

Jerome Faist

List of Publications by Year in descending order

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879
papers

35,002
citations

3726

89
h-index

5384

164
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889
all docs

889
docs citations

889
times ranked

12041
citing authors

#	ARTICLE	IF	CITATIONS
1	Roadmap on multimode light shaping. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 013001.	1.0	41
2	Quantum cascade laser absorption spectrometer with a low temperature multipass cell for precision clumped CO ₂ measurement. <i>Optics Express</i> , 2022, 30, 4631.	1.7	4
3	Ultra-low threshold lasing through phase front engineering via a metallic circular aperture. <i>Nature Communications</i> , 2022, 13, 230.	5.8	4
4	Frequency axis for swept dual-comb spectroscopy with quantum cascade lasers. <i>Optics Letters</i> , 2022, 47, 625.	1.7	7
5	Monolithic Integration of Mid-Infrared Quantum Cascade Lasers and Frequency Combs with Passive Waveguides. <i>ACS Photonics</i> , 2022, 9, 426-431.	3.2	9
6	Absolute frequency referencing in the long wave infrared using a quantum cascade laser frequency comb. <i>Optics Express</i> , 2022, 30, 12891.	1.7	11
7	Mid-infrared femtosecond pulses from a quantum cascade laser. , 2022, , .		0
8	Breakdown of topological protection by cavity vacuum fields in the integer quantum Hall effect. <i>Science</i> , 2022, 375, 1030-1034.	6.0	57
9	Glass-in-glass infiltration for 3D micro-optical composite components. <i>Optics Express</i> , 2022, 30, 13603.	1.7	2
10	Dissipative Kerr solitons in semiconductor ring lasers. <i>Nature Photonics</i> , 2022, 16, 142-147.	15.6	45
11	Exceptional point singularities in multi-section DFB lasers. <i>New Journal of Physics</i> , 2022, 24, 053047.	1.2	1
12	An ultrastrongly coupled single terahertz meta-atom. <i>Nature Communications</i> , 2022, 13, 2528.	5.8	20
13	Interdash Coupling within Dense Ensembles of Quantum Dashes: Comparison of \ln As		

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19	Comb-Calibrated Spectroscopy using a Quantum Cascade Laser Frequency Comb in the Long-Wave Infrared. , 2022, , .		0
20	Engineering quantum materials with chiral optical cavities. Nature Materials, 2021, 20, 438-442.	13.3	120
21	Self-Starting Harmonic Combs in THz Quantum Cascade Lasers. , 2021, , .		0
22	Terahertz Generation in Thin-film Lithium Niobate Platform. , 2021, , .		1
23	Y-coupled THz Quantum Cascade Laser Frequency Comb. , 2021, , .		0
24	Time-resolved 2D THz-Spectroscopy on a THz quantum cascade structure. , 2021, , .		0
25	Monolithically integrated laser platform for the mid-infrared. , 2021, , .		0
26	Ultra-low threshold quantum cascade laser. , 2021, , .		0
27	Bound-to-continuum Non-perturbative Regime for an Ultrastong Light-matter Coupling. , 2021, , .		0
28	Mid-infrared quantum cascade laser frequency combs with a microstrip-like line waveguide geometry. Applied Physics Letters, 2021, 118, .	1.5	24
29	Self-starting harmonic comb emission in THz quantum cascade lasers. Applied Physics Letters, 2021, 118, .	1.5	32
30	THz intersubband electroluminescence from n-type Ge/SiGe quantum cascade structures. Applied Physics Letters, 2021, 118, .	1.5	15
31	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
32	Bayesian optimization of quantum cascade detectors. Optical and Quantum Electronics, 2021, 53, 1.	1.5	6
33	Inducing new material properties with hybrid light-€matter states. Physics Today, 2021, 74, 42-48.	0.3	27
34	Frequency Control of a Mid-Infrared Quantum Cascade Laser Frequency Comb by Near-Infrared Light Injection and Intensity Modulation. , 2021, , .		1
35	Ultra-low Threshold Quantum Cascade Laser. , 2021, , .		0
36	THz electroluminescence from non-polar ZnO quantum cascade structures. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
37	Linewidth Enhancement Factor of Mid-IR Quantum Cascade Lasers. , 2021, , .		1
38	Coherent mid-infrared dual-comb spectroscopy enabled by optical injection locking of quantum cascade laser frequency combs. , 2021, , .		0
39	Monte Carlo Modeling of a Short Wavelength Strain Compensated Quantum Cascade Detector. , 2021, , .		0
40	Coherent Broadening and Tuning of QCL Frequency Combs via RF-Injection. , 2021, , .		0
41	Terahertz intersubband electroluminescence from n-type germanium quantum wells. , 2021, , .		0
42	Coherently-averaged dual comb spectrometer at 7.7 μm with master and follower quantum cascade lasers. Optics Express, 2021, 29, 19126.	1.7	10
43	Demonstration of a Resonantly Amplified Terahertz Quantum Cascade Detector. , 2021, , .		0
44	Breakdown of polaritons in ultrastrongly coupled nanophotonic systems. , 2021, , .		0
45	A Broadband Suspended Hollow Vivaldi Antenna for THz Quantum Cascade Lasers. , 2021, , .		0
46	THz Quantum Cascade Laser Frequency Comb based on a Y-coupled Planarized Waveguide. , 2021, , .		0
47	Shifted Wave Interference Fourier Transform Spectroscopy of THz Quantum Cascade Laser Frequency Combs operating above 70 K. , 2021, , .		0
48	Spectra Characterization of Ring Quantum Cascade lasers. , 2021, , .		0
49	Pure and Self-starting Harmonic Combs in THz Quantum Cascade Lasers: Theory and Experiments. , 2021, , .		0
50	SI-traceable frequency dissemination at 1572.06 μm in a stabilized fiber network with ring topology. Optics Express, 2021, 29, 24592.	1.7	16
51	Polaritonic nonlocality in light-matter interaction. Nature Photonics, 2021, 15, 690-695.	15.6	36
52	THz Ultrastrong Coupling in an Engineered Fabry-Perot Cavity. ACS Photonics, 2021, 8, 2692-2698.	3.2	17
53	All-Mid-Infrared Stabilized Quantum Cascade Laser Frequency Comb with 30-kHz Frequency Stability at 7.7 μm . , 2021, , .		0
54	Exploring field correlation measurements on the electromagnetic ground state in non-local regime. , 2021, , .		0

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55	Femtosecond pulses from a mid-infrared quantum cascade laser. , 2021, , .		0
56	Terahertz Intersubband Electroluminescence from Nonpolar m-Plane ZnO Quantum Cascade Structures. ACS Photonics, 2021, 8, 343-349.	3.2	18
57	High-speed CMOS-compatible III-V on Si membrane photodetectors. Optics Express, 2021, 29, 509.	1.7	21
58	Ultra-low Threshold Quantum Cascade Laser. , 2021, , .		1
59	Y-coupled planarized waveguide THz quantum cascade laser frequency comb. , 2021, , .		0
60	Thin-film lithium niobate integrated circuits for terahertz generation and detection. , 2021, , .		0
61	Breakdown of Polaritons in Nanophotonic Systems. , 2021, , .		0
62	Resonant Amplification Enhanced Terahertz Quantum Cascade Detection. , 2021, , .		0
63	FM to AM Transition of RF Driven THz QCL Comb States. , 2021, , .		0
64	Regenerative terahertz quantum detectors. APL Photonics, 2021, 6, .	3.0	14
65	Frequency Comb Operation of a Y-Coupled Planarized THz Quantum Cascade Laser. , 2021, , .		0
66	THz Intersubband Emitter based on Silicon. , 2021, , .		0
67	Shifted Wave Interference Fourier Transform Spectroscopy of Harmonic and Fundamental RF Injection-Locked THz Quantum Cascade Laser Frequency Combs. , 2021, , .		0
68	Direct measurement of the linewidth enhancement factor of distributed feedback mid-IR QCLs. , 2021, , .		0
69	Terahertz Quantum Cascade Detection Through Regenerative Amplification. , 2021, , .		0
70	Controlling Quantum Cascade Laser Optical Frequency Combs through Microwave Injection. Laser and Photonics Reviews, 2021, 15, 2100242.	4.4	23
71	Femtosecond pulses from a mid-infrared quantum cascade laser. Nature Photonics, 2021, 15, 919-924.	15.6	42
72	Ensemble Monte Carlo modeling of quantum cascade detectors. Journal of Applied Physics, 2021, 130, 203103.	1.1	2

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73	Femtosecond pulses from a mid-infrared quantum cascade laser. , 2021, , .		0
74	Steady state lasing in strained germanium microbridges as fundamental measure for the crossover to direct band gap. , 2021, , .		0
75	Mixing Properties of Room Temperature Patch Antenna Receivers in a Mid-Infrared (1.9 μm) Heterodyne System. Laser and Photonics Reviews, 2020, 14, 1900207.	4.4	12
76	Electron Population Dynamics in Optically Pumped Asymmetric Coupled Ge/SiGe Quantum Wells: Experiment and Models. Photonics, 2020, 7, 2.	0.9	5
77	Topological charge of finite-size photonic crystal modes. Physical Review B, 2020, 102, .	1.1	10
78	Quantum Electrodynamic Control of Matter: Cavity-Enhanced Ferroelectric Phase Transition. Physical Review X, 2020, 10, .	2.8	72
79	Numerical Optimization of Quantum Cascade Detector Heterostructures. , 2020, , .		2
80	Bayesian Optimization of Terahertz Quantum Cascade Lasers. Physical Review Applied, 2020, 13, .	1.5	21
81	Noninvasive Near-Field Spectroscopy of Single Subwavelength Complementary Resonators. Laser and Photonics Reviews, 2020, 14, 1900254.	4.4	9
82	Landau polaritons in highly nonparabolic two-dimensional gases in the ultrastrong coupling regime. Physical Review B, 2020, 101, .	1.1	27
83	RF Injection of THz QCL Combs at 80 K Emitting over 700 GHz Spectral Bandwidth. Photonics, 2020, 7, 9.	0.9	14
84	Photon-Driven Broadband Emission and Frequency Comb RF Injection Locking in THz Quantum Cascade Lasers. ACS Photonics, 2020, 7, 784-791.	3.2	44
85	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
86	High-Resolution and Gapless Dual Comb Spectroscopy with Current-Tuned Quantum Cascade Lasers. , 2020, , .		1
87	High-resolution and gapless dual comb spectroscopy with current-tuned quantum cascade lasers. Optics Express, 2020, 28, 6197.	1.7	53
88	Terahertz absorption-saturation and emission from electron-doped germanium quantum wells. Optics Express, 2020, 28, 7245.	1.7	12
89	Design and simulation of losses in Ge/SiGe terahertz quantum cascade laser waveguides. Optics Express, 2020, 28, 4786.	1.7	11
90	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

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91	Mid-infrared frequency comb from a ring quantum cascade laser. <i>Optica</i> , 2020, 7, 162.	4.8	60
92	Electro-optic interface for ultrasensitive intracavity electric field measurements at microwave and terahertz frequencies. <i>Optica</i> , 2020, 7, 498.	4.8	39
93	Two-dimensional spectroscopy on a THz quantum cascade structure. <i>Nanophotonics</i> , 2020, 10, 171-180.	2.9	10
94	Monte Carlo Modeling of Terahertz Quantum Cascade Detectors. , 2020, , .		4
95	Mid-Infrared Frequency Comb from a Ring Quantum Cascade Laser. , 2020, , .		1
96	Terahertz quantum optics in the time-domain: from field correlation measurements on vacuum field fluctuations in free space towards cavity electro-optics. , 2020, , .		0
97	Topological charge of finite-size photonic crystal lasing modes. , 2020, , .		0
98	Ridge-width dependence of the dispersion and performance of mid-infrared quantum cascade laser frequency combs. , 2020, , .		1
99	High-Resolution and Gapless Dual Comb Spectroscopy with Current-Tuned Quantum Cascade Lasers for Environmental Applications. , 2020, , .		1
100	Broadband THz quantum cascade lasers frequency combs: high temperature operation and harmonic state. , 2020, , .		0
101	Gapless High-Resolution Dual Comb Spectroscopy with Current-Tuned Quantum Cascade Lasers. , 2020, , .		0
102	Integrated Plasmonic Terahertz Field Detector. , 2020, , .		0
103	Noise Correlation Between the Two Degrees of Freedom of a Mid-Infrared Quantum Cascade Laser Frequency Comb. , 2020, , .		0
104	10.1063/5.0004038.1. , 2020, , .		0
105	Mid-infrared quantum cascade laser frequency combs based on multi-section waveguides. <i>Optics Letters</i> , 2020, 45, 6462.	1.7	10
106	Correlation between strain and maximum lasing temperature in GeSn microbridges. , 2020, , .		0
107	Continuous wave lasing in strained germanium microbridge. , 2020, , .		0
108	Perspectives on electrically pumped Ge/SiGe QW emitters at THz frequencies. , 2020, , .		0

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109	Post-processing GHz-level frequency tuning of THz Quantum Cascade Lasers. , 2020, , .		0
110	Terahertz quantum cascade laser frequency comb operation of a coupled waveguide array. , 2020, , .		0
111	Terahertz intersubband electroluminescence from ZnO quantum cascade structures. , 2020, , .		0
112	2D - THz-Spectroscopy on a Quantum Cascade Structure. , 2020, , .		0
113	Electro-optic interface for ultrasensitive intra-cavity electric field sensing. , 2020, , .		0
114	Microelectromechanical control of the state of quantum cascade laser frequency combs. Applied Physics Letters, 2019, 115, 021105.	1.5	6
115	An electrically pumped phonon-polariton laser. Science Advances, 2019, 5, eaau1632.	4.7	36
116	Multi-wavelength distributed feedback quantum cascade lasers for broadband trace gas spectroscopy. Semiconductor Science and Technology, 2019, 34, 083001.	1.0	10
117	Thermoelectrically cooled THz quantum cascade laser operating up to 210 K. Applied Physics Letters, 2019, 115, .	1.5	178
118	Observation of Intersubband Absorption in ZnO Coupled Quantum Wells. Physical Review Applied, 2019, 12, .	1.5	11
119	Homogeneous, Bound-to-Continuum THz QCL Active Region Design Featuring 1.65 THz Emission Bandwidth in CW. , 2019, , .		0
120	Optimization and Fabrication of Two-Quantum Well THz QCLs Operating above 200 K. , 2019, , .		1
121	Magneto-transport of 2DEGs ultrastrongly coupled to vacuum fields. , 2019, , .		0
122	Inhomogeneous Broadening of a Polaritonic Mode in the Ultrastrong Coupling Regime. , 2019, , .		0
123	A Broadband Polarization-Rotating Vivaldi Antenna for Beam Focusing of Terahertz Quantum Cascade Lasers. , 2019, , .		0
124	GeSn Lasers with Uniaxial Tensile Strain in the Gain Medium. , 2019, , .		0
125	Mid-Infrared Frequency Comb from a Ring Quantum Cascade Laser. , 2019, , .		0
126	Gain dynamics in THz QCLs and its implication for THz comb sources. , 2019, , .		0

