Carlo Sirtori

List of Publications by Year
in descending order

189 papers	16,082 citations	22548 61 h-index	18944 123 g-index
190 all docs	190 docs citations	190 times ranked	7300 citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband Enhancement of Midâ€Wave Infrared Absorption in a Multiâ€Resonant Nanocrystalâ€Based Device. Advanced Optical Materials, 2022, 10, .	3.6	12
2	10 Gbit s^{âˆ’1} Free Space Data Transmission at 9ÂÂµm Wavelength With Unipolar Quantum Optoelectronics. Laser and Photonics Reviews, 2022, 16, .	4.4	35
3	Long wavelength (Î»â€‰>â€‰13 Î¼m) quantum cascade laser based on diagonal transition and three-phonon-resonance design. Applied Physics Letters, 2021, 119, .	1.5	5
4	Terahertz race heats up. Nature Photonics, 2021, 15, 1-2.	15.6	25
5	Optomechanical temporal sampling of terahertz signals. Applied Physics Letters, 2021, 119, 181103.	1.5	3
6	Mixing Properties of Room Temperature Patchâ€Antenna Receivers in a Midâ€Infrared (Î»Ââ‰ˆÂ9ÂÂµm) Heterodyne System. Laser and Photonics Reviews, 2020, 14, 1900207.	4.4	12
7	Semiconductor Quantum Plasmonics. Physical Review Letters, 2020, 125, 187401.	2.9	9
8	Terahertz Emission from HgCdTe QWs under Long-Wavelength Optical Pumping. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 750-757.	1.2	3
9	Absorption Engineering in an Ultrasubwavelength Quantum System. Nano Letters, 2020, 20, 4430-4436.	4.5	21
10	Quantum Theory of Multisubband Plasmonâ€“ Phonon Coupling. Photonics, 2020, 7, 19.	0.9	5
11	Long-wavelength infrared photovoltaic heterodyne receivers using patch-antenna quantum cascade detectors. Applied Physics Letters, 2020, 116, .	1.5	33
12	Tunability of the Freeâ€Spectral Range by Microwave Injection into a Midâ€Infrared Quantum Cascade Laser. Laser and Photonics Reviews, 2020, 14, 1900389.	4.4	7
13	High temperature metamaterial terahertz quantum detector. Applied Physics Letters, 2020, 117, .	1.5	23
14	Quasi-static and propagating modes in three-dimensional THz circuits. Optics Express, 2020, 28, 16982.	1.7	0
15	Semiconductor quantum plasmons for high frequency thermal emission. Nanophotonics, 2020, 10, 607-615.	2.9	1
16	Carrier Recombination, Longâ€Wavelength Photoluminescence, and Stimulated Emission in HgCdTe Quantum Well Heterostructures. Physica Status Solidi (B): Basic Research, 2019, 256, 1800546.	0.7	15
17	Ultrastrong Lightâ€“Matter Coupling in Deeply Subwavelength THz LC Resonators. ACS Photonics, 2019, 6, 1207-1215.	3.2	37
18	Coulomb forces in THz electromechanical meta-atoms. Nanophotonics, 2019, 8, 2269-2277.	2.9	13

