chip design for stub-matched radio-frequency reflectometry measurements. Applied Physics Letters, 2012, 101, 042112.	1.5	12
236	Portable real-time THz imaging setup based on QC lasers. , 2012, , .		0
237	Three Operation Modes for Tb/s All-Optical Switching With Intersubband Transitions in InGaAs/AlAs/AlAsSb Quantum Wells. IEEE Journal of Quantum Electronics, 2012, 48, 885-890.	1.0	7
238	Quantum dot admittance probed at microwave frequencies with an on-chip resonator. Physical Review B, 2012, 86, .	1.1	56
239	Mid-infrared quantum cascade lasers combs for spectroscopy. , 2012, , .		0
240	Investigation of coherent acoustic phonons in terahertz quantum cascade laser structures using femtosecond pump-probe spectroscopy. Journal of Applied Physics, 2012, 112, 033517.	1.1	13
241	Direct surface cyclotron resonance terahertz emission from a quantum cascade structure. Applied Physics Letters, 2012, 100, .	1.5	9
242	Room-temperature transverse-electric polarized intersubband electroluminescence from InAs/AlInAs quantum dashes. Applied Physics Letters, 2012, 101, 261113.	1.5	12
243	Room temperature terahertz polariton emitter. Applied Physics Letters, 2012, 101, .	1.5	50
244	Singlemode quantum cascade lasers with power dissipation below 1â€.W. Electronics Letters, 2012, 48, 646.	0.5	42
245	Dipole Coupling of a Double Quantum Dot to a Microwave Resonator. Physical Review Letters, 2012, 108, 046807.	2.9	287
246	Surface emitting Terahertz Photonic Crystal Quantum Cascade Laser realized by Bragg boundary condition. , 2012, , .		0
247	EC tuning of broadband QCL active region designs around 3.3 Åµm and 8 Åµm. , 2012, , .		0
248	Fully automatized quantum cascade laser design by genetic optimization. Applied Physics Letters, 2012, 101, .	1.5	44
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