

# Carlo Sirtori

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

186  
papers

13,038  
citations

55  
h-index

111  
g-index

190  
ext. papers

15,096  
ext. citations

6.4  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
186	10 Gbit s <sup>-1</sup> Free Space Data Transmission at 9 μm Wavelength With Unipolar Quantum Optoelectronics. <i>Laser and Photonics Reviews</i> , <b>2022</b> , 16, 2100414	8.3	3
185	Optomechanical temporal sampling of terahertz signals. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 181103	3.4	1
184	Long wavelength (λ = 13 μm) quantum cascade laser based on diagonal transition and three-phonon-resonance design. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 131105	3.4	
183	Terahertz Emission from HgCdTe QWs under Long-Wavelength Optical Pumping. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 750-757	2.2	2
182	Absorption Engineering in an Ultrasubwavelength Quantum System. <i>Nano Letters</i> , <b>2020</b> , 20, 4430-4436	11.5	9
181	Quantum Theory of Multisubband Plasmon-Phonon Coupling. <i>Photonics</i> , <b>2020</b> , 7, 19	2.2	1
180	Long-wavelength infrared photovoltaic heterodyne receivers using patch-antenna quantum cascade detectors. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 161101	3.4	18
179	Semiconductor quantum plasmons for high frequency thermal emission. <i>Nanophotonics</i> , <b>2020</b> , 10, 607-615	6.5	
178	Quasi-static and propagating modes in three-dimensional THz circuits. <i>Optics Express</i> , <b>2020</b> , 28, 16982-16995	9.9	
177	High temperature metamaterial terahertz quantum detector. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 251102	3.4	11
176	Mixing Properties of Room Temperature Patch-Antenna Receivers in a Mid-Infrared (10 μm) Heterodyne System. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 1900207	8.3	5
175	Semiconductor Quantum Plasmonics. <i>Physical Review Letters</i> , <b>2020</b> , 125, 187401	7.4	3
174	Tunability of the Free-Spectral Range by Microwave Injection into a Mid-Infrared Quantum Cascade Laser. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 1900389	8.3	4
173	Carrier Recombination, Long-Wavelength Photoluminescence, and Stimulated Emission in HgCdTe Quantum Well Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1800546	1.3	10
172	Ultrastrong Light-Matter Coupling in Deeply Subwavelength THz LC Resonators. <i>ACS Photonics</i> , <b>2019</b> , 6, 1207-1215	6.3	19
171	Coulomb forces in THz electromechanical meta-atoms. <i>Nanophotonics</i> , <b>2019</b> , 8, 2269-2277	6.3	5
170	Multi-Terahertz Sideband Generation on an Optical Telecom Carrier with a Quantum Cascade Laser. <i>ACS Photonics</i> , <b>2018</b> , 5, 890-896	6.3	3