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127	Spectral Interleaving with Quantum Cascade Laser Frequency Combs. , 2019, , .		0
128	GeSn Lasers Covering a Wide Wavelength Range Thanks to Uniaxial Tensile Strain. ACS Photonics, 2019, 6, 2462-2469.	3.2	105
129	Strained Germanium Lasing in the Mid-Infrared. , 2019, , .		0
130	Room temperature surface emission on large-area photonic crystal quantum cascade lasers. Applied Physics Letters, 2019, 114, .	1.5	26
131	Retrieval of phase relation and emission profile of quantum cascade laser frequency combs. Nature Photonics, 2019, 13, 562-568.	15.6	76
132	Lasing in strained germanium microbridges. Nature Communications, 2019, 10, 2724.	5.8	89
133	On-chip mid-infrared and THz frequency combs for spectroscopy. Applied Physics Letters, 2019, 114, .	1.5	51
134	Room temperature operation of <i>n</i> -type Ge/SiGe terahertz quantum cascade lasers predicted by non-equilibrium Green's functions. Applied Physics Letters, 2019, 114, .	1.5	45
135	Electric field correlation measurements on the electromagnetic vacuum state. Nature, 2019, 568, 202-206.	13.7	82
136	The Upper Branch Broadening in Ultrastrongly Coupled THz Landau Polaritons. , 2019, , .		1
137	Electron-doped SiGe Quantum Well Terahertz Emitters pumped by FEL pulses. , 2019, , .		0
138	Low RF-Power Injection-Locking and Beatnote Control of Terahertz Quantum Cascade Laser Frequency Combs. , 2019, , .		0
139	Low-Loss RF Cavity for Quantum Cascade Laser Frequency Combs. , 2019, , .		0
140	N-Type Ge/SiGe Quantum Cascade Heterostructures for THz Emission. , 2019, , .		1
141	Large Area Surface-Emitting Photonic Crystal Quantum Cascade Laser. , 2019, , .		1
142	Retrieving the Phase Relation of a Quantum Cascade Laser Frequency Comb and Reconstructing its Emission Profile. , 2019, , .		0
143	Si-based n-type THz Quantum Cascade Emitter. , 2019, , .		0
144	Probe-Sample Interaction in Aperture-type THz Near-Field Microscopy of Complementary Resonators. , 2019, , .		0

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145	Strained Germanium Lasing in the Mid-Infrared. , 2019, , .		0
146	GeSn Lasers with Uniaxial Tensile Strain in the Gain Medium. , 2019, , .		0
147	Dispersion measurements of Terahertz Quantum Cascade Fabry-Pérot cavities and VECSELS. , 2019, , .		0
148	High-Quality n-Type Ge/SiGe Multilayers for THz Quantum Cascade Lasers. , 2019, , .		0
149	1.65 THz Spanning Homogeneous THz Quantum Cascade Laser: Comb Operation and Injection Locking. , 2019, , .		0
150	THz Quantum Cascade Lasers Operating up to 210 K. , 2019, , .		0
151	Compact and ultra-efficient broadband plasmonic terahertz field detector. Nature Communications, 2019, 10, 5550.	5.8	77
152	A broadband polarization-rotating antipodal Vivaldi antenna for improved far-field properties of terahertz quantum cascade lasers. , 2019, , .		0
153	Control of Electron-State Coupling in Asymmetric Ge/Si Quantum Wells. Physical Review Applied. 2019, 11, .	1.5	25
154	Magneto-transport controlled by Landau polariton states. Nature Physics, 2019, 15, 186-190.	6.5	115
155	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
156	Terahertz refractive index matching solution. Optics Express, 2019, 27, 14536.	1.7	14
157	Large area photonic crystal quantum cascade laser with 5 W surface-emitting power. Optics Express, 2019, 27, 22708.	1.7	29
158	Quantum cascade frequency combs: physics and applications. , 2019, , .		0
159	Optomechanical Control of the State of Chip-Scale Frequency Combs. , 2019, , .		0
160	Over 2W room temperature lasing on a large area photonic crystal quantum cascade laser. , 2019, , .		0
161	Heterogeneous THz quantum cascade lasers: Gain recovery dynamics study. , 2019, , .		0
162	Optimization and fabrication of two-quantum well THz QCLs operating above 200 K. , 2019, , .		0

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163	Optomechanical control of quantum cascade laser frequency combs. , 2019, , .		0
164	Three-Dimensional Phase Modulator at Telecom Wavelength Acting as a Terahertz Detector with an Electro-Optic Bandwidth of 1.25 Terahertz. ACS Photonics, 2018, 5, 1398-1403.	3.2	34
165	Quantum model of gain in phonon-polariton lasers. Physical Review B, 2018, 97, .	1.1	10
166	Two-well quantum cascade laser optimization by non-equilibrium Green's function modelling. Applied Physics Letters, 2018, 112, .	1.5	53
167	Coupled-Waveguides for Dispersion Compensation in Semiconductor Lasers. Laser and Photonics Reviews, 2018, 12, 1700323.	4.4	23
168	Room-temperature nine-Åµm-wavelength photodetectors and GHz-frequency heterodyne receivers. Nature, 2018, 556, 85-88.	13.7	197
169	Single-Shot Microsecond-Resolved Spectroscopy of the Bacteriorhodopsin Photocycle with Quantum Cascade Laser Frequency Combs. Biophysical Journal, 2018, 114, 173a.	0.2	4
170	Heterogeneous terahertz quantum cascade lasers exceeding 1.9 THz spectral bandwidth and featuring dual comb operation. Nanophotonics, 2018, 7, 237-242.	2.9	49
171	Critical Mode Softening in Ultra-Strong Coupling of Landau Level Transitions to THz Metamaterials Beyond the Hopfield Model. , 2018, , .		0
172	High-T _c superconducting metasurfaces for ultra-strong coupling experiments at THz frequencies. , 2018, , .		0
173	Field correlation measurements of photon modes with sub-unity photon occupation per mode inside a Fabry-Perot cavity. , 2018, , .		0
174	Broadband On-Chip Thz Frequency Combs. , 2018, , .		0
175	Gain dynamics in a heterogeneous terahertz quantum cascade laser. Applied Physics Letters, 2018, 113, .	1.5	25
176	Gain recovery dynamics in broadband terahertz quantum cascade lasers. , 2018, , .		0
177	CMOS-Compatible Hybrid III-V/Si Photodiodes Using a Lateral Current Collection Scheme. , 2018, , .		6
178	High T _c Superconducting THz Metamaterial for Ultrastrong Coupling in a Magnetic Field. ACS Photonics, 2018, 5, 3977-3983.	3.2	19
179	Dual-comb spectroscopy using plasmon-enhanced-waveguide dispersion-compensated quantum cascade lasers. Optics Letters, 2018, 43, 4522.	1.7	18
180	Multi-species trace gas sensing with dual-wavelength QCLs. Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	28

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181	Dual-wavelength DFB quantum cascade lasers: sources for multi-species trace gas spectroscopy. Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	22
182	Magnetoplasmonic enhancement of Faraday rotation in patterned graphene metasurfaces. Physical Review B, 2018, 97, .	1.1	27
183	Room-Temperature, Wide-Band, Quantum Well Infrared Photodetector for Microwave Optical Links at 4.9 μ m Wavelength. ACS Photonics, 2018, 5, 3689-3694.	3.2	27
184	Multisubband Plasmons in Doped ZnO Quantum Wells. Physical Review Applied, 2018, 10, .	1.5	20
185	Tunable dispersion compensation of quantum cascade laser frequency combs. Optics Letters, 2018, 43, 1746.	1.7	29
186	Single-Shot Sub-microsecond Mid-infrared Spectroscopy on Protein Reactions with Quantum Cascade Laser Frequency Combs. Analytical Chemistry, 2018, 90, 10494-10500.	3.2	123
187	Dual-wavelength DFB quantum cascade lasers for multi-species trace gas spectroscopy. , 2018, , .		0
188	Superradiantly Limited Linewidth in Complementary THz Metamaterials on Si Membranes. Advanced Optical Materials, 2018, 6, 1800210.	3.6	10
189	Coexisting frequency combs spaced by an octave in a monolithic quantum cascade laser. Optics Express, 2018, 26, 23167.	1.7	9
190	Evidence of linear chirp in mid-infrared quantum cascade lasers. Optica, 2018, 5, 948.	4.8	110
191	Octave-Spaced, Dual-Frequency Comb Quantum Cascade Laser Source in a Single Monolithic Waveguide. , 2018, , .		1
192	Superradiantly Limited Linewidth of Complementary THz Split Ring Resonators on Si-Membranes and Surface Plasmon Polaritons. , 2018, , .		0
193	Multi-Species, High-Precision MIR Trace Gas Detection for Environmental Applications. , 2018, , .		0
194	Direct Measurement of the Phase Coherence of Comb Sources. , 2018, , .		0
195	QCL absorption spectroscopy for lightweight and multi-species environmental applications. , 2018, , .		0
196	Tomography of an ultrastrongly coupled polariton state using Quantum Hall transport under irradiation. , 2018, , .		0
197	Hybrid Nano-Gap LC-Metasurface at 300 GHz Ultrastrongly Coupled to Less than 100 Electrons. , 2018, , .		0
198	Standoff detection from diffusely scattering surfaces using dual quantum cascade laser comb spectroscopy. , 2018, , .		0

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199	Disorder effects in InAs/GaSb topological insulator candidates. <i>Physical Review B</i> , 2017, 95, .	1.1	2
200	Raman-strain relations in highly strained Ge: Uniaxial $\sim 100\%$, $\sim 110\%$ and biaxial (001) stress. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	40
201	Top-down method to introduce ultra-high elastic strain. <i>Journal of Materials Research</i> , 2017, 32, 726-736.	1.2	9
202	Coupling Surface Plasmon Polariton Modes to Complementary THz Metasurfaces Tuned by Inter-Metatom Distance. <i>Advanced Optical Materials</i> , 2017, 5, 1600884.	3.6	20
203	High-sensitivity intensity correlation measurements for photon statistics at terahertz frequencies. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2
204	Electrically controlled terahertz magneto-optical phenomena in continuous and patterned graphene. <i>Nature Communications</i> , 2017, 8, 14626.	5.8	93
205	Characterization of iron doped indium phosphide as a current blocking layer in buried heterostructure quantum cascade lasers. <i>Journal of Applied Physics</i> , 2017, 121, 094502.	1.1	4
206	Complementary split-ring resonator antenna coupled quantum dot infrared photodetector. <i>Applied Physics Letters</i> , 2017, 110, 091106.	1.5	8
207	High-Power Growth-Robust InGaAs/InAlAs Terahertz Quantum Cascade Lasers. <i>ACS Photonics</i> , 2017, 4, 957-962.	3.2	22
208	Intersubband absorption in m-plane ZnO/ZnMgO MQWs. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2
209	High-quality and homogeneous 200-mm GeOI wafers processed for high strain induction in Ge. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
210	On-chip THz quantum cascade laser dual frequency combs (Conference Presentation)., 2017, , .		0
211	Strong coupling of THz surface plasmon polaritons to complementary metasurfaces (Conference) Tj ETQq1 1 0.784314 rgBT ₀ /Overlo		
212	Passive photonic components and germanium contacts for a 200mm germanium-on-insulator photonic platform (Conference Presentation)., 2017, , .		0
213	Ultrastrong coupling with few (<60) electrons at 280 GHz in single LC nanogap resonators (Conference Presentation)., 2017, , .		0
214	Non-polar ZnO/(Zn,Mg)O heterostructures for intersubband devices: novel applications with an old material system? (Conference Presentation)., 2017, , .		0
215	Broadband monolithic extractors for terahertz quantum cascade laser based frequency combs (Conference Presentation)., 2017, , .		0
216	Self-detection of MIR QCL frequency combs (Withdrawal Notice). <i>Proceedings of SPIE</i> , 2017, , .	0.8	0