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19	Multi-Terahertz Sideband Generation on an Optical Telecom Carrier with a Quantum Cascade Laser. ACS Photonics, 2018, 5, 890-896.	3.2	4
20	Room-temperature nine-Âµm-wavelength photodetectors and GHz-frequency heterodyne receivers. Nature, 2018, 556, 85-88.	13.7	197
21	Noise characterization of patch antenna THz photodetectors. Applied Physics Letters, 2018, 113, .	1.5	10
22	Room-Temperature, Wide-Band, Quantum Well Infrared Photodetector for Microwave Optical Links at 4.9 Î¼m Wavelength. ACS Photonics, 2018, 5, 3689-3694.	3.2	27
23	Time resolved Fabry-Perot measurements of cavity temperature in pulsed QCLs. Optics Express, 2018, 26, 6572.	1.7	10
24	Near-field spectroscopy and tuning of sub-surface modes in plasmonic terahertz resonators. Optics Express, 2018, 26, 7437.	1.7	11
25	Dynamics of a broad-band quantum cascade laser: from chaos to coherent dynamics and mode-locking. Optics Express, 2018, 26, 2829.	1.7	27
26	Unambiguous real-time terahertz frequency metrology using dual 10â€‰â€‰GHz femtosecond frequency combs. Optica, 2018, 5, 1431.	4.8	9
27	Midinfrared Ultrastrong Lightâ€“Matter Coupling for THz Thermal Emission. ACS Photonics, 2017, 4, 2550-2555.	3.2	33
28	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser. Laser and Photonics Reviews, 2017, 11, 1700013.	4.4	67
29	Engineering the Losses and Beam Divergence in Arrays of Patch Antenna Microcavities for Terahertz Sources. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1321-1330.	1.2	2
30	Mode stabilization in quantum cascade lasers via an intra-cavity cascaded nonlinearity. Optics Express, 2017, 25, 1847.	1.7	2
31	Nanoscale electromagnetic confinement in THz circuit resonators. Optics Express, 2017, 25, 28718.	1.7	7
32	5-ps-long terahertz pulses from an active-mode-locked quantum cascade laser. Optica, 2017, 4, 168.	4.8	30
33	Patch antenna microcavity terahertz sources with enhanced emission. Applied Physics Letters, 2016, 109, .	1.5	5
34	Ultra-subwavelength resonators for high temperature high performance quantum detectors. New Journal of Physics, 2016, 18, 113016.	1.2	38
35	Superradiant Emission from a Collective Excitation in a Semiconductor. Physical Review Letters, 2015, 115, 187402.	2.9	51
36	Electrical excitation of superradiant intersubband plasmons. Applied Physics Letters, 2015, 107, .	1.5	9

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37	Dynamics of ultra-broadband terahertz quantum cascade lasers for comb operation. Optics Express, 2015, 23, 33270.	1.7	70
38	Optical sideband generation up to room temperature with mid-infrared quantum cascade lasers. Optics Express, 2015, 23, 4012.	1.7	3
39	Three-dimensional THz lumped-circuit resonators. Optics Express, 2015, 23, 16838.	1.7	13
40	Patch antenna terahertz photodetectors. Applied Physics Letters, 2015, 106, .	1.5	61
41	Radiatively Broadened Incandescent Sources. ACS Photonics, 2015, 2, 1663-1668.	3.2	15
42	Electrically Injected Photon-Pair Source at Room Temperature. Physical Review Letters, 2014, 112, 183901.	2.9	78
43	Coupled-cavity terahertz quantum cascade lasers for single mode operation. Applied Physics Letters, 2014, 104, .	1.5	30
44	Injection locking of midâ€infrared quantum cascade laser at 14 GHz, by direct microwave modulation. Laser and Photonics Reviews, 2014, 8, 443-449.	4.4	44
45	Spectral Properties of THz Quantum-Cascade Lasers: Frequency Noise, Phase-Locking and Absolute Frequency Measurement. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 342-356.	1.2	9
46	Wave engineering with THz quantum cascade lasers. Nature Photonics, 2013, 7, 691-701.	15.6	118
47	High frequency modulation of mid-infrared quantum cascade lasers embedded into microstrip line. Applied Physics Letters, 2013, 102, .	1.5	44
48	Microring Diode Laser for THz Generation. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 472-478.	2.0	1
49	Electrical modulation of the complex refractive index in mid-infrared quantum cascade lasers. Optics Express, 2012, 20, 1172.	1.7	13
50	Extremely sub-wavelength THz metal-dielectric wire microcavities. Optics Express, 2012, 20, 29121.	1.7	36
51	Sub-diffraction-limit semiconductor resonators operating on the fundamental magnetic resonance. Applied Physics Letters, 2012, 100, .	1.5	25
52	Measurement of the intrinsic linewidth of terahertz quantum cascade lasers using a near-infrared frequency comb. Optics Express, 2012, 20, 25654.	1.7	68
53	Direct surface cyclotron resonance terahertz emission from a quantum cascade structure. Applied Physics Letters, 2012, 100, .	1.5	9
54	Charge-Induced Coherence between Intersubband Plasmons in a Quantum Structure. Physical Review Letters, 2012, 109, 246808.	2.9	91