169	Room-temperature nine- $\mu\text{m}$ -wavelength photodetectors and GHz-frequency heterodyne receivers. <i>Nature</i> , <b>2018</b> , 556, 85-88	50.4	124
168	Room-Temperature, Wide-Band, Quantum Well Infrared Photodetector for Microwave Optical Links at 4.9 $\mu\text{m}$ Wavelength. <i>ACS Photonics</i> , <b>2018</b> , 5, 3689-3694	6.3	18
167	Time resolved Fabry-Perot measurements of cavity temperature in pulsed QCLs. <i>Optics Express</i> , <b>2018</b> , 26, 6572-6580	3.3	5
166	Near-field spectroscopy and tuning of sub-surface modes in plasmonic terahertz resonators. <i>Optics Express</i> , <b>2018</b> , 26, 7437-7450	3.3	5
165	Dynamics of a broad-band quantum cascade laser: from chaos to coherent dynamics and mode-locking. <i>Optics Express</i> , <b>2018</b> , 26, 2829-2847	3.3	14
164	Unambiguous real-time terahertz frequency metrology using dual 10 GHz femtosecond frequency combs. <i>Optica</i> , <b>2018</b> , 5, 1431	8.6	5
163	Noise characterization of patch antenna THz photodetectors. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 161105	3.4	8
162	Midinfrared Ultrastrong Light-Matter Coupling for THz Thermal Emission. <i>ACS Photonics</i> , <b>2017</b> , 4, 2550-2555	3.5	20
161	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser. <i>Laser and Photonics Reviews</i> , <b>2017</b> , 11, 1700013	8.3	40
160	Engineering the Losses and Beam Divergence in Arrays of Patch Antenna Microcavities for Terahertz Sources. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2017</b> , 38, 1321-1330	2.2	2
159	Mode stabilization in quantum cascade lasers via an intra-cavity cascaded nonlinearity. <i>Optics Express</i> , <b>2017</b> , 25, 1847-1855	3.3	2
158	Nanoscale electromagnetic confinement in THz circuit resonators. <i>Optics Express</i> , <b>2017</b> , 25, 28718	3.3	5
157	5-ps-long terahertz pulses from an active-mode-locked quantum cascade laser. <i>Optica</i> , <b>2017</b> , 4, 168	8.6	20
156	Ultra-subwavelength resonators for high temperature high performance quantum detectors. <i>New Journal of Physics</i> , <b>2016</b> , 18, 113016	2.9	30
155	Patch antenna microcavity terahertz sources with enhanced emission. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 141103	3.4	5
154	Optical sideband generation up to room temperature with mid-infrared quantum cascade lasers. <i>Optics Express</i> , <b>2015</b> , 23, 4012-20	3.3	3
153	Three-dimensional THz lumped-circuit resonators. <i>Optics Express</i> , <b>2015</b> , 23, 16838-45	3.3	11
152	Patch antenna terahertz photodetectors. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 161102	3.4	45

151	Radiatively Broadened Incandescent Sources. <i>ACS Photonics</i> , <b>2015</b> , 2, 1663-1668	6.3	9
150	Superradiant Emission from a Collective Excitation in a Semiconductor. <i>Physical Review Letters</i> , <b>2015</b> , 115, 187402	7.4	37
149	Electrical excitation of superradiant intersubband plasmons. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 241112	3.4	6
148	Dynamics of ultra-broadband terahertz quantum cascade lasers for comb operation. <i>Optics Express</i> , <b>2015</b> , 23, 33270-94	3.3	49
147	Electrically injected photon-pair source at room temperature. <i>Physical Review Letters</i> , <b>2014</b> , 112, 183901	7.4	53
146	Coupled-cavity terahertz quantum cascade lasers for single mode operation. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 241102	3.4	26
145	Injection locking of mid-infrared quantum cascade laser at 14 GHz, by direct microwave modulation. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 443-449	8.3	31
144	Spectral Properties of THz Quantum-Cascade Lasers: Frequency Noise, Phase-Locking and Absolute Frequency Measurement. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2013</b> , 34, 342-356	2.2	6
143	Wave engineering with THz quantum cascade lasers. <i>Nature Photonics</i> , <b>2013</b> , 7, 691-701	33.9	103
142	High frequency modulation of mid-infrared quantum cascade lasers embedded into microstrip line. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 181114	3.4	34
141	Microring Diode Laser for THz Generation. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2013</b> , 3, 472-478	3.4	1
140	Direct surface cyclotron resonance terahertz emission from a quantum cascade structure. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 102103	3.4	9
139	Charge-induced coherence between intersubband plasmons in a quantum structure. <i>Physical Review Letters</i> , <b>2012</b> , 109, 246808	7.4	74
138	All-optical wavelength shifting in a semiconductor laser using resonant nonlinearities. <i>Nature Photonics</i> , <b>2012</b> , 6, 519-524	33.9	18
137	Electrical modulation of the complex refractive index in mid-infrared quantum cascade lasers. <i>Optics Express</i> , <b>2012</b> , 20, 1172-83	3.3	11
136	Extremely sub-wavelength THz metal-dielectric wire microcavities. <i>Optics Express</i> , <b>2012</b> , 20, 29121-30	3.3	31
135	Sub-diffraction-limit semiconductor resonators operating on the fundamental magnetic resonance. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 131113	3.4	21
134	Measurement of the intrinsic linewidth of terahertz quantum cascade lasers using a near-infrared frequency comb. <i>Optics Express</i> , <b>2012</b> , 20, 25654-61	3.3	48