#	ARTICLE	IF	CITATIONS
217	Ultra-strong coupling with spin-split heavyhole cyclotron resonances in sGe QWs (Conference) Tj ETQq1 1 0.784314 rgBT /Oyerlock 10		
218	Lateral interdot coupling among dense ensemble of InAs quantum dots grown on InP substrate observed at cryogenic temperatures. Journal of Physics: Conference Series, 2017, 906, 012008.	0.3	1
219	Combining a fully switchable THz superconducting metamaterial with a 2DEG for ultra-strong coupling. European Physical Journal Plus, 2017, 132, 1.	1.2	5
220	Intensity autocorrelation measurements of frequency combs in the terahertz range. Physical Review A, 2017, 96, .	1.0	14
221	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
222	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
223	Anomalous Coulomb drag between bilayer graphene and a GaAs electron gas. New Journal of Physics, 2017, 19, 103042.	1.2	10
224	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
225	Broadband monolithic extractor for metal-metal waveguide based terahertz quantum cascade laser frequency combs. Applied Physics Letters, 2017, 111, 021106.	1.5	9
226	Electric field and intensity correlations of a terahertz comb based on fast electro-optic sampling (Conference Presentation). , 2017, , .		0
227	Few-Electron Ultrastrong Light-Matter Coupling at 300 GHz with Nanogap Hybrid LC Microcavities. Nano Letters, 2017, 17, 7410-7415.	4.5	57
228	Short pulse generation and high power emission of Quantum Cascade lasers. , 2017, , .		0
229	Investigation of the Chromatic Dispersion in Two-Section InAs/GaAs Quantum-Dot Lasers. IEEE Photonics Technology Letters, 2017, 29, 2246-2249.	1.3	5
230	Quantum theory of fast electro-optic correlations. , 2017, , .		0
231	Amplitude modulation in terahertz frequency combs. , 2017, , .		0
232	Recent advances of multispecies mid-IR spectroscopy for mobile applications. , 2017, , .		0
233	Towards the full frequency stabilization of quantum cascade laser frequency combs. , 2017, , .		1
234	Ultrastrong light-matter coupling with few electrons in single LC resonators. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
235	Terahertz quantum cascade lasers frequency combs: Wide bandwidth operation and dual-comb on a chip. , 2017, , .		0
236	Cavity mode analysis of highly strained direct bandgap germanium micro-bridge cavities. , 2017, , .		0
237	Dual-wavelength DFB quantum cascade lasers for NO and NO ₂ trace gas analysis. , 2017, , .		0
238	Mode stabilization in quantum cascade lasers via an intra-cavity cascaded nonlinearity. Optics Express, 2017, 25, 1847.	1.7	2
239	Analytical coupled-wave model for photonic crystal surface-emitting quantum cascade lasers. Optics Express, 2017, 25, 11997.	1.7	9
240	Probing and controlling the comb features of a THz QCL. , 2017, , .		0
241	Phase measurement of a mid-IR QCL comb. , 2017, , .		0
242	Highly non-parabolic strained Ge quantum well for THz ultra-strong light-matter coupling. , 2017, , .		0
243	THz surface plasmon polariton modes coupled to complementary metasurfaces tuned by inter meta-atom distance. , 2017, , .		0
244	Waveguide engineering for low dispersion mid-infrared quantum cascade lasers frequency combs. , 2017, , .		0
245	Plasmon-enhanced waveguide for dispersion compensation in mid-infrared quantum cascade laser frequency combs. Optics Letters, 2017, 42, 1604.	1.7	35
246	Dual comb operation of a 8.2 μ m quantum cascade laser frequency comb with 1 W optical power. Applied Physics Letters, 2017, 111, .	1.5	68
247	Mid-Infrared spectrometer featuring μ -second time resolution based on dual-comb quantum cascade laser frequency combs. , 2017, , .		4
248	Single-shot microsecond-resolved spectroscopy of the bacteriorhodopsin photocycle with quantum cascade laser frequency combs. , 2017, , .		0
249	Patch array antenna coupling of THz source and detector. , 2017, , .		1
250	Multi-species Trace Gas Analysis with Dual-wavelength DFB-QCLs. , 2017, , .		0
251	Design of Dirac-point photonic crystal quantum cascade lasers. , 2017, , .		1
252	Advanced Fabrication of Single-Mode and Multi-Wavelength MIR-QCLs. Photonics, 2016, 3, 26.	0.9	16

#	ARTICLE	IF	CITATIONS
253	Dual-Section DFB-QCLs for Multi-Species Trace Gas Analysis. Photonics, 2016, 3, 24.	0.9	22
254	Purely wavelength- and amplitude-modulated quartz-enhanced photoacoustic spectroscopy. Optics Express, 2016, 24, 25943.	1.7	44
255	Mid infrared quantum cascade laser operating in pure amplitude modulation for background-free trace gas spectroscopy. Optics Express, 2016, 24, 26464.	1.7	11
256	2D patch antenna array on a double metal quantum cascade laser with >90% coupling to a Gaussian beam and selectable facet transparency at 19â€‰THz. Optics Letters, 2016, 41, 4590.	1.7	14
257	Dispersion engineering of quantum cascade laser frequency combs. Optica, 2016, 3, 252.	4.8	76
258	Terahertz quantum Hall effect for spin-split heavy-hole gases in strained Ge quantum wells. New Journal of Physics, 2016, 18, 113036.	1.2	38
259	Frequency stability characterization of a quantum cascade laser frequency comb. Laser and Photonics Reviews, 2016, 10, 623-630.	4.4	39
260	Negative free carrier absorption in terahertz quantum cascade lasers. Applied Physics Letters, 2016, 108, .	1.5	5
261	Lattice strain and tilt mapping in stressed Ge microstructures using X-ray Laue micro-diffraction and rainbow filtering. Journal of Applied Crystallography, 2016, 49, 1402-1411.	1.9	17
262	Dispersion in a broadband terahertz quantum cascade laser. Applied Physics Letters, 2016, 109, .	1.5	22
263	Accurate strain measurements in highly strained Ge microbridges. Applied Physics Letters, 2016, 108, .	1.5	33
264	Analysis of dual-section DFB-QCLs for spectroscopic applications. , 2016, , .		0
265	Pulse generation and spectral optimization of broadband terahertz quantum cascade lasers. , 2016, , .		1
266	On-chip terahertz dual-comb source based on quantum cascade lasers. , 2016, , .		0
267	Broadband monolithic extractor for terahertz quantum cascade laser based frequency combs. , 2016, , .		0
268	THz quantum cascade amplifier for remote sensing applications. , 2016, , .		0
269	High performance 4.7 THz GaAs quantum cascade lasers based on four quantum wells. New Journal of Physics, 2016, 18, 123004.	1.2	21
270	On-chip, self-detected terahertz dual-comb source. Applied Physics Letters, 2016, 108, .	1.5	77

#	ARTICLE	IF	CITATIONS
271	Far-Infrared Quantum Cascade Lasers Operating in the AlAs Phonon Reststrahlen Band. ACS Photonics, 2016, 3, 2280-2284.	3.2	34
272	A patch-array antenna single-mode low electrical dissipation continuous wave terahertz quantum cascade laser. Applied Physics Letters, 2016, 109, .	1.5	39
273	Non-linear bandgap strain dependence in highly strained germanium using strain redistribution in 200 mm GeOI wafers for laser applications. , 2016, , .		0
274	Highly strained direct bandgap Germanium cavities for a monolithic laser on Si. , 2016, , .		1
275	Terahertz quantum Hall effect in spin-split 2D heavy-hole gases. , 2016, , .		0
276	Ultra-strong coupling with spin-split heavy-hole cyclotron resonances in strained Ge quantum wells. , 2016, , .		0
277	Gate tunable magneto-plasmon ultrastrongly coupled to LC cavity. , 2016, , .		0
278	Measuring photon statistics in the terahertz domain. , 2016, , .		0
279	Ultrastrong light-matter coupling at 300 GHz with few (<80) electrons. , 2016, , .		0
280	Influence of THz surface plasmon polaritons on complementary metasurfaces. , 2016, , .		0
281	Ultra-high amplified strain on 200 mm optical Germanium-On-Insulator (GeOI) substrates: towards CMOS compatible Ge lasers. Proceedings of SPIE, 2016, , .	0.8	14
282	New derivatives of bicyclic diamines with antiprotozoal activity. Monatshefte für Chemie, 2016, 147, 369-381.	0.9	1
283	Rf-modulation of mid-infrared distributed feedback quantum cascade lasers. Optics Express, 2016, 24, 3294.	1.7	44
284	Quantum Cascade Laser Frequency Combs. Nanophotonics, 2016, 5, 272-291.	2.9	171
285	Room temperature operation of a deep etched buried heterostructure photonic crystal quantum cascade laser. Laser and Photonics Reviews, 2016, 10, 843-848.	4.4	8
286	Short pulse generation and mode control of broadband terahertz quantum cascade lasers. Optica, 2016, 3, 1087.	4.8	62
287	Germanium under High Tensile Stress: Nonlinear Dependence of Direct Band Gap vs Strain. ACS Photonics, 2016, 3, 1907-1911.	3.2	48
288	A novel patch-array antenna single-mode low electrical dissipation continuous wave Terahertz Quantum Cascade Laser. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
289	High power and single mode quantum cascade lasers. Optics Express, 2016, 24, 10694.	1.7	17
290	Subcycle measurement of intensity correlations in the terahertz frequency range. Physical Review A, 2016, 93, .	1.0	35
291	Quantum cascade laser frequency combs: physics and applications. , 2016, , .		0
292	Strain-Compensated InGaAs Terahertz Quantum Cascade Lasers. ACS Photonics, 2016, 3, 2297-2302.	3.2	7
293	Fabrication of 200 mm Germanium-On-Insulator (GeOI): A step toward a Germanium photonic platform. , 2016, , .		0
294	Nonlinear strain dependences in highly strained germanium micromembranes for on-chip light source applications (Conference Presentation). , 2016, , .		0
295	Antiprotozoal activity of bicycles featuring a dimethylamino group at their bridgehead. Bioorganic and Medicinal Chemistry, 2016, 24, 3781-3789.	1.4	1
296	Grapheneâ€“Metamaterial Photodetectors for Integrated Infrared Sensing. ACS Photonics, 2016, 3, 936-941.	3.2	62
297	336 Åµm single-mode quantum cascade laser with a dissipation below 250 mW. Optics Express, 2016, 24, 662.	1.7	11
298	Measuring intensity correlations of a THz quantum cascade laser around its threshold at sub-cycle timescales. Proceedings of SPIE, 2016, , .	0.8	2
299	Ultrastrong light-matter-coupling at 250 GHz. , 2016, , .		0
300	Single-Mode Quantum Cascade Laser Array Emitting From a Single Facet. IEEE Photonics Technology Letters, 2016, 28, 1197-1200.	1.3	7
301	Buried Heterostructure Photonic Crystal Quantum Cascade Laser: Towards 2D Large-area Single-mode Operation. , 2016, , .		0
302	Dynamics of ultra-broadband terahertz quantum cascade lasers for comb operation. , 2016, , .		0
303	Multi-species Trace Gas Analysis with Dual-section DFB-QCLs. , 2016, , .		0
304	Measuring the frequency stability of a quantum cascade laser frequency comb. , 2016, , .		0
305	Quantum-cascade Laser Frequency Combs and Their Application to Dual-comb Spectroscopy. , 2016, , .		0
306	Photocurrent spectroscopy and X-ray microdiffraction study of highly strained germanium nanostructures. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
307	Intrinsic linewidth of quantum cascade laser frequency combs. <i>Optica</i> , 2015, 2, 836.	4.8	43
308	A Direct Band Gap GeSn Laser on Si. , 2015, , .		0
309	On-chip dual-comb based on quantum cascade laser frequency combs. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	51
310	Measurements and simulations of the optical gain and anti-reflection coating modal reflectivity in quantum cascade lasers with multiple active region stacks. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	17
311	1.9% bi-axial tensile strain in thick germanium suspended membranes fabricated in optical germanium-on-insulator substrates for laser applications. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	70
312	Extended and quasi-continuous tuning of quantum cascade lasers using superstructure gratings and integrated heaters. <i>Applied Physics Letters</i> , 2015, 107, 221108.	1.5	29
313	Multi-Component Trace Gas Spectroscopy Using Dual-Wavelength Quantum Cascade Lasers. <i>Chimia</i> , 2015, 69, 708-708.	0.3	0
314	Design rules to control the tensile strain in Ge μ C-membranes fabricated from GeOI substrates for photonics applications. , 2015, , .		0
315	Extended tuning of mid-ir quantum cascade lasers using integrated resistive heaters. <i>Optics Express</i> , 2015, 23, 29715.	1.7	31
316	Dynamics of ultra-broadband terahertz quantum cascade lasers for comb operation. <i>Optics Express</i> , 2015, 23, 33270.	1.7	70
317	Continuously tunable ultrastrong light-matter interaction. , 2015, , .		1
318	Optical spectroscopy on strained Ge microbridges at the transition to a direct band gap. , 2015, , .		0
319	Electrically tunable graphene anti-dot array terahertz plasmonic crystals exhibiting multi-band resonances. <i>Optica</i> , 2015, 2, 135.	4.8	50
320	Quantum cascade laser combs: effects of modulation and dispersion. <i>Optics Express</i> , 2015, 23, 1651.	1.7	57
321	Simultaneous measurement of NO and NO ₂ by dual-wavelength quantum cascade laser spectroscopy. <i>Optics Express</i> , 2015, 23, 1512.	1.7	35
322	Lasing in direct-bandgap GeSn alloy grown on Si. <i>Nature Photonics</i> , 2015, 9, 88-92.	15.6	1,016
323	Broadband terahertz amplification in a heterogeneous quantum cascade laser. <i>Optics Express</i> , 2015, 23, 3117.	1.7	13
324	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