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55	All-optical wavelength shifting in a semiconductor laser using resonant nonlinearities. Nature Photonics, 2012, 6, 519-524.	15.6	22
56	Phase-locking of a 25 THz quantum cascade laser to a frequency comb using a GaAs photomixer. Optics Letters, 2011, 36, 3969.	1.7	62
57	Coherent sampling of active mode-locked terahertz quantum cascade lasers and frequency synthesis. Nature Photonics, 2011, 5, 306-313.	15.6	189
58	Transition from strong to ultrastrong coupling regime in mid-infrared metal-dielectric-metal cavities. Applied Physics Letters, 2011, 98, .	1.5	38
59	Gain enhancement in a terahertz quantum cascade laser with parylene antireflection coatings. Applied Physics Letters, 2011, 98, .	1.5	16
60	Ultrastrong Light-Matter Coupling Regime with Polariton Dots. Physical Review Letters, 2010, 105, 196402.	2.9	358
61	Phase-locking of a 2.7-THz quantum cascade laser to a mode-locked erbium-doped fibre laser. Nature Photonics, 2010, 4, 636-640.	15.6	166
62	Injection of midinfrared surface plasmon polaritons with an integrated device. Applied Physics Letters, 2010, 97, .	1.5	16
63	Semiconductor Surface Plasmon Sources. Physical Review Letters, 2010, 104, 226806.	2.9	49
64	Optical properties of metal-dielectric-metal microcavities in the THz frequency range. Optics Express, 2010, 18, 13886.	1.7	156
65	Injection-locking of terahertz quantum cascade lasers up to 35GHz using RF amplitude modulation. Optics Express, 2010, 18, 20799.	1.7	103
66	Strong Light-Matter Coupling in Subwavelength Metal-Dielectric Microcavities at Terahertz Frequencies. Physical Review Letters, 2009, 102, 186402.	2.9	171
67	Integrated quantum cascade laser-modulator using vertically coupled cavities. Applied Physics Letters, 2009, 94, 211105.	1.5	6
68	QUANTUM CASCADE NANOSTRUCTURES UNDER HIGH MAGNETIC FIELD. International Journal of Modern Physics B, 2009, 23, 2861-2866.	1.0	1
69	Breaking energy bands. Nature Photonics, 2009, 3, 13-15.	15.6	8
70	Terahertz amplifier based on gain switching in a quantum cascade laser. Nature Photonics, 2009, 3, 715-719.	15.6	68
71	A semiconductor laser device for the generation of surface-plasmons upon electrical injection. Optics Express, 2009, 17, 9391.	1.7	26
72	Electrically Injected Cavity Polaritons. Physical Review Letters, 2008, 100, 136806.	2.9	71

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73	Gain Measurements of THz Quantum Cascade Lasers using THz Time-Domain Spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 436-442.	1.9	25
74	Terahertz Quantum Cascade Devices: From Intersubband Transition to Microcavity Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 307-314.	1.9	2
75	Surface plasmon quantum cascade lasers as terahertz local oscillators. Optics Letters, 2008, 33, 312.	1.7	34
76	Investigation of spectral gain narrowing in quantum cascade lasers using terahertz time domain spectroscopy. Applied Physics Letters, 2008, 93, 101115.	1.5	35
77	Metal-metal terahertz quantum cascade laser with micro-transverse-electromagnetic-horn antenna. Applied Physics Letters, 2008, 93, 183508.	1.5	62
78	Influence of the material parameters on quantum cascade devices. Applied Physics Letters, 2008, 93, 131108.	1.5	41
79	Stark-tunable electroluminescence from cavity polariton states. Applied Physics Letters, 2008, 93, 171105.	1.5	11
80	Effect of transverse mode structure on the far field pattern of metal-metal terahertz quantum cascade lasers. Journal of Applied Physics, 2008, 104, 124513.	1.1	14
81	Low threshold THz QC lasers with thin core regions. Electronics Letters, 2007, 43, 285.	0.5	19
82	Photovoltaic probe of cavity polaritons in a quantum cascade structure. Applied Physics Letters, 2007, 90, 201101.	1.5	32
83	Terahertz quantum cascade lasers with large wall-plug efficiency. Applied Physics Letters, 2007, 90, 191115.	1.5	60
84	Longitudinal spatial hole burning in terahertz quantum cascade lasers. Applied Physics Letters, 2007, 91, 161108.	1.5	23
85	13 GHz direct modulation of terahertz quantum cascade lasers. Applied Physics Letters, 2007, 91, .	1.5	88
86	QUANTUM EFFICIENCY OF A 2-LEVEL InAs/AlSb QUANTUM CASCADE STRUCTURE. International Journal of Modern Physics B, 2007, 21, 1471-1475.	1.0	1
87	Terahertz transfer onto a telecom optical carrier. Nature Photonics, 2007, 1, 411-415.	15.6	52
88	Phase-resolved measurements of stimulated emission in a laser. Nature, 2007, 449, 698-701.	13.7	171
89	Spectroscopy of GaAsâˆ•AlGaAs quantum-cascade lasers using hydrostatic pressure. Applied Physics Letters, 2006, 89, 221105.	1.5	12
90	Optical Mode Control of Surface-Plasmon Quantum Cascade Lasers. IEEE Photonics Technology Letters, 2006, 18, 2499-2501.	1.3	5