133	Phase-locking of a 2.5 THz quantum cascade laser to a frequency comb using a GaAs photomixer. <i>Optics Letters</i> , <b>2011</b> , 36, 3969-71	3	41
132	Coherent sampling of active mode-locked terahertz quantum cascade lasers and frequency synthesis. <i>Nature Photonics</i> , <b>2011</b> , 5, 306-313	33-9	132
131	Transition from strong to ultrastrong coupling regime in mid-infrared metal-dielectric-metal cavities. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 231114	3-4	32
130	Gain enhancement in a terahertz quantum cascade laser with parylene antireflection coatings. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 101102	3-4	15
129	Phase-locking of a 2.7-THz quantum cascade laser to a mode-locked erbium-doped fibre laser. <i>Nature Photonics</i> , <b>2010</b> , 4, 636-640	33-9	110
128	Injection of midinfrared surface plasmon polaritons with an integrated device. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 211110	3-4	13
127	Semiconductor surface plasmon sources. <i>Physical Review Letters</i> , <b>2010</b> , 104, 226806	7-4	41
126	Optical properties of metal-dielectric-metal microcavities in the THz frequency range. <i>Optics Express</i> , <b>2010</b> , 18, 13886-907	3-3	114
125	Injection-locking of terahertz quantum cascade lasers up to 35GHz using RF amplitude modulation. <i>Optics Express</i> , <b>2010</b> , 18, 20799-816	3-3	77
124	Ultrastrong light-matter coupling regime with polariton dots. <i>Physical Review Letters</i> , <b>2010</b> , 105, 196402	7-4	305
123	Strong light-matter coupling in subwavelength metal-dielectric microcavities at terahertz frequencies. <i>Physical Review Letters</i> , <b>2009</b> , 102, 186402	7-4	135
122	Integrated quantum cascade laser-modulator using vertically coupled cavities. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 211105	3-4	5
121	QUANTUM CASCADE NANOSTRUCTURES UNDER HIGH MAGNETIC FIELD. <i>International Journal of Modern Physics B</i> , <b>2009</b> , 23, 2861-2866	1-1	1
120	Terahertz amplifier based on gain switching in a quantum cascade laser. <i>Nature Photonics</i> , <b>2009</b> , 3, 715-719	33-9	46
119	A semiconductor laser device for the generation of surface-plasmons upon electrical injection. <i>Optics Express</i> , <b>2009</b> , 17, 9391-400	3-3	22
118	Gain Measurements of THz Quantum Cascade Lasers using THz Time-Domain Spectroscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2008</b> , 14, 436-442	3-8	19
117	Terahertz Quantum Cascade Devices: From Intersubband Transition to Microcavity Laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2008</b> , 14, 307-314	3-8	2
116	Surface plasmon quantum cascade lasers as terahertz local oscillators. <i>Optics Letters</i> , <b>2008</b> , 33, 312-4	3	30