#	ARTICLE	IF	CITATIONS
325	Hydride vapour phase epitaxy assisted buried heterostructure quantum cascade lasers for sensing applications. , 2015, , .		2
326	Octave-spanning THz quantum cascade laser. , 2015, , .		0
327	Large-area gate-tunable terahertz plasmonic metasurfaces employing graphene based structures. Proceedings of SPIE, 2015, , .	0.8	0
328	All solid state mid-infrared dual-comb spectroscopy platform based on QCL technology. , 2015, , .		0
329	Structural and optical properties of 200 mm germanium-on-insulator (GeOI) substrates for silicon photonics applications. Proceedings of SPIE, 2015, , .	0.8	15
330	Surface emitting multi-wavelength array of single frequency quantum cascade lasers. Applied Physics Letters, 2015, 106, .	1.5	27
331	Electrically tunable terahertz quantum cascade lasers based on a two-sections interdigitated distributed feedback cavity. Applied Physics Letters, 2015, 106, .	1.5	26
332	Impact of interface roughness distributions on the operation of quantum cascade lasers. Optics Express, 2015, 23, 5201.	1.7	35
333	Broadband superluminescence, $59\hat{1}/4\text{m}$ to $72\hat{1}/4\text{m}$, of a quantum cascade gain device. Optics Express, 2015, 23, 7184.	1.7	19
334	Room Temperature Operation of a Photonic Crystal Quantum Cascade Laser. , 2015, , .		0
335	Highly Efficient Modulation of THz Metamaterials Using Graphene Surface Plasmons. , 2015, , .		0
336	Highly tunable hybrid metamaterials employing split-ring resonators strongly coupled to graphene surface plasmons. Nature Communications, 2015, 6, 8969.	5.8	197
337	Surface emitting, single-mode quantum cascade laser array. , 2015, , .		0
338	Octave-spanning semiconductor laser. Nature Photonics, 2015, 9, 42-47.	15.6	240
339	Simultaneous Measurement of NO and NO ₂ using a Dual-Wavelength Quantum Cascade Laser. , 2015, , .		0
340	Dual-Comb Spectroscopy based on Quantum Cascade Laser Frequency Combs. , 2015, , .		1
341	Amplification of broadband terahertz pulses in a quantum cascade heterostructure. , 2015, , .		0
342	Mid-infrared and THz Quantum cascade laser frequency combs. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
343	Dual-wavelength quantum cascade laser for trace gas spectroscopy. Applied Physics Letters, 2014, 105, .	1.5	40
344	High quality factor, fully switchable terahertz superconducting metasurface. Applied Physics Letters, 2014, 105, .	1.5	36
345	Excess carrier lifetimes in Ge layers on Si. Applied Physics Letters, 2014, 104, .	1.5	62
346	Enhanced current injection from a quantum well to a quantum dash in magnetic field. New Journal of Physics, 2014, 16, 083029.	1.2	5
347	Carrier lifetimes in uniaxially strained Ge micro bridges. , 2014, , .		1
348	Surface Emission Quantum Cascade Lasers Combining First and Second Order DFB gratings. , 2014, , .		0
349	Superconducting complementary metasurfaces for THz ultrastrong light-matter coupling. New Journal of Physics, 2014, 16, 033005.	1.2	24
350	Distributed-feedback quantum cascade laser emitting at 32 μ m. Optics Express, 2014, 22, 2111.	1.7	12
351	Terahertz intersubband polariton tuning by electrical gating. Optics Express, 2014, 22, 2126.	1.7	5
352	Interaction between meta-materials and shallow donors in bulk GaN at THz frequency. Optics Express, 2014, 22, 3199.	1.7	1
353	Spectral gain profile of a multi-stack terahertz quantum cascade laser. Applied Physics Letters, 2014, 105, .	1.5	30
354	Double metal waveguide InGaAs/AlInAs quantum cascade lasers emitting at 24 μ m. Applied Physics Letters, 2014, 105, .	1.5	25
355	Ultrastrong coupling in the near field of complementary split-ring resonators. Physical Review B, 2014, 90, .	1.1	140
356	Mode switching in a multi-wavelength distributed feedback quantum cascade laser using an external micro-cavity. Applied Physics Letters, 2014, 104, 051102.	1.5	3
357	Strained Ge microbridges to obtain a direct bandgap laser. , 2014, , .		2
358	Coherent frequency combs produced by self frequency modulation in quantum cascade lasers. Applied Physics Letters, 2014, 104, .	1.5	116
359	Electrical laser frequency tuning by three terminal terahertz quantum cascade lasers. Applied Physics Letters, 2014, 104, 011107.	1.5	19
360	Dual-comb spectroscopy based on quantum-cascade-laser frequency combs. Nature Communications, 2014, 5, 5192.	5.8	390

#	ARTICLE	IF	CITATIONS
361	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
362	Integrated patch and slot array antenna for terahertz quantum cascade lasers at 4.7 THz. Applied Physics Letters, 2014, 104, .	1.5	23
363	Comparative analysis of quantum cascade laser modeling based on density matrices and non-equilibrium Green's functions. Applied Physics Letters, 2014, 105, .	1.5	44
364	Strong Coupling in the Far-Infrared between Graphene Plasmons and the Surface Optical Phonons of Silicon Dioxide. ACS Photonics, 2014, 1, 1151-1155.	3.2	75
365	Mid-infrared spectroscopy for gases and liquids based on quantum cascade technologies. Analyst, The, 2014, 139, 2039-2046.	1.7	45
366	Multi-Color Laser Spectroscopy with a Dual-Wavelength Quantum Cascade Laser. , 2014, , .		1
367	Continuous-wave vertically emitting photonic crystal terahertz laser. Laser and Photonics Reviews, 2013, 7, L45.	4.4	28
368	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
369	Terahertz quantum cascade lasers based on quaternary AlInGaAs barriers. Applied Physics Letters, 2013, 103, 041103.	1.5	18
370	High frequency modulation of mid-infrared quantum cascade lasers embedded into microstrip line. Applied Physics Letters, 2013, 102, .	1.5	44
371	Terahertz photonic crystal quantum cascade laser coupled to a second order Bragg vertical extractor. , 2013, , .		0
372	Multi-Wavelength QCL Based MIR Spectroscopy for Fluids and Gases. , 2013, , .		1
373	EC tuning of a two color QCL active region design in the 3 to 4 μm region. , 2013, , .		0
374	High power terahertz quantum cascade laser at 63 μm . , 2013, , .		0
375	Transverse-electric polarized intersubband electroluminescence from quantum cascade structures based on InAs/AlInAs quantum dashes. , 2013, , .		0
376	Distributed-Feedback Quantum Cascade Laser at 3.2 μm . , 2013, , .		0
377	Excess carrier lifetimes in Ge layers on Si. , 2013, , .		1
378	Characterization of thin AlSb/AlAs barriers on InAs by mid-infrared intersubband absorption measurements. Applied Physics Letters, 2013, 102, .	1.5	1

#	ARTICLE	IF	CITATIONS
379	Terahertz intersubband electroluminescence from InAs quantum cascade light emitting structures. Applied Physics Letters, 2013, 102, 141113.	1.5	1
380	Synchrotron infrared transmission spectroscopy of a quantum cascade laser correlated to gain models. Applied Physics Letters, 2013, 102, 012112.	1.5	7
381	Analysis of enhanced light emission from highly strained germanium microbridges. Nature Photonics, 2013, 7, 466-472.	15.6	367
382	Interaction of single-layer CVD graphene with a metasurface of terahertz split-ring resonators. Proceedings of SPIE, 2013, , .	0.8	1
383	Four-wave mixing in a quantum cascade laser amplifier. Applied Physics Letters, 2013, 102, .	1.5	68
384	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
385	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
386	Broadband external cavity tuning in the 3-4 μ m window. Applied Physics Letters, 2013, 103, .	1.5	33
387	High frequency modulation of Mid-InfraRed Quantum Cascade Laser embedded into a micro-strip line. , 2013, , .		0
388	Highly sensitive and fast detection of propane"butane using a 3 μ m quantum cascade laser. Applied Optics, 2013, 52, 4613.	0.9	12
389	Noise properties of a mid-IR Quantum Cascade Laser Frequency Comb. , 2013, , .		0
390	Progress in quantum cascade lasers: wavelength agility and frequency comb generation. , 2013, , .		0
391	Ultra-broadband THz quantum cascade laser operating with regular comb teeth in continuous wave operation. , 2013, , .		0
392	Electrically driven nanopillars for THz quantum cascade lasers. Optics Express, 2013, 21, 10917.	1.7	61
393	Quantum cascade laser in a master oscillator power amplifier configuration with Watt-level optical output power. Optics Express, 2013, 21, 19180.	1.7	25
394	Physical Origin of Frequency Noise and Linewidth in Mid-IR DFB Quantum Cascade Lasers. , 2013, , .		2
395	Decoherence mechanisms of Landau level THz excitations in two dimensional electron gases. , 2013, , .		1
396	Influence of resonator design on ultrastrong coupling between a two-dimensional electron gas and a THz metamaterial. Proceedings of SPIE, 2013, , .	0.8	2

#	ARTICLE	IF	CITATIONS
397	Broadband homogeneous quantum cascade laser emitting at 2.3 THz. , 2013, , .		0
398	Properties and origin of frequency noise in Mid-IR distributed feedback Quantum Cascade Lasers. , 2013, , .		0
399	Ultrastrong light-matter coupling between high-mobility 2DEG and superconducting THz metasurfaces. , 2013, , .		0
400	Recent progress on single-mode quantum cascade lasers. , 2013, , .		1
401	InGaAs/AlInGaAs THz quantum cascade lasers. , 2013, , .		0
402	Continuous tuning of terahertz distributed feedback quantum cascade laser by gas condensation and dielectric deposition. Applied Physics Letters, 2013, 102, .	1.5	25
403	An ultra-compact CO ₂ isotope analyzer exclusively based on quantum cascade technology. , 2013, , .		0
404	Fully stabilized dual-comb spectrometer based on a mid-IR quantum-cascade-laser frequency comb. , 2013, , .		0
405	Quantum devices. , 2013, , 1-8.		5
406	Dual-comb Spectrometer Based on Mid-IR Quantum Cascade Laser Frequency Combs. , 2013, , .		1
407	Towards an all solid-state dual-comb spectrometer based on mid-infrared QCL frequency comb sources. , 2013, , .		0
408	Quantum dot occupation and electron dwell time in the cotunneling regime. New Journal of Physics, 2012, 14, 083003.	1.2	5
409	Stand-alone system for high-resolution, real-time terahertz imaging. Optics Express, 2012, 20, 2772.	1.7	44
410	Direct link of a mid-infrared QCL to a frequency comb by optical injection. Optics Letters, 2012, 37, 1011.	1.7	52
411	Novel injector schemes for Mid-Infrared Quantum Cascade lasers, toward the genetic optimization of the laser design. , 2012, , .		0
412	Portable real-time THz imaging setup based on QC lasers. , 2012, , .		0
413	Synchrotron Microspectroscopy of Quantum Cascade Laser Devices based on Quantum Wells and Quantum Dashes. , 2012, , .		0
414	Direct link of a mid-infrared quantum cascade laser to a frequency comb by optical injection. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
415	Mid-IR Broadband Quantum Cascade Laser Frequency-Comb. , 2012, , .		0
416	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
417	Mid-infrared frequency comb based on a quantum cascade laser. Nature, 2012, 492, 229-233.	13.7	645
418	Top-down fabricated silicon nanowires under tensile elastic strain up to 4.5%. Nature Communications, 2012, 3, 1096.	5.8	126
419	Quantum dot admittance probed at microwave frequencies with an on-chip resonator. Physical Review B, 2012, 86, .	1.1	56
420	Direct-Gap Gain and Optical Absorption in Germanium Correlated to the Density of Photoexcited Carriers, Doping, and Strain. Physical Review Letters, 2012, 109, 057402.	2.9	84
421	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
422	Direct surface cyclotron resonance terahertz emission from a quantum cascade structure. Applied Physics Letters, 2012, 100, .	1.5	9
423	Room-temperature transverse-electric polarized intersubband electroluminescence from InAs/AlInAs quantum dashes. Applied Physics Letters, 2012, 101, 261113.	1.5	12
424	Tuning the dynamic properties of electrons between a quantum well and quantum dots. Journal of Applied Physics, 2012, 112, 043702.	1.1	11
425	Room temperature terahertz polariton emitter. Applied Physics Letters, 2012, 101, .	1.5	50
426	Singlemode quantum cascade lasers with power dissipation below 1â€.W. Electronics Letters, 2012, 48, 646.	0.5	42
427	Nanowire and graphene architectures for Room Temperature THz detection. , 2012, , .		0
428	Photocurrent spectroscopy of site-controlled pyramidal quantum dots. Applied Physics Letters, 2012, 101, 031110.	1.5	3
429	Surface emitting Terahertz Photonic Crystal Quantum Cascade Laser realized by Bragg boundary condition. , 2012, , .		0
430	EC tuning of broadband QCL active region designs around 3.3 Åµm and 8 Åµm. , 2012, , .		0
431	Fully automatized quantum cascade laser design by genetic optimization. Applied Physics Letters, 2012, 101, .	1.5	44
432	Ultrastrong Coupling of the Cyclotron Transition of a 2D Electron Gas to a THz Metamaterial. Science, 2012, 335, 1323-1326.	6.0	452