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91	Continuous wave operation of a superlattice quantum cascade laser emitting at 2 THz. Optics Express, 2006, 14, 171.	1.7	86
92	Subband electronic temperatures and electron-lattice energy relaxation in terahertz quantum cascade lasers with different conduction band offsets. Applied Physics Letters, 2006, 89, 131114.	1.5	32
93	Role of elastic scattering mechanisms in GaInAsâˆ•AlInAs quantum cascade lasers. Applied Physics Letters, 2006, 89, 172120.	1.5	45
94	High-power room temperature emission quantum cascade lasers at /spl lambda/=9 /spl mu/m. IEEE Journal of Quantum Electronics, 2005, 41, 1430-1438.	1.0	25
95	Quantum cascade intersubband polariton light emitters. Semiconductor Science and Technology, 2005, 20, 985-990.	1.0	54
96	Mechanisms of dynamic range limitations in GaAsâˆ•AlGaAs quantum-cascade lasers: Influence of injector doping. Applied Physics Letters, 2005, 86, 211117.	1.5	69
97	Room temperature operation of InAsâˆ•AlSb quantum cascade lasers. Applied Physics Letters, 2004, 85, 167-169.	1.5	80
98	Measurements of optical losses in mid-infrared semiconductor lasers using Fabryâ€"PÃ©rot transmission oscillations. Journal of Applied Physics, 2004, 95, 7584-7587.	1.1	16
99	Energy relaxation of magnetically confined electrons in quantum cascade lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 20, 503-506.	1.3	0
100	Low Threshold High-Power Room-Temperature Continuous-Wave Operation Diode Laser Emitting at 2.26<tex>$muhboxm$</tex>. IEEE Photonics Technology Letters, 2004, 16, 1253-1255.	1.3	28
101	Nonlinear phase matching in THz semiconductor waveguides. Semiconductor Science and Technology, 2004, 19, 964-970.	1.0	46
102	Intracavity sum-frequency generation in GaAs quantum cascade lasers. Applied Physics Letters, 2004, 84, 2019-2021.	1.5	40
103	Simultaneous measurement of the electronic and lattice temperatures in GaAs/Al0.45Ga0.55As quantum-cascade lasers: Influence on the optical performance. Applied Physics Letters, 2004, 84, 3690-3692.	1.5	70
104	Improved CW operation of GaAs-based QC lasers: T/sub max/= 150 K. IEEE Journal of Quantum Electronics, 2004, 40, 665-672.	1.0	35
105	Material engineering for InAs/GaSb/AlSb quantum cascade light emitting devices. Journal of Crystal Growth, 2003, 251, 723-728.	0.7	7
106	Thermal behavior of GaAs/AlGaAs quantum-cascade lasers: effect of the Al content in the barrier layers. Journal of Crystal Growth, 2003, 251, 701-706.	0.7	11
107	Thermoelastic stress in GaAs/AlGaAs quantum cascade lasers. Applied Physics Letters, 2003, 82, 4639-4641.	1.5	15
108	Temperature transients and thermal properties of GaAs/AlGaAs quantum-cascade lasers. Applied Physics Letters, 2003, 82, 4020-4022.	1.5	12