115	Investigation of spectral gain narrowing in quantum cascade lasers using terahertz time domain spectroscopy. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 101115	3-4	27
114	Metal-metal terahertz quantum cascade laser with micro-transverse-electromagnetic-horn antenna. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 183508	3-4	47
113	Influence of the material parameters on quantum cascade devices. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 131108	3-4	35
112	Stark-tunable electroluminescence from cavity polariton states. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 171105	3-4	7
111	Effect of transverse mode structure on the far field pattern of metal-metal terahertz quantum cascade lasers. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 124513	2-5	14
110	Electrically injected cavity polaritons. <i>Physical Review Letters</i> , <b>2008</b> , 100, 136806	7-4	54
109	Terahertz transfer onto a telecom optical carrier. <i>Nature Photonics</i> , <b>2007</b> , 1, 411-415	33-9	40
108	Phase-resolved measurements of stimulated emission in a laser. <i>Nature</i> , <b>2007</b> , 449, 698-701	50-4	126
107	Low threshold THz QC lasers with thin core regions. <i>Electronics Letters</i> , <b>2007</b> , 43, 285	1-1	16
106	Photovoltaic probe of cavity polaritons in a quantum cascade structure. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 201101	3-4	24
105	Terahertz quantum cascade lasers with large wall-plug efficiency. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 191115	3-4	47
104	Longitudinal spatial hole burning in terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 161108	3-4	17
103	13GHz direct modulation of terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 143510	3-4	61
102	QUANTUM EFFICIENCY OF A 2-LEVEL InAs/AlSb QUANTUM CASCADE STRUCTURE. <i>International Journal of Modern Physics B</i> , <b>2007</b> , 21, 1471-1475	1-1	1
101	Subband electronic temperatures and electron-lattice energy relaxation in terahertz quantum cascade lasers with different conduction band offsets. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 131114	3-4	25
100	Role of elastic scattering mechanisms in GaInAs/AlInAs quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 172120	3-4	39
99	Spectroscopy of GaAs/AlGaAs quantum-cascade lasers using hydrostatic pressure. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 221105	3-4	12
98	Optical Mode Control of Surface-Plasmon Quantum Cascade Lasers. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 2499-2501	2-2	5

97	Continuous wave operation of a superlattice quantum cascade laser emitting at 2 THz. <i>Optics Express</i> , <b>2006</b> , 14, 171-81	3.3	66
96	High-power room temperature emission quantum cascade lasers at $\lambda = 9 \mu\text{m}$ . <i>IEEE Journal of Quantum Electronics</i> , <b>2005</b> , 41, 1430-1438	2	20
95	Quantum cascade intersubband polariton light emitters. <i>Semiconductor Science and Technology</i> , <b>2005</b> , 20, 985-990	1.8	44
94	Mechanisms of dynamic range limitations in GaAs/AlGaAs quantum-cascade lasers: Influence of injector doping. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 2111-17	3.4	55
93	Room temperature operation of InAs/AlSb quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 167-169	3.4	68
92	Measurements of optical losses in mid-infrared semiconductor lasers using Fabry-Pérot transmission oscillations. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 7584-7587	2.5	14
91	Energy relaxation of magnetically confined electrons in quantum cascade lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 20, 503-506	3	
90	Low threshold high-power room-temperature continuous-wave operation diode laser emitting at 2.26 $\mu\text{m}$ . <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 1253-1255	2.2	27
89	Nonlinear phase matching in THz semiconductor waveguides. <i>Semiconductor Science and Technology</i> , <b>2004</b> , 19, 964-970	1.8	36
88	Intracavity sum-frequency generation in GaAs quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2019-2021	3.4	36
87	Simultaneous measurement of the electronic and lattice temperatures in GaAs/Al <sub>0.45</sub> Ga <sub>0.55</sub> As quantum-cascade lasers: Influence on the optical performance. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3690-3692	3.4	61
86	Improved CW operation of GaAs-based QC lasers: $T_{\text{max}} = 150 \text{ K}$ . <i>IEEE Journal of Quantum Electronics</i> , <b>2004</b> , 40, 665-672	2	33
85	Material engineering for InAs/GaSb/AlSb quantum cascade light emitting devices. <i>Journal of Crystal Growth</i> , <b>2003</b> , 251, 723-728	1.6	5
84	Thermal behavior of GaAs/AlGaAs quantum-cascade lasers: effect of the Al content in the barrier layers. <i>Journal of Crystal Growth</i> , <b>2003</b> , 251, 701-706	1.6	11
83	Thermoelastic stress in GaAs/AlGaAs quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4639-4641	3.4	12
82	Temperature transients and thermal properties of GaAs/AlGaAs quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4020-4022	3.4	12
81	High-temperature performance of GaAs-based bound-to-continuum quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4698-4700	3.4	73
80	High-performance continuous-wave operation of superlattice terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1518-1520	3.4	48