#	ARTICLE	IF	CITATIONS
433	Ultrastrong Coupling Regime and Plasmon Polaritons in Parabolic Semiconductor Quantum Wells. Physical Review Letters, 2012, 108, 106402.	2.9	165
434	Sb-free quantum cascade lasers in the 3.4-4.1 μm spectral range. Semiconductor Science and Technology, 2012, 27, 045013.	1.0	26
435	Semiconductor nanowires for highly sensitive, room-temperature detection of terahertz quantum cascade laser emission. Applied Physics Letters, 2012, 100, .	1.5	50
436	Operation of a Wideband Terahertz Superconducting Bolometer Responding to Quantum Cascade Laser Pulses. Journal of Low Temperature Physics, 2012, 167, 911-916.	0.6	2
437	Junction-up mounted, mid-infrared emitting, continuous-wave DFB quantum cascade lasers with very low (< 900 mW) electrical dissipation at room temperature. , 2012, , .		0
438	Photo-Dember terahertz emitter excited with an Er: fiber laser. Applied Physics Letters, 2011, 98, .	1.5	37
439	Terahertz quantum cascade lasers: 10 years of active region and material progresses. , 2011, , .		0
440	The temperature dependence of key electro-optical characteristics for mid-infrared emitting quantum cascade lasers. Proceedings of SPIE, 2011, , .	0.8	19
441	Scattering processes in terahertz InGaAs/InAlAs quantum cascade lasers. , 2011, , .		0
442	Complex-coupled photonic crystal THz lasers with independent loss and refractive index modulation. Optics Express, 2011, 19, 10707.	1.7	55
443	Purcell effect in the inductor-capacitor laser. Optics Letters, 2011, 36, 2623.	1.7	16
444	Frequency noise of free-running 4.6 μm distributed feedback quantum cascade lasers near room temperature. Optics Letters, 2011, 36, 3109.	1.7	59
445	Loss mechanisms of quantum cascade lasers operating close to optical phonon frequencies. Journal of Applied Physics, 2011, 109, 102407.	1.1	14
446	Engineering conduction and valence band states in site-controlled pyramidal quantum dots. Applied Physics Letters, 2011, 98, 253102.	1.5	5
447	Influence of the growth temperature on the performances of strain-balanced quantum cascade lasers. Applied Physics Letters, 2011, 98, .	1.5	34
448	High power Sb-free quantum cascade laser emitting at 3.3 μm above 350 K. Applied Physics Letters, 2011, 98, .	1.5	40
449	Cyclotron emission in a THz quantum cascade structure. AIP Conference Proceedings, 2011, , .	0.3	0
450	Electroluminescence of quantum-dash-based quantum cascade laser structures. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
451	Broadband semiconductor terahertz laser based on heterogeneous cascades. , 2011, , .		1
452	THz Intersubband Polaritons in LC Resonator Structures. AIP Conference Proceedings, 2011, , .	0.3	0
453	Current quantization in an optically driven electron pump based on self-assembled quantum dots. Nature Physics, 2011, 7, 423-427.	6.5	13
454	InAs/AlInAs quantum-cascade structures with electroluminescence in the mid-infrared. Journal of Crystal Growth, 2011, 323, 491-495.	0.7	7
455	Buried-heterostructure phase-locked arrays of mid-infrared quantum cascade lasers. , 2011, , .		0
456	Ultra-broadband THz semiconductor laser based on heterogeneous quantum cascade gain medium. , 2011, , .		0
457	Strain-balanced quantum cascade lasers: influence of growth temperature on interface roughness and laser performance. , 2011, , .		0
458	Ultra-broadband heterogeneous quantum cascade laser emitting from 2.2 to 3.2 THz. Applied Physics Letters, 2011, 99, .	1.5	60
459	Room temperature terahertz intersubband polariton electroluminescence. , 2011, , .		0
460	Terahertz emitter based on the lateral photo-Dember effect excited with an Er: fiber laser. , 2011, , .		0
461	Broadband quantum cascade lasers for mid-infrared white light applications. , 2011, , .		0
462	Investigation of coherent acoustic phonons in THz quantum cascade laser structures. , 2011, , .		0
463	Strong coupling of the cyclotron transition of a 2DEG in a THz metamaterial. , 2011, , .		0
464	Strong coupling of the cyclotron transition of a 2DEG in a THz metamaterial. , 2011, , .		0
465	Strong coupling of the cyclotron transition of a 2DEG in a THz metamaterial. , 2011, , .		0
466	Ultra-broadband THz semiconductor laser based on heterogeneous quantum cascade gain medium. , 2011, , .		0
467	Surface-emitting THz sources based on difference-frequency generation in mid-infrared quantum cascade lasers. Proceedings of SPIE, 2010, , .	0.8	5
468	Intense terahertz generation based on the photo-Dember effect. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
469	Broadband THz lasing from a photon-phonon quantum cascade structure emitting from 2.8 to 4.1 THz. , 2010, , .		0
470	Quantum cascade laser oscillating in circuit-based resonator. , 2010, , .		0
471	Magnetically assisted quantum cascade laser emitting from 740 GHz to 1.4 THz. Applied Physics Letters, 2010, 97, 081110.	1.5	18
472	Recordâ€Low Inhomogeneous Broadening of Siteâ€Controlled Quantum Dots for Nanophotonics. Small, 2010, 6, 1268-1272.	5.2	77
473	Quasi-periodic distributed feedback laser. Nature Photonics, 2010, 4, 165-169.	15.6	99
474	Polarization-entangled photons produced with high-symmetry site-controlled quantum dots. Nature Photonics, 2010, 4, 302-306.	15.6	156
475	Electrically tunable, high performance quantum cascade laser. Applied Physics Letters, 2010, 96, .	1.5	52
476	Thermo-optic detection of terahertz radiation from a quantum cascade laser. Applied Physics Letters, 2010, 97, 251103.	1.5	6
477	Design and fabrication technology for high performance electrical pumped terahertz photonic crystal band edge lasers with complete photonic band gap. Journal of Applied Physics, 2010, 108, .	1.1	26
478	Midinfrared electroluminescence from InAs/InP quantum dashes. Applied Physics Letters, 2010, 97, 221109.	1.5	13
479	Strong light-matter coupling at terahertz frequencies at room temperature in electronic LC resonators. Applied Physics Letters, 2010, 97, .	1.5	48
480	High-power surface emission from terahertz distributed feedback lasers with a dual-slit unit cell. Applied Physics Letters, 2010, 96, .	1.5	42
481	Recent progress in THz quantum cascade lasers. , 2010, , .		0
482	Broadband quantum cascade lasers from white light sources to tunable broadband single mode sources. , 2010, , .		0
483	Ready for take-off. Nature Photonics, 2010, 4, 291-291.	15.6	12
484	X-shaped plasmonic antenna on a quantum cascade laser. Applied Physics Letters, 2010, 96, 151105.	1.5	6
485	Interview with Professor Jerome Faist. Electronics Letters, 2010, 46, S45.	0.5	0
486	Unified description of resonant tunnelling diodes and terahertz quantum cascade lasers. Electronics Letters, 2010, 46, S46.	0.5	8

#	ARTICLE	IF	CITATIONS
487	Mid-infrared emission of quantum-dash-based quantum cascade laser structures. , 2010, , .		0
488	Rate equations analysis of external-cavity quantum cascade lasers. Journal of Applied Physics, 2010, 107, .	1.1	8
489	External cavity quantum cascade laser. Semiconductor Science and Technology, 2010, 25, 083001.	1.0	189
490	Transmission Properties of Plasmonic Metamaterial Quantum Cascade Lasers. IEEE Photonics Technology Letters, 2010, 22, 1217-1219.	1.3	3
491	Terahertz emission from lateral photo-Dember currents. Optics Express, 2010, 18, 4939.	1.7	123
492	Low divergence Terahertz photonic-wire laser. Optics Express, 2010, 18, 6390.	1.7	75
493	Broadband THz lasing from a photon-phonon quantum cascade structure. Optics Express, 2010, 18, 8043.	1.7	70
494	Gain competition in dual wavelength quantum cascade lasers. Optics Express, 2010, 18, 9900.	1.7	28
495	A density matrix model of transport and radiation in quantum cascade lasers. New Journal of Physics, 2010, 12, 033045.	1.2	118
496	Microcavity Laser Oscillating in a Circuit-Based Resonator. Science, 2010, 327, 1495-1497.	6.0	126
497	Scattering processes in terahertz InGaAs/InAlAs quantum cascade lasers. Applied Physics Letters, 2010, 97, 221114.	1.5	31
498	THz inter-Landau level emission in a quantum cascade structure. , 2010, , .		0
499	Asymmetric heterostructure for photovoltaic InAs quantum dot infrared photodetector. Applied Physics Letters, 2010, 97, .	1.5	24
500	Gain competition in multicolor Quantum Cascade Lasers. , 2010, , .		0
501	Low divergence single mode edge emitting double metal Terahertz Quantum Cascade Laser. , 2009, , .		0
502	InP based terahertz quantum cascade lasers with 4 quantum well active region design. , 2009, , .		0
503	Spectroscopic determination of the doping and mobility of terahertz quantum cascade structures. Journal of Applied Physics, 2009, 106, .	1.1	10
504	Entangled photons produced with high-symmetry site-controlled quantum dots. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
505	In-plane and surface emitting high performance THz pillar type photonic crystal lasers with complete photonic bandgaps. , 2009, , .		0
506	∼1meV inhomogeneous broadening of large area (∼cm<sup>2</sup>)<sup>2</sup>) arrays of site-controlled pyramidal quantum dots. , 2009, , .		0
507	Gain measurements in strain-compensated quantum cascade laser. Applied Physics Letters, 2009, 94, 161114.	1.5	12
508	InP based, terahertz quantum cascade lasers with 4 quantum well active region design. , 2009, , .		0
509	Broadband external cavity quantum cascade laser. , 2009, , .		0
510	External cavity quantum cascade laser tunable from 7.6 to 11.4—m. Applied Physics Letters, 2009, 95, .	1.5	207
511	Distributed feedback ring resonators for vertically emitting terahertz quantum cascade lasers. , 2009, , .		0
512	Entering the mid-infrared. Nature Photonics, 2009, 3, 32-34.	15.6	12
513	Gain/loss device study of narrow-ridge buried heterostructure quantum cascade lasers using broadband infrared transmission. , 2009, , .		0
514	Ultrafast electronic transport in low dimensional semiconductor nanostructures. Proceedings of SPIE, 2009, , .	0.8	0
515	Hot electron effects and nanoscale heat transfer in Terahertz quantum cascade lasers. Proceedings of SPIE, 2009, , .	0.8	2
516	Broadband Distributed Feedback Quantum Cascade Laser Array Using A Heterogeneous Cascade. , 2009, , .		1
517	THz and sub—THz quantum cascade lasers. Laser and Photonics Reviews, 2009, 3, 45-66.	4.4	234
518	Vertically emitting microdisk lasers. Nature Photonics, 2009, 3, 46-49.	15.6	119
519	Lasing high in k-space. Nature Photonics, 2009, 3, 11-12.	15.6	2
520	Low-divergence single-mode terahertz quantum cascade laser. Nature Photonics, 2009, 3, 586-590.	15.6	205
521	Terahertz quantum cascade lasers based on. Journal of Crystal Growth, 2009, 311, 1939-1943.	0.7	23
522	Modeling of dark current in mid-infrared quantum-well infrared photodetectors. Infrared Physics and Technology, 2009, 52, 220-223.	1.3	3

#	ARTICLE	IF	CITATIONS
523	Quadratic detection with two-photon quantum well infrared photodetectors. Infrared Physics and Technology, 2009, 52, 419-423.	1.3	7
524	Probing quantum efficiency by laser-induced hot-electron cooling. Applied Physics Letters, 2009, 94, 021115.	1.5	21
525	Surface Plasmon Resonance sensor showing enhanced sensitivity for CO ₂ detection in the mid-infrared range. Optics Express, 2009, 17, 293.	1.7	82
526	Phase locking of a 15 Terahertz quantum cascade laser and use as a local oscillator in a heterodyne HEB receiver. Optics Express, 2009, 17, 1159.	1.7	98
527	Distributed feedback ring resonators for vertically emitting terahertz quantum cascade lasers. Optics Express, 2009, 17, 13031.	1.7	31
528	Coupling terahertz radiation between sub-wavelength metal-metal waveguides and free space using monolithically integrated horn antennae. Optics Express, 2009, 17, 18387.	1.7	23
529	Hot-electron cooling in THz quantum cascade lasers. , 2009, , .		0
530	Correlation between laser-induced hot-electron cooling and quantum efficiency in THz quantum cascade lasers. , 2009, , .		0
531	Broadband Distributed-Feedback Quantum Cascade Laser Array Operating From 8.0 to 9.8 μm . IEEE Photonics Technology Letters, 2009, 21, 914-916.	1.3	63
532	Bound-to-continuum terahertz quantum cascade laser with a single-quantum-well phonon extraction/injection stage. New Journal of Physics, 2009, 11, 125022.	1.2	153
533	Multi-beam multi-wavelength semiconductor lasers. Applied Physics Letters, 2009, 95, .	1.5	21
534	Modelling transport in quantum cascade lasers: A comparison between theory and experiment. , 2009, , .		0
535	Step well quantum cascade laser emitting at 3 THz. Applied Physics Letters, 2009, 94, 041114.	1.5	29
536	Quantum Cascade Detectors. IEEE Journal of Quantum Electronics, 2009, 45, 1039-1052.	1.0	175
537	Time-Resolved Investigations of Electronic Transport Dynamics in Quantum Cascade Lasers Based on Diagonal Lasing Transition. IEEE Journal of Quantum Electronics, 2009, 45, 307-321.	1.0	16
538	Distributed-Feedback Quantum-Cascade Lasers at 9 μm Operating in Continuous Wave Up to 423 K. IEEE Photonics Technology Letters, 2009, 21, 814-816.	1.3	56
539	Modeling of dark current in midinfrared quantum well infrared photodetectors. Physical Review B, 2009, 79, .	1.1	14
540	Bloch gain in quantum cascade lasers at high temperature. Applied Physics Letters, 2009, 94, 031102.	1.5	2

#	ARTICLE	IF	CITATIONS
541	Terahertz conductivity of magnetoexcitons and electrons in semiconductor nanostructures. , 2009, , .		0
542	Low threshold step well quantum cascade laser emitting at 3 THz. , 2009, , .		0
543	Widely tunable mode-hop free external cavity quantum cascade lasers for high resolution spectroscopy and chemical sensing. Applied Physics B: Lasers and Optics, 2008, 92, 305-311.	1.1	202
544	Femtosecond pump-probe studies of carrier transport and gain dynamics in quantum cascade lasers. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 225-228.	0.8	2
545	Terahertz quantum cascade lasers with quasi-periodic resonators. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2176-2178.	1.3	0
546	Time-resolved IR spectroscopy of quantum-optics in semiconductors. Infrared Physics and Technology, 2008, 51, 454-457.	1.3	0
547	Sequential resonant tunneling in quantum cascade lasers. Physical Review B, 2008, 78, .	1.1	34
548	Multimode regimes in quantum cascade lasers: From coherent instabilities to spatial hole burning. Physical Review A, 2008, 77, .	1.0	184
549	Short wavelength (4 μ m) quantum cascade detector based on strain compensated InGaAs \cdot InAlAs. Applied Physics Letters, 2008, 92, .	1.5	37
550	Real-time imaging using a 28 THz quantum cascade laser and uncooled infrared microbolometer camera. Optics Letters, 2008, 33, 440.	1.7	128
551	Room temperature terahertz quantum cascade laser source based on intracavity difference-frequency generation. Applied Physics Letters, 2008, 92, .	1.5	199
552	Terahertz quantum cascade lasers based on two-dimensional photonic crystal resonators. Optics Express, 2008, 16, 5206.	1.7	53
553	High-Performance Bound-to-Continuum Quantum-Cascade Lasers for Broad-Gain Applications. IEEE Journal of Quantum Electronics, 2008, 44, 36-40.	1.0	60
554	Heterogeneous High-Performance Quantum-Cascade Laser Sources for Broad-Band Tuning. IEEE Journal of Quantum Electronics, 2008, 44, 1083-1088.	1.0	58
555	Large cavity quantum cascade lasers with InP interstacks. Applied Physics Letters, 2008, 93, .	1.5	28
556	Optimization of a 3.6-THz quantum cascade laser for real-time imaging with a microbolometer focal plane array. Proceedings of SPIE, 2008, , .	0.8	0
557	A terahertz quantum cascade laser grown by low-pressure metalorganic vapor phase epitaxy. Applied Physics Letters, 2008, 92, .	1.5	16
558	Surface-emitting terahertz quantum cascade laser source based on intracavity difference-frequency generation. Applied Physics Letters, 2008, 93, 161110.	1.5	26

#	ARTICLE	IF	CITATIONS
559	Intersubband linewidths in quantum cascade laser designs. Applied Physics Letters, 2008, 93, .	1.5	89
560	3.4 THz heterodyne receiver using a hot electron bolometer and a distributed feedback quantum cascade laser. Journal of Applied Physics, 2008, 104, .	1.1	26
561	Room-temperature midinfrared two-photon photodetector. Applied Physics Letters, 2008, 93, .	1.5	13
562	Femtosecond dynamics of resonant tunneling and superlattice relaxation in quantum cascade lasers. Applied Physics Letters, 2008, 92, 122114.	1.5	27
563	Gain Recovery Dynamics and Photon-Driven Transport in Quantum Cascade Lasers. Physical Review Letters, 2008, 100, 167401.	2.9	85
564	Correlation between the subband electronic temperatures and the internal quantum efficiency of THz quantum cascade lasers. , 2008, , .		0
565	Vertically emitting microdisk lasers. , 2008, , .		1
566	Microwatt-level terahertz sources based on intra-cavity difference-frequency generation in mid-infrared quantum cascade lasers. , 2008, , .		3
567	Gain measurements in quantum cascade lasers at high temperatures. , 2008, , .		0
568	Bloch gain in quantum cascade lasers. Proceedings of SPIE, 2008, , .	0.8	0
569	THz quantum cascade lasers grown by low-pressure metalorganic vapor phase epitaxy. , 2008, , .		0
570	Terahertz quantum cascade lasers: design and applications. , 2008, , .		0
571	Progress in Quantum Cascade Lasers. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 171-192.	0.2	13
572	Surface plasmon resonance spectroscopy in the mid-infrared range. , 2008, , .		1
573	Photon-Driven Transport in Quantum Cascade Lasers. , 2007, , .		0
574	Electrical and Optical Characterization of Microdisk Quantum Cascade Lasers emitting at Terahertz Frequencies. , 2007, , .		0
575	Horn antennas for terahertz quantum cascade lasers. Electronics Letters, 2007, 43, 573.	0.5	78
576	Low-consumption (below 2â€..W) continuous-wave singlemode quantum-cascade lasers grown by metal-organic vapour-phase epitaxy. Electronics Letters, 2007, 43, 1201.	0.5	15

#	ARTICLE	IF	CITATIONS
577	Recent progress on long wavelength quantum cascade lasers between 1-2 THz. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	5
578	GREAT: the German first light heterodyne instrument for SOFIA. Proceedings of SPIE, 2007, , .	0.8	1
579	Long wavelength Terahertz Quantum Cascade Lasers, emitting down to 1.2 THz. , 2007, , .		0
580	Influence of InAs, AlAs δ layers on the optical, electronic, and thermal characteristics of strain-compensated GaInAs δ /AlInAs quantum-cascade lasers. Applied Physics Letters, 2007, 91, .	1.5	43
581	Multi-wavelength operation and vertical emission in THz quantum-cascade lasers. Journal of Applied Physics, 2007, 101, 081726.	1.1	13
582	A 1 THz quantum cascade laser in strong magnetic field. , 2007, , .		0
583	Intersubband Raman laser from GaInAs δ /AlInAs double quantum wells. Applied Physics Letters, 2007, 91, 131108.	1.5	26
584	Small optical volume terahertz emitting microdisk quantum cascade lasers. Applied Physics Letters, 2007, 90, 141114.	1.5	62
585	Wallplug efficiency of quantum cascade lasers: Critical parameters and fundamental limits. Applied Physics Letters, 2007, 90, 253512.	1.5	120
586	Near room temperature continuous wave operation of an external cavity quantum cascade laser. , 2007, , .		0
587	Electron Scattering Spectroscopy by High Magnetic Field in Mid-Infrared Quantum Cascade Lasers. AIP Conference Proceedings, 2007, , .	0.3	1
588	High-performance continuous wave quantum cascade lasers with widely spaced operation frequencies. , 2007, , .		0
589	Room-temperature continuous-wave operation of an external-cavity quantum cascade laser. Optics Letters, 2007, 32, 2792.	1.7	42
590	Design and fabrication of photonic crystal quantum cascade lasers for optofluidics. Optics Express, 2007, 15, 4499.	1.7	31
591	Terahertz photonic crystal quantum cascade lasers. Optics Express, 2007, 15, 16818.	1.7	119
592	Inter-Landau level scattering and LO-phonon emission in terahertz quantum cascade laser. Applied Physics Letters, 2007, 91, .	1.5	18
593	16.5 μ m quantum cascade detector using miniband transport. Applied Physics Letters, 2007, 90, 231111.	1.5	42
594	Detection of 3.4 THz radiation from a quantum cascade laser using a microbolometer infrared camera. , 2007, , .		12

#	ARTICLE	IF	CITATIONS
595	Second harmonic generation in (111)-oriented InP-based quantum cascade laser. Journal of Applied Physics, 2007, 101, 103107.	1.1	18
596	Coherent instabilities in a semiconductor laser with fast gain recovery. Physical Review A, 2007, 75, .	1.0	117
597	Widely tunable single-mode quantum cascade laser source for mid-infrared spectroscopy. Applied Physics Letters, 2007, 91, .	1.5	190
598	Observation of Photon-driven Electronic Transport in Quantum Cascade Lasers. , 2007, , .		0
599	Widely Tunable, High Power, Mode-hop Free, CW External Cavity Quantum Cascade Laser at 8.4µm. , 2007, , .		1
600	Quantum cascade lasers operating from 1.2to1.6THz. Applied Physics Letters, 2007, 91, .	1.5	288
601	Time-Resolved Studies of Gain Dynamics in Quantum Cascade Laser. AIP Conference Proceedings, 2007, , .	0.3	1
602	Bloch gain in quantum cascade lasers. Nature Physics, 2007, 3, 329-333.	6.5	72
603	Population inversion by resonant tunneling in quantum wells. Applied Physics Letters, 2007, 91, .	1.5	35
604	Strong confinement in terahertz intersubband lasers by intense magnetic fields. Physical Review B, 2007, 76, .	1.1	22
605	5.1µm Intersubband Raman Laser from GaInAs/AlInAs double Quantum Wells. AIP Conference Proceedings, 2007, , .	0.3	0
606	Progress in Long Wavelength Quantum Cascade Lasers. , 2007, , .		0
607	Doping in quantum cascade lasers. I. InAlAs/InGaAs/InP midinfrared devices. Journal of Applied Physics, 2006, 100, 043101.	1.1	51
608	Vertical emitting Terahertz Quantum Cascade Lasers based on photonic crystal cavities. , 2006, , .		0
609	External cavity quantum-cascade laser tunable from 8.2to10.4µm using a gain element with a heterogeneous cascade. Applied Physics Letters, 2006, 88, 201113.	1.5	133
610	Recent Progress in Long Wavelength Quantum Cascade Lasers. , 2006, , .		0
611	Trace Sensing with Miniaturized Mid-Infrared Sensors. , 2006, , .		3
612	A THz quantum cascade detector in a strong perpendicular magnetic field. Semiconductor Science and Technology, 2006, 21, 1743-1746.	1.0	15

#	ARTICLE	IF	CITATIONS
613	Fabrication and Characterization of Molecular Beam Epitaxy Grown Thin-Film GaAs Waveguides for Mid-Infrared Evanescent Field Chemical Sensing. <i>Analytical Chemistry</i> , 2006, 78, 4224-4227.	3.2	66
614	Biomedical terahertz imaging with a quantum cascade laser. <i>Applied Physics Letters</i> , 2006, 88, 153903.	1.5	133
615	Quantum cascade lasers with large optical waveguides. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 544-546.	1.3	24
616	23GHz operation of a room temperature photovoltaic quantum cascade detector at 5.35 μ m. <i>Applied Physics Letters</i> , 2006, 89, 061119.	1.5	56
617	Direct measurement of the linewidth enhancement factor by optical heterodyning of an amplitude-modulated quantum cascade laser. <i>Applied Physics Letters</i> , 2006, 89, 091121.	1.5	76
618	Bio-medical imaging with a terahertz quantum cascade laser. , 2006, , .		1
619	Room temperature, continuous wave operation of distributed feedback quantum cascade lasers with widely spaced operation frequencies. <i>Applied Physics Letters</i> , 2006, 89, 141116.	1.5	51
620	Mid-infrared single-photon counting. <i>Optics Letters</i> , 2006, 31, 1094.	1.7	50
621	Characterization of a near-room-temperature, continuous-wave quantum cascade laser for long-term, unattended monitoring of nitric oxide in the atmosphere. <i>Optics Letters</i> , 2006, 31, 2012.	1.7	56
622	Doppler-free saturated-absorption spectroscopy of CO ₂ at 43 μ m by means of a distributed feedback quantum cascade laser. <i>Optics Letters</i> , 2006, 31, 3040.	1.7	25
623	Continuous-Wave, Room-Temperature Quantum Cascade Lasers. <i>Optics and Photonics News</i> , 2006, 17, 32.	0.4	15
624	Turn-key compact high temperature terahertz quantum cascade lasers: imaging and room temperature detection. <i>Optics Express</i> , 2006, 14, 1829.	1.7	41
625	Microfluidic tuning of distributed feedback quantum cascade lasers. <i>Optics Express</i> , 2006, 14, 11660.	1.7	38
626	Mid-infrared quantum cascade detectors on InP. , 2006, , .		1
627	Room-temperature continuous-wave single-mode quantum cascade lasers. , 2006, 6133, 613301.		2
628	Gain without inversion in semiconductor nanostructures. <i>Nature Materials</i> , 2006, 5, 175-178.	13.3	237
629	Sub-ppbv nitric oxide concentration measurements using cw thermoelectrically cooled quantum cascade laser-based integrated cavity output spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2006, 82, 149-154.	1.1	122
630	Comparison of cw and pulsed operation with a TE-cooled quantum cascade infrared laser for detection of nitric oxide at 1900 cm^{-1} . <i>Applied Physics B: Lasers and Optics</i> , 2006, 85, 235-241.	1.1	64

#	ARTICLE	IF	CITATIONS
631	Tuning the intersubband absorption in strained AlAsSb ^x InGaAs quantum wells towards the telecommunications wavelength range. Journal of Applied Physics, 2006, 100, 116104.	1.1	16
632	Strategies to Improve Optical Gain and Waveguide Loss in Strain-Compensated SiGe Quantum Cascade Mid-Infrared Emitters. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1642-1646.	1.9	9
633	Photonic lattice-based quantum cascade lasers at terahertz frequencies. , 2006, , .		1
634	Electrically switchable, two-color quantum cascade laser emitting at 1.39 and 2.3THz. Applied Physics Letters, 2006, 88, 141102.	1.5	72
635	InP-based quantum cascade detectors in the mid-infrared. Applied Physics Letters, 2006, 88, 241118.	1.5	72
636	External cavity quantum-cascade laser tunable from 8.2 to 10.4 μm using an inhomogenously broadened gain element. , 2006, , .		1
637	Coherent instabilities and self-pulsations in Quantum Cascade Lasers. , 2006, , .		0
638	Long wavelength, multi frequency THz quantum cascade lasers. , 2006, , .		0
639	Doping in quantum cascade lasers. II. GaAs ^x Al _{0.15} Ga _{0.85} As terahertz devices. Journal of Applied Physics, 2006, 100, 043102.	1.1	29
640	SiGe Quantum Cascade Structures: Physics, Growth and Technology. , 2006, , .		0
641	Comparative Analysis of Bio-Medical Imaging at 3.7 Terahertz with a High Power Quantum Cascade Laser. , 2006, , .		0
642	Role of elastic scattering mechanisms in GaInAs ^x AlInAs quantum cascade lasers. Applied Physics Letters, 2006, 89, 172120.	1.5	45
643	Positive Cross Correlations in a Normal-Conducting Fermionic Beam Splitter. Physical Review Letters, 2006, 96, 046804.	2.9	43
644	Ultrafast gain dynamics in a quantum cascade laser. , 2006, , .		0
645	Low frequency terahertz quantum cascade laser operating from 1.6to1.8THz. Applied Physics Letters, 2006, 89, 231121.	1.5	112
646	Novel photonic crystal quantum cascade laser platform. , 2006, , .		1
647	Broadly-tunable external cavity quantum-cascade lasers. , 2005, , .		1
648	Dual-wavelength THz imaging with quantum cascade lasers. , 2005, 5727, 107.		7

#	ARTICLE	IF	CITATIONS
649	Imaging with a terahertz quantum cascade laser for biomedical applications. , 2005, 6010, 114.		1
650	InP and GaAs-Based Quantum Cascade Lasers. , 2005, , 217-278.		12
651	MBE growth of terahertz quantum cascade lasers. Journal of Crystal Growth, 2005, 278, 756-764.	0.7	33
652	Transport and absorption in strain-compensated Si/Si ^{1-x} Ge ^x multiple quantum well and cascade structures deposited on Si _{0.5} Ge _{0.5} pseudosubstrates. Materials Science in Semiconductor Processing, 2005, 8, 401-409.	1.9	3
653	Detection of mid-IR radiation by sum frequency generation for free space optical communication. Optics and Lasers in Engineering, 2005, 43, 537-544.	2.0	30
654	Room-temperature, continuous-wave, single-mode quantum-cascade lasers at $\lambda = 5.4 \mu\text{m}$. Applied Physics Letters, 2005, 86, 041109.	1.5	114
655	Silicon shines on. Nature, 2005, 433, 691-692.	13.7	47
656	Widely tunable mode-hop free external cavity quantum cascade laser for high resolution spectroscopic applications. Applied Physics B: Lasers and Optics, 2005, 81, 769-777.	1.1	214
657	Loss-coupled distributed feedback far-infrared quantum cascade lasers. Electronics Letters, 2005, 41, 419.	0.5	23
658	High-power spatial singlemode quantum cascade lasers at $8.9 \mu\text{m}$. Electronics Letters, 2005, 41, 418.	0.5	3
659	Terahertz quantum cascade laser emitting at $160 \mu\text{m}$ in strong magnetic field. AIP Conference Proceedings, 2005, , .	0.3	0
660	Terahertz bound-to-continuum quantum-cascade lasers based on optical-phonon scattering extraction. Applied Physics Letters, 2005, 86, 181101.	1.5	83
661	Interface-roughness-induced broadening of intersubband electroluminescence in p-SiGe and n-GaInAs/AlInAs quantum-cascade structures. Applied Physics Letters, 2005, 86, 062113.	1.5	83
662	Coherency induced optical gain without population inversion in quantum wells. , 2005, , .		0
663	InGaAs/AlInAs/InP terahertz quantum cascade laser. Applied Physics Letters, 2005, 87, 141107.	1.5	56
664	High power $\lambda = 9 \mu\text{m}$ quantum cascade lasers. , 2005, , .		0
665	High-power room temperature emission quantum cascade lasers at $\lambda = 9 \mu\text{m}$. IEEE Journal of Quantum Electronics, 2005, 41, 1430-1438.	1.0	25
666	Imaging at 34 THz with a quantum-cascade laser. Applied Optics, 2005, 44, 121.	2.1	21