79	Ultrafast coherent electron transport in GaAs/AlGaAs quantum cascade structures. <i>Physica B: Condensed Matter</i> , <b>2002</b> , 314, 314-322	2.8	6
78	High performance single mode GaAs quantum cascade lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 13, 840-843	3	4
77	High reflectivity metallic mirror coatings for mid-infrared (119 $\mu\text{m}$ ) unipolar semiconductor lasers. <i>Semiconductor Science and Technology</i> , <b>2002</b> , 17, 1312-1316	1.8	17
76	GaAs-AlGaAs quantum cascade lasers: physics, technology, and prospects. <i>IEEE Journal of Quantum Electronics</i> , <b>2002</b> , 38, 547-558	2	65
75	GaAs quantum box cascade lasers. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2941-2943	3.4	58
74	GaAs quantum cascade laser spectroscopy by tunnelling magnetotransport. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 298, 348-352	2.8	1
73	Facet temperature mapping of GaAs/AlGaAs quantum cascade lasers by photoluminescence microprobe. <i>Optical Materials</i> , <b>2001</b> , 17, 219-222	3.3	4
72	Design strategies for GaAs-based unipolar lasers: Optimum injector-active region coupling via resonant tunneling. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 282-284	3.4	31
71	InAs/AlSb quantum-cascade light-emitting devices in the 38 $\mu\text{m}$ wavelength region. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1029-1031	3.4	38
70	Lateral current spreading in unipolar semiconductor lasers. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 1688-1691	3.5	12
69	Demonstration of ( $\lambda/11.5\text{-}\mu\text{m}$ ) GaAs-based quantum cascade laser operating on a Peltier cooled element. <i>IEEE Photonics Technology Letters</i> , <b>2001</b> , 13, 556-558	2.2	13
68	300 K operation of a GaAs-based quantum-cascade laser at 9 $\mu\text{m}$ . <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3529-3531	3.4	195
67	Thermal resistance and temperature characteristics of GaAs/Al <sub>0.33</sub> Ga <sub>0.67</sub> As quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1177-1179	3.4	28
66	Monitoring the ultrafast electric field change at a mid-infrared plasma Bragg mirror. <i>Optics Letters</i> , <b>2001</b> , 26, 1618-20	3	1
65	Observation of electromagnetically induced transparency and measurements of subband dynamics in a semiconductor quantum well. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 166-173	3.3	21
64	High-power tunable quantum fountain unipolar lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 12-19	3	15
63	Large electrically induced transmission changes of GaAs/AlGaAs quantum-cascade structures. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 3254-3256	3.4	20
62	AlAs/GaAs quantum cascade lasers based on large direct conduction band discontinuity. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 463-465	3.4	48



61	Gain measurements on GaAs-based quantum cascade lasers using a two-section cavity technique. <i>IEEE Journal of Quantum Electronics</i> , <b>2000</b> , 36, 736-741	2	21
60	Laser-induced quantum coherence in a semiconductor quantum well. <i>Physical Review Letters</i> , <b>2000</b> , 84, 1019-22	7.4	304
59	Design and operation of mid-infrared light-emitting devices ( $\lambda \approx 11 \mu\text{m}$ ) based on a chirped superlattice. <i>Semiconductor Science and Technology</i> , <b>2000</b> , 15, 44-50	1.8	9
58	Improved temperature performance of $\text{Al}_{0.33}\text{Ga}_{0.67}\text{As}/\text{GaAs}$ quantum-cascade lasers with emission wavelength at $11 \mu\text{m}$ . <i>Applied Physics Letters</i> , <b>2000</b> , 76, 3340-3342	3.4	50
57	Chapter 2 Quantum Interference Effects in Intersubband Transitions. <i>Semiconductors and Semimetals</i> , <b>1999</b> , 62, 101-128	0.6	2
56	Low-loss Al-free waveguides for unipolar semiconductor lasers. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 3911-3913	3.3	116
55	Chapter 2 Nonlinear Optics in Coupled-Quantum-Well Quasi-Molecules. <i>Semiconductors and Semimetals</i> , <b>1999</b> , 66, 85-125	0.6	3
54	Influence of DX centers on the performance of unipolar semiconductor lasers based on $\text{GaAs-Al}_x/\text{sub } x/\text{Ga}/\text{sub } 1-x/\text{As}$ . <i>IEEE Photonics Technology Letters</i> , <b>1999</b> , 11, 1090-1092	2.2	11
53	High peak power (1.1 W) (Al)GaAs quantum cascade laser emitting at 9.7 [ $\mu\text{m}$ ]. <i>Electronics Letters</i> , <b>1999</b> , 35, 1848	1.1	18
52	. <i>IEEE Journal of Quantum Electronics</i> , <b>1998</b> , 34, 1722-1729	2	199
51	$\text{GaAs}/\text{Al}_x\text{Ga}_{1-x}\text{As}$ quantum cascade lasers. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3486-3488	3.4	345
50	High-power continuous-wave quantum cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>1998</b> , 34, 336-343	2	97
49	Dual-wavelength emission from optically cascaded intersubband transitions. <i>Optics Letters</i> , <b>1998</b> , 23, 463-5	3	30
48	Long-wavelength ( $\lambda$ approximately 8-11.5 $\mu\text{m}$ ) semiconductor lasers with waveguides based on surface plasmons. <i>Optics Letters</i> , <b>1998</b> , 23, 1366-8	3	140
47	High-power long-wavelength ( $\lambda \approx 11.5 \mu\text{m}$ ) quantum cascade lasers operating above room temperature. <i>IEEE Photonics Technology Letters</i> , <b>1998</b> , 10, 1100-1102	2.2	36
46	Intersubband emission in double-well structures with quantum interference in absorption. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 3477-3479	3.4	31
45	Tunable interminiband infrared emission in superlattice electron transport. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 1796-1798	3.4	25
44	Distributed feedback quantum cascade lasers. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 2670-2672	3.4	266