#	ARTICLE	IF	CITATIONS
667	Design, fabrication and optical characterization of quantum cascade lasers at terahertz frequencies using photonic crystal reflectors. Optics Express, 2005, 13, 8960.	1.7	87
668	Continuous-wave operation of a broadly tunable thermoelectrically cooled external cavity quantum-cascade laser. Optics Letters, 2005, 30, 2584.	1.7	73
669	ac Stark Splitting and Quantum Interference with Intersubband Transitions in Quantum Wells. Physical Review Letters, 2005, 94, 157403.	2.9	202
670	Terahertz quantum cascade lasers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 215-231.	1.6	16
671	High power quantum cascade lasers operating at $\lambda = 87$ and $130\frac{1}{4}\mu\text{m}$. Applied Physics Letters, 2004, 85, 3986-3988.	1.5	80
672	Anticrossing between heavy-hole states in Si _{0.2} Ge _{0.8} /Si-coupled quantum wells grown on Si _{0.5} Ge _{0.5} pseudosubstrate. Applied Physics Letters, 2004, 84, 2497-2499.	1.5	5
673	Terahertz Emission from Quantum Cascade Lasers in the Quantum Hall Regime: Evidence for Many Body Resonances and Localization Effects. Physical Review Letters, 2004, 93, 237403.	2.9	80
674	Recent Results on the Road to a SiGe Quantum Cascade Laser. Materials Research Society Symposia Proceedings, 2004, 832, 188.	0.1	2
675	Terahertz range quantum well infrared photodetector. Applied Physics Letters, 2004, 84, 475-477.	1.5	195
676	Ozone detection by differential absorption spectroscopy at ambient pressure with a $9.6\frac{1}{2}\mu\text{m}$ pulsed quantum-cascade laser. Applied Physics B: Lasers and Optics, 2004, 78, 249-256.	1.1	21
677	Mid-infrared trace-gas sensing with a quasi-continuous-wave Peltier-cooled distributed feedback quantum cascade laser. Applied Physics B: Lasers and Optics, 2004, 79, 907-913.	1.1	71
678	Broadband tuning of external cavity bound-to-continuum quantum-cascade lasers. Applied Physics Letters, 2004, 84, 1659-1661.	1.5	150
679	Imaging with a Terahertz quantum cascade laser. Optics Express, 2004, 12, 1879.	1.7	145
680	Application of terahertz quantum-cascade lasers to semiconductor cyclotron resonance. Optics Letters, 2004, 29, 122.	1.7	18
681	Linewidth and tuning characteristics of terahertz quantum cascade lasers. Optics Letters, 2004, 29, 575.	1.7	125
682	Heterodyne mixing of two far-infrared quantum cascade lasers by use of a point-contact Schottky diode. Optics Letters, 2004, 29, 1632.	1.7	60
683	Photonic-crystal lasers light up. Physics World, 2004, 17, 27-27.	0.0	0
684	Room-temperature CW operation of $(\lambda = 9\frac{1}{4}\mu\text{m})$ InP-based quantum cascade lasers. , 2004, , .		0

#	ARTICLE	IF	CITATIONS
685	High-power and single-frequency quantum cascade lasers for gas sensing. , 2004, , .		3
686	Population inversion by resonant magnetic confinement in terahertz quantum-cascade lasers. Applied Physics Letters, 2003, 83, 3453-3455.	1.5	18
687	Spectroscopic study of the $\hat{1}/21$ band of SO ₂ using a continuous-wave DFB QCL at 9.1 $\hat{1}/4$ m. Applied Physics B: Lasers and Optics, 2003, 77, 703-706.	1.1	26
688	Continuous wave operation of quantum cascade lasers. Journal of Crystal Growth, 2003, 251, 697-700.	0.7	6
689	Strain compensated Si/SiGe quantum well and quantum cascade on Si _{0.5} Ge _{0.5} pseudosubstrate. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 315-320.	1.3	4
690	Strain-compensated Si/Si _{0.2} Ge _{0.8} quantum cascade structures grown on Si _{0.5} Ge _{0.5} pseudo-substrates. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 613-617.	1.3	0
691	Strain Compensated Si/Sige Quantum Cascade Emitters Grown On Sige Pseudosubstrates. , 2003, , 325-330.		0
692	Free-running 91- \hat{A} um distributed-feedback quantum cascade laser linewidth measurement by heterodyning with a C ¹⁸ O ₂ laser. Optics Letters, 2003, 28, 704.	1.7	24
693	Far-infrared ($\hat{1}\hat{1}\hat{1}\hat{1}$ um) bound-to-continuum quantum-cascade lasers operating up to 90 K. Applied Physics Letters, 2003, 82, 3165-3167.	1.5	219
694	Intersubband gain in a Bloch oscillator and quantum cascade laser. Physical Review B, 2003, 67, .	1.1	118
695	Continuous-wave distributed-feedback quantum-cascade lasers on a Peltier cooler. Applied Physics Letters, 2003, 83, 1929-1931.	1.5	53
696	Digital alloy interface grading of an InAlAs/InGaAs quantum cascade laser structure studied by cross-sectional scanning tunneling microscopy. Applied Physics Letters, 2003, 83, 4131-4133.	1.5	28
697	High Performance Quantum Cascade Lasers and Their Applications. , 2003, , 61-98.		15
698	Digital Alloy InGaAs/InAlAs Laser Structures Studied by Cross-Sectional Scanning Tunneling Microscopy. AIP Conference Proceedings, 2003, , .	0.3	1
699	Recent advances in quantum cascade laser research and novel applications. , 2003, , .		0
700	Continuous-wave operation of quantum cascade laser emitting near 5.6 \hat{A} €...[micro sign]m. Electronics Letters, 2003, 39, 1123.	0.5	8
701	Quantum-cascade-laser structures as photodetectors. Applied Physics Letters, 2002, 81, 2683-2685.	1.5	112
702	Low-threshold terahertz quantum-cascade lasers. Applied Physics Letters, 2002, 81, 1381-1383.	1.5	203

#	ARTICLE	IF	CITATIONS
703	Intersubband absorption performed on p-type modulation-doped Si _{0.2} Ge _{0.8} /Si quantum wells grown on Si _{0.5} Ge _{0.5} pseudosubstrate. Applied Physics Letters, 2002, 80, 3274-3276.	1.5	27
704	Electroluminescence from strain-compensated Si _{0.2} Ge _{0.8} /Si quantum-cascade structures based on a bound-to-continuum transition. Applied Physics Letters, 2002, 81, 4700-4702.	1.5	87
705	Terahertz intersubband emission in strong magnetic fields. Applied Physics Letters, 2002, 81, 67-69.	1.5	26
706	Chemical sensors based on quantum cascade lasers. , 2002, , .		1
707	Quantum cascade lasers for open- and closed-path measurement of trace gases. , 2002, 4817, 22.		21
708	Continuous-wave operation of quantum cascade lasers above room temperature. , 2002, , .		0
709	Continuous-wave operation of far-infrared quantum cascade lasers. Electronics Letters, 2002, 38, 1675.	0.5	55
710	High-performance quantum cascade lasers: physics and applications. , 2002, , .		6
711	Mid-infrared external-cavity quantum-cascade laser. Optics Letters, 2002, 27, 1788.	1.7	45
712	Midinfrared intersubband absorption on AlGaIn/GaN-based high-electron-mobility transistors. Applied Physics Letters, 2002, 80, 2991-2993.	1.5	31
713	Bound-to-continuum and two-phonon resonance, quantum-cascade lasers for high duty cycle, high-temperature operation. IEEE Journal of Quantum Electronics, 2002, 38, 533-546.	1.0	215
714	Chemical sensing with pulsed QC-DFB lasers operating at 15.6 μ m. Applied Physics B: Lasers and Optics, 2002, 75, 351-357.	1.1	36
715	Si/SiGe quantum cascade structures emitting in the 10 μ m range. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 89, 30-35.	1.7	3
716	Intersubband quantum cascades in the Si/SiGe material system. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 829-834.	1.3	5
717	Terahertz interminiband emission and magneto-transport measurements from a quantum cascade chirped superlattice. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 854-857.	1.3	6
718	Continuous Wave Operation of a Mid-Infrared Semiconductor Laser at Room Temperature. Science, 2002, 295, 301-305.	6.0	722
719	Photoacoustic spectroscopy with quantum cascade distributed-feedback lasers. Optics Letters, 2001, 26, 887.	1.7	102
720	Quantum-cascade lasers based on a bound-to-continuum transition. Applied Physics Letters, 2001, 78, 147-149.	1.5	234

#	ARTICLE	IF	CITATIONS
721	Characterization and modeling of quantum cascade lasers based on a photon-assisted tunneling transition. IEEE Journal of Quantum Electronics, 2001, 37, 448-455.	1.0	24
722	Continuous wave operation of a 9.3 μm quantum cascade laser on a Peltier cooler. Applied Physics Letters, 2001, 78, 1964-1966.	1.5	111
723	High-temperature operation of distributed feedback quantum-cascade lasers at 5.3 μm . Applied Physics Letters, 2001, 78, 396-398.	1.5	154
724	Valence band intersubband electroluminescence from Si/SiGe quantum cascade structures. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 11, 240-244.	1.3	4
725	Mobile photoacoustic trace-gas monitoring using high power quantum cascade lasers as pump sources operated near room temperature. , 2001, , .		0
726	Free-space optical data link using Peltier-cooled quantum cascade laser. Electronics Letters, 2001, 37, 778.	0.5	86
727	Intersubband-electroluminescence from Si/SiGe quantum cascade structures. , 2001, , .		1
728	High power (>400 mW) long wavelength 16 μm room temperature quantum cascade laser. , 2001, , .		1
729	Application of the quantum cascade laser principle to the Si/SiGe material system. , 2001, , .		1
730	Measurement of far-infrared waveguide loss using a multisection single-pass technique. Applied Physics Letters, 2001, 78, 1967-1969.	1.5	39
731	In-the-field optical data link using a high frequency-modulated Peltier-cooled quantum cascade laser operated at 50% duty cycle. , 2001, , .		0
732	Quantum cascade laser operation with high duty cycle. , 2001, , .		0
733	Long-wavelength ($\approx 16 \mu\text{m}$), room-temperature, single-frequency quantum-cascade lasers based on a bound-to-continuum transition. Applied Physics Letters, 2001, 79, 4271-4273.	1.5	58
734	Far-infrared intersubband luminescence from quantum cascade sources. , 2001, , 89-100.		0
735	Quantum cascade lasers: between intersubband physics and applications. , 2000, 3944, 330.		0
736	Edge- and surface-emitting quantum cascade distributed feedback lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 25-28.	1.3	3
737	Electrically pumped Terahertz quantum well sources. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 44-47.	1.3	15
738	Long-wavelength ($\approx 10.5 \mu\text{m}$) quantum cascade lasers based on a photon-assisted tunneling transition in strong magnetic field. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 33-36.	1.3	15

#	ARTICLE	IF	CITATIONS
739	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
740	Mid-Infrared Quantum Cascade Lasers for Flow Injection Analysis. <i>Analytical Chemistry</i> , 2000, 72, 1645-1648.	3.2	59
741	High-performance ($\lambda/10.4 \mu\text{m}$) buried heterostructure quantum cascade lasers. , 2000, , .		0
742	Midinfrared emission from InGaN/GaN-based light-emitting diodes. <i>Applied Physics Letters</i> , 2000, 76, 1495-1497.	1.5	12
743	Long-wavelength ($\lambda=10 \mu\text{m}$) quadrupolar-shaped GaAs-AlGaAs microlasers. <i>IEEE Journal of Quantum Electronics</i> , 2000, 36, 458-464.	1.0	38
744	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
745	APPLIED PHYSICS: Smaller, Faster Midinfrared Lasers. , 2000, 290, 1713-1714.		2
746	Intersubband Electroluminescence from Silicon-Based Quantum Cascade Structures. <i>Science</i> , 2000, 290, 2277-2280.	6.0	272
747	High average power first-order distributed feedback quantum cascade lasers. <i>IEEE Photonics Technology Letters</i> , 2000, 12, 1610-1612.	1.3	20
748	A quantum cascade laser based on an n-i-p-i superlattice. <i>IEEE Photonics Technology Letters</i> , 2000, 12, 263-265.	1.3	11
749	Buried heterostructure quantum cascade lasers with a large optical cavity waveguide. <i>IEEE Photonics Technology Letters</i> , 2000, 12, 1450-1452.	1.3	40
750	Chapter 2 Quantum Interference Effects in Intersubband Transitions. <i>Semiconductors and Semimetals</i> , 1999, 62, 101-128.	0.4	3
751	Surface-emitting $10.1 \mu\text{m}$ quantum-cascade distributed feedback lasers. <i>Applied Physics Letters</i> , 1999, 75, 3769-3771.	1.5	80
752	Low-loss Al-free waveguides for unipolar semiconductor lasers. <i>Applied Physics Letters</i> , 1999, 75, 3911-3913.	1.5	125
753	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
754	Electrically tunable, room-temperature quantum-cascade lasers. <i>Applied Physics Letters</i> , 1999, 75, 1509-1511.	1.5	36
755	Chapter 1 Quantum Cascade Laser. <i>Semiconductors and Semimetals</i> , 1999, , 1-83.	0.4	10
756	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> , 1999, 11, 1090-1092.	1.3	11

#	ARTICLE	IF	CITATIONS
757	Measurement of semiconductor laser gain and dispersion curves utilizing Fourier transforms of the emission spectra. IEEE Photonics Technology Letters, 1999, 11, 1372-1374.	1.3	63
758	Unipolar semiconductor lasers: new class of devices for the generation of mid-infrared radiation. , 1999, 3828, 24.		0
759	Mid-infrared GaAs/AlGaAs quantum cascade lasers. , 1999, 3625, 579.		0
760	Five years of quantum cascade lasers: progress and challenges. , 1999, 3628, 88.		0
761	Electrically pumped terahertz quantum well sources. , 1999, 3828, 2.		0
762	Resonant tunneling in quantum cascade lasers. IEEE Journal of Quantum Electronics, 1998, 34, 1722-1729.	1.0	244
763	Short wavelength ($\lambda \approx 3.4 \mu\text{m}$) quantum cascade laser based on strained compensated InGaAs/AlInAs. Applied Physics Letters, 1998, 72, 680-682.	1.5	300
764	GaAs/AlxGa1-xAs quantum cascade lasers. Applied Physics Letters, 1998, 73, 3486-3488.	1.5	414
765	High-power continuous-wave quantum cascade lasers. IEEE Journal of Quantum Electronics, 1998, 34, 336-343.	1.0	117
766	Sensitive absorption spectroscopy with a room-temperature distributed-feedback quantum-cascade laser. Optics Letters, 1998, 23, 219.	1.7	264
767	Dual-wavelength emission from optically cascaded intersubband transitions. Optics Letters, 1998, 23, 463.	1.7	36
768	Long-wavelength ($\lambda \approx 8.5 \mu\text{m}$) semiconductor lasers with waveguides based on surface plasmons. Optics Letters, 1998, 23, 1366.	1.7	159
769	Microlasers with Chaotic Resonators and Bow-tie Lasers. Optics and Photonics News, 1998, 9, 26.	0.4	0
770	The quantum cascade laser. A device based on two-dimensional electronic subbands. Journal of Optics, 1998, 7, 373-381.	0.5	6
771	High-power long-wavelength ($\lambda \approx 11.5 \mu\text{m}$) quantum cascade lasers operating above room temperature. IEEE Photonics Technology Letters, 1998, 10, 1100-1102.	1.3	40
772	High-power inter-miniband lasing in intrinsic superlattices. Applied Physics Letters, 1998, 72, 2388-2390.	1.5	64
773	Continuous-wave and high-power pulsed operation of index-coupled distributed feedback quantum cascade laser at $\lambda \approx 8.5 \mu\text{m}$. Applied Physics Letters, 1998, 72, 1430-1432.	1.5	126
774	Resonant tunneling electron injection in quantum cascade laser structures. , 1998, , .		0

#	ARTICLE	IF	CITATIONS
775	Quantum cascade lasers based on guided modes at a metal-semiconductor interface. , 1998, , .		0
776	Far-infrared ($\lambda=8.8\mu\text{m}$) electroluminescence in a quantum cascade structure. Applied Physics Letters, 1998, 73, 3724-3726.	1.5	148
777	Strain-compensated In/sub 0.7/Ga/sub 0.3/As-Al/sub 0.6/In/sub 0.4/As quantum cascade lasers for 3-5 μm operation. , 1998, , .		0
778	Chaotic whispering gallery lasers with high power and directional emission. , 1998, , .		0
779	High-performance, widely tunable, single-mode, mid-infrared distributed feedback quantum cascade lasers. , 1998, , .		1
780	Buried heterostructure quantum cascade lasers. , 1998, 3284, 231.		9
781	Mid-IR intersubband quantum cascade lasers. , 1998, 3284, 212.		0
782	Tunable distributed-feedback quantum-cascade lasers for gas-sensing applications. , 1998, 3285, 144.		1
783	Short ($\lambda=3.4\mu\text{m}$) and Long ($\lambda=11.5\mu\text{m}$) Wavelength Room Temperature Quantum Cascade Lasers. , 1998, , 1-8.		0
784	Mid-IR room temperature quantum cascade lasers. , 1997, 3001, 264.		1
785	Intersubband emission in double-well structures with quantum interference in absorption. Applied Physics Letters, 1997, 71, 3477-3479.	1.5	33
786	Tunable interminiband infrared emission in superlattice electron transport. Applied Physics Letters, 1997, 70, 1796-1798.	1.5	28
787	Distributed feedback quantum cascade lasers. Applied Physics Letters, 1997, 70, 2670-2672.	1.5	335
788	High-Power Infrared (8-Micrometer Wavelength) Superlattice Lasers. Science, 1997, 276, 773-776.	6.0	161
789	Quantum Cascade Distributed Feedback Laser. Optics and Photonics News, 1997, 8, 23.	0.4	6
790	Complex-coupled quantum cascade distributed-feedback laser. IEEE Photonics Technology Letters, 1997, 9, 1090-1092.	1.3	85
791	Pulsed and continuous-wave operation of long wavelength infrared ($\lambda=9.3\mu\text{m}$) quantum cascade lasers. IEEE Journal of Quantum Electronics, 1997, 33, 89-93.	1.0	31
792	Long-wavelength (9.5-11.5 μm) microdisk quantum-cascade lasers. IEEE Journal of Quantum Electronics, 1997, 33, 1567-1573.	1.0	58

#	ARTICLE	IF	CITATIONS
793	Controlling the sign of quantum interference by tunnelling from quantum wells. <i>Nature</i> , 1997, 390, 589-591.	13.7	352
794	Mid-infrared (8.5 μm) semiconductor lasers operating at room temperature. <i>IEEE Photonics Technology Letters</i> , 1997, 9, 294-296.	1.3	81
795	Infrared (4-11 μm) quantum cascade lasers. <i>Solid State Communications</i> , 1997, 102, 231-236.	0.9	84
796	High power mid-infrared quantum cascade lasers with a molecular beam epitaxy grown InP cladding operating above room temperature. <i>Journal of Crystal Growth</i> , 1997, 175-176, 22-28.	0.7	8
797	High power mid-infrared (4.5 μm) quantum cascade lasers operating above room temperature. <i>Applied Physics Letters</i> , 1996, 68, 3680-3682.	1.5	401
798	Quantum Cascade Lasers without Intersubband Population Inversion. <i>Physical Review Letters</i> , 1996, 76, 411-414.	2.9	123
799	Continuous wave operation of midinfrared (7.4-8.6 μm) quantum cascade lasers up to 110 K temperature. <i>Applied Physics Letters</i> , 1996, 68, 1745-1747.	1.5	91
800	Tunable Fano interference in intersubband absorption. <i>Optics Letters</i> , 1996, 21, 985.	1.7	66
801	<title>Continuous-wave quantum cascade lasers in the 4- to 10-um wavelength region</title>. , 1996, , .		1
802	Mesoscopic phenomena in semiconductor nanostructures by quantum design. <i>Journal of Mathematical Physics</i> , 1996, 37, 4775-4792.	0.5	38
803	Comments on quantum cascade lasers. <i>Physica Scripta</i> , 1996, T68, 113-116.	1.2	0
804	Room temperature mid-infrared quantum cascade lasers. <i>Electronics Letters</i> , 1996, 32, 560.	0.5	54
805	Continuous wave operation of quantum cascade lasers based on vertical transitions at $\lambda=4.6\mu\text{m}$. <i>Superlattices and Microstructures</i> , 1996, 19, 337-345.	1.4	21
806	Long wavelength vertical transition quantum cascade lasers operating CW at 110K. <i>Superlattices and Microstructures</i> , 1996, 19, 357-363.	1.4	3
807	Long wavelength infrared (4-11 μm) quantum cascade lasers. <i>Applied Physics Letters</i> , 1996, 69, 2810-2812.	1.5	94
808	Quantum cascade disk lasers. <i>Applied Physics Letters</i> , 1996, 69, 2456-2458.	1.5	86
809	Quantum cascade lasers for the mid-infrared region. <i>Physica Scripta</i> , 1996, T66, 57-59.	1.2	5
810	Quantum cascade laser: A new optical source in the mid-infrared. <i>Infrared Physics and Technology</i> , 1995, 36, 99-103.	1.3	16

#	ARTICLE	IF	CITATIONS
811	Quantum cascade laser with plasmon-enhanced waveguide operating at 8.4 μ m wavelength. Applied Physics Letters, 1995, 66, 3242-3244.	1.5	139
812	Continuous wave operation of a vertical transition quantum cascade laser above T=80 K. Applied Physics Letters, 1995, 67, 3057-3059.	1.5	165
813	Vertical transition quantum cascade laser with Bragg confined excited state. Applied Physics Letters, 1995, 66, 538-540.	1.5	191
814	Quantum cascade unipolar intersubband light emitting diodes in the 8-13 μ m wavelength region. Applied Physics Letters, 1995, 66, 4-6.	1.5	48
815	QUANTUM CASCADE LASERS. , 1995, , .		3
816	Far-infrared generation by doubly resonant difference frequency mixing in a coupled quantum well two-dimensional electron gas system. Applied Physics Letters, 1994, 65, 445-447.	1.5	88
817	Quantum cascade laser: Temperature dependence of the performance characteristics and high-T operation. Applied Physics Letters, 1994, 65, 2901-2903.	1.5	94
818	Phonon limited intersubband lifetimes and linewidths in a two-dimensional electron gas. Applied Physics Letters, 1994, 64, 872-874.	1.5	98
819	New optical absorption and photocurrent reversal phenomena induced by localized continuum resonances in quantum well heterostructures. Solid-State Electronics, 1994, 37, 1191-1194.	0.8	1
820	Intersubband lifetime in quantum wells with transition energies above and below the optical phonon energy. Solid-State Electronics, 1994, 37, 1273-1276.	0.8	12
821	Quantum Cascade Laser. Science, 1994, 264, 553-556.	6.0	4,380
822	Quantum cascade laser: An intersub-band semiconductor laser operating above liquid nitrogen temperature. Electronics Letters, 1994, 30, 865.	0.5	46
823	Electronic Quarter-Wave Stacks and Bragg Reflectors: Physics of Localized Continuum States in Quantum Semiconductor Structures. , 1994, , 301-311.		3
824	Mid-infrared field-tunable intersubband electroluminescence at room temperature by photon-assisted tunneling in coupled quantum wells. Applied Physics Letters, 1994, 64, 1144-1146.	1.5	69
825	The Quantum Cascade Laser. Optics and Photonics News, 1994, 5, 15.	0.4	4
826	Nonparabolicity and a sum rule associated with bound-to-bound and bound-to-continuum intersubband transitions in quantum wells. Physical Review B, 1994, 50, 8663-8674.	1.1	271
827	Narrowing of the intersubband electroluminescent spectrum in coupled quantum well heterostructures. Applied Physics Letters, 1994, 65, 94-96.	1.5	71
828	Modulation of the Optical Absorption by Electric-Field-Induced Quantum Interference in Coupled Quantum Wells. , 1994, , 313-319.		0

#	ARTICLE	IF	CITATIONS
829	Narrowing of the intersubband absorption spectrum by localization of continuum resonances in a strong electric field. Applied Physics Letters, 1993, 62, 1931-1933.	1.5	24
830	Suppression of optical absorption by electric-field-induced quantum interference in coupled potential wells. Physical Review Letters, 1993, 71, 3573-3576.	2.9	42
831	Photocurrent reversal induced by localized continuum resonances in asymmetric quantum semiconductor structures. Applied Physics Letters, 1993, 63, 2670-2672.	1.5	11
832	Measurement of the intersubband scattering rate in semiconductor quantum wells by excited state differential absorption spectroscopy. Applied Physics Letters, 1993, 63, 1354-1356.	1.5	115
833	Quantum-well intersub-band electroluminescent diode at $\lambda = 5\frac{1}{4}\mu\text{m}$. Electronics Letters, 1993, 29, 2230.	0.5	24
834	Quantum wells with localized states at energies above the barrier height: A Fabry-Pérot electron filter. Applied Physics Letters, 1992, 61, 898-900.	1.5	75
835	InGaAs/GaAs vertical cavity surface emitting laser with hybrid top mirror. Microelectronic Engineering, 1992, 18, 267-272.	1.1	1
836	Observation of an electronic bound state above a potential well. Nature, 1992, 358, 565-567.	13.7	284
837	Interchannel Scattering and Interior Contacts in the Quantum Hall Effect. Europhysics Letters, 1991, 15, 331-336.	0.7	13
838	Interior contacts for probing the equilibrium between magnetic edge channels in the quantum Hall effect. Physical Review B, 1991, 43, 9332-9335.	1.1	19
839	Observation of impurity effects on conductance quantization. Superlattices and Microstructures, 1990, 7, 349-351.	1.4	8
840	Phase modulation in GaAs/AlGaAs double heterostructures. I. Theory. Journal of Applied Physics, 1990, 67, 6998-7005.	1.1	32
841	Possible observation of impurity effects on conductance quantization. Physical Review B, 1990, 42, 3217-3219.	1.1	57
842	Phase modulation in GaAs/AlGaAs double heterostructures. II. Experiment. Journal of Applied Physics, 1990, 67, 7006-7012.	1.1	24
843	Polarisation independent switching and active separation of TE and TM modes with a GaAs/AlGaAs 2 μm -2 switch. Electronics Letters, 1990, 26, 476.	0.5	1
844	Characterization of GaAs/(GaAs) _n (AlAs) _m surface-emitting laser structures through reflectivity and high-resolution electron microscopy measurements. Journal of Applied Physics, 1989, 66, 1023-1032.	1.1	54
845	Optically pumped GaAs surface-emitting laser with integrated Bragg reflector. Electronics Letters, 1988, 24, 629-630.	0.5	26
846	Low-drive-voltage, low-loss AlGaAs/GaAs 2 μm -2 switch. Electronics Letters, 1988, 24, 1047.	0.5	6

#	ARTICLE	IF	CITATIONS
847	Orientation dependence of the phase modulation in a p-n junction GaAs/Al _x Ga _{1-x} As waveguide. Applied Physics Letters, 1987, 50, 68-70.	1.5	27
848	Comparison of phase modulation of GaAs/AlGaAs double heterostructures. Electronics Letters, 1987, 23, 1391.	0.5	11
849	Quantum cascade lasers based on superlattice active regions and n-i-p-i doping. , 0, , .		1
850	Quantum cascade lasers in the 8-9 μm wavelength region. , 0, , .		0
851	Quantum cascade lasers: unipolar intersubband infrared lasers. , 0, , .		0
852	Long-wavelength (9-11 μm) quantum cascade lasers. , 0, , .		0
853	Recent advances in quantum cascade lasers. , 0, , .		1
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863	Continuous wave operation of quantum cascade lasers. , 0, , .		0
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#	ARTICLE	IF	CITATIONS
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877	SiGe Quantum Cascade Structures: Physics, Growth and Technology. , 0, , .		0
878	GaAs quantum cascade lasers. , 0, , .		5
879	SiGe Quantum Cascade Structures: Physics, Growth and Technology. , 0, , .		0