43	High-Power Infrared (8-Micrometer Wavelength) Superlattice Lasers. <i>Science</i> , <b>1997</b> , 276, 773-6	33.3	136
42	Complex-coupled quantum cascade distributed-feedback laser. <i>IEEE Photonics Technology Letters</i> , <b>1997</b> , 9, 1090-1092	2.2	75
41	Pulsed and continuous-wave operation of long wavelength infrared ( $\lambda=9.3 \mu\text{m}$ ) quantum cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>1997</b> , 33, 89-93	2	24
40	Long-wavelength (9.5-11.5 $\mu\text{m}$ ) microdisk quantum-cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>1997</b> , 33, 1567-1573	2	50
39	Controlling the sign of quantum interference by tunnelling from quantum wells. <i>Nature</i> , <b>1997</b> , 390, 589-594	50.4	319
38	Laser action by tuning the oscillator strength. <i>Nature</i> , <b>1997</b> , 387, 777-782	50.4	98
37	Mid-infrared (8.5 $\mu\text{m}$ ) semiconductor lasers operating at room temperature. <i>IEEE Photonics Technology Letters</i> , <b>1997</b> , 9, 294-296	2.2	70
36	Infrared (4-11 $\mu\text{m}$ ) quantum cascade lasers. <i>Solid State Communications</i> , <b>1997</b> , 102, 231-236	1.6	65
35	High power mid-infrared (8.5 $\mu\text{m}$ ) quantum cascade lasers operating above room temperature. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 3680-3682	3.4	326
34	Quantum cascade lasers without intersubband population inversion. <i>Physical Review Letters</i> , <b>1996</b> , 76, 411-414	7.4	99
33	Continuous wave operation of midinfrared (7.4-8.6 $\mu\text{m}$ ) quantum cascade lasers up to 110 K temperature. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 1745-1747	3.4	76
32	Tunable Fano interference in intersubband absorption. <i>Optics Letters</i> , <b>1996</b> , 21, 985-7	3	61
31	Mesoscopic phenomena in semiconductor nanostructures by quantum design. <i>Journal of Mathematical Physics</i> , <b>1996</b> , 37, 4775-4792	1.2	34
30	Continuous wave operation of quantum cascade lasers based on vertical transitions at 4.6 $\mu\text{m}$ . <i>Superlattices and Microstructures</i> , <b>1996</b> , 19, 337-345	2.8	18
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22	Quantum cascade unipolar intersubband light emitting diodes in the 8-13 $\mu$ m wavelength region. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 4-6	3-4	39
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