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109	High-temperature performance of GaAs-based bound-to-continuum quantum-cascade lasers. Applied Physics Letters, 2003, 83, 4698-4700.	1.5	82
110	High-performance continuous-wave operation of superlattice terahertz quantum-cascade lasers. Applied Physics Letters, 2003, 82, 1518-1520.	1.5	66
111	High reflectivity metallic mirror coatings for mid-infrared (Â Â 9 Âm) unipolar semiconductor lasers. Semiconductor Science and Technology, 2002, 17, 1312-1316.	1.0	19
112	GaAs-AlGaAs quantum cascade lasers: physics, technology, and prospects. IEEE Journal of Quantum Electronics, 2002, 38, 547-558.	1.0	74
113	GaAs quantum box cascade lasers. Applied Physics Letters, 2002, 81, 2941-2943.	1.5	63
114	Ultrafast coherent electron transport in GaAs/AlGaAs quantum cascade structures. Physica B: Condensed Matter, 2002, 314, 314-322.	1.3	6
115	High performance single mode GaAs quantum cascade lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 840-843.	1.3	4
116	Bridge for the terahertz gap. Nature, 2002, 417, 132-133.	13.7	286
117	Demonstration of (/spl lambda//spl ap/11.5-Î¼m) GaAs-based quantum cascade laser operating on a Peltier cooled element. IEEE Photonics Technology Letters, 2001, 13, 556-558.	1.3	13
118	300 K operation of a GaAs-based quantum-cascade laser at Î»â‰ˆ9 Î¼m. Applied Physics Letters, 2001, 78, 3529-3531.	1.5	234
119	Thermal resistance and temperature characteristics of GaAs/Al0.33Ga0.67As quantum-cascade lasers. Applied Physics Letters, 2001, 78, 1177-1179.	1.5	33
120	Monitoring the ultrafast electric field change at a mid-infrared plasma Bragg mirror. Optics Letters, 2001, 26, 1618.	1.7	1
121	GaAs quantum cascade laser spectroscopy by tunnelling magnetotransport. Physica B: Condensed Matter, 2001, 298, 348-352.	1.3	1
122	Facet temperature mapping of GaAs/AlGaAs quantum cascade lasers by photoluminescence microprobe. Optical Materials, 2001, 17, 219-222.	1.7	4
123	Design strategies for GaAs-based unipolar lasers: Optimum injector-active region coupling via resonant tunneling. Applied Physics Letters, 2001, 78, 282-284.	1.5	33
124	InAs/AlSb quantum-cascade light-emitting devices in the 3â€“5 Î¼m wavelength region. Applied Physics Letters, 2001, 78, 1029-1031.	1.5	42
125	Lateral current spreading in unipolar semiconductor lasers. Journal of Applied Physics, 2001, 90, 1688-1691.	1.1	15
126	Observation of electromagnetically induced transparency and measurements of subband dynamics in a semiconductor quantum well. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 166-173.	1.3	23

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127	High-power tunable quantum fountain unipolar lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 12-19.	1.3	17
128	Large electrically induced transmission changes of GaAs/AlGaAs quantum-cascade structures. Applied Physics Letters, 2000, 76, 3254-3256.	1.5	28
129	AlAs/GaAs quantum cascade lasers based on large direct conduction band discontinuity. Applied Physics Letters, 2000, 77, 463-465.	1.5	52
130	Gain measurements on GaAs-based quantum cascade lasers using a two-section cavity technique. IEEE Journal of Quantum Electronics, 2000, 36, 736-741.	1.0	24
131	Laser-Induced Quantum Coherence in a Semiconductor Quantum Well. Physical Review Letters, 2000, 84, 1019-1022.	2.9	335
132	Design and operation of mid-infrared light-emitting devices (lambdaapprox11 Âµm) based on a chirped superlattice. Semiconductor Science and Technology, 2000, 15, 44-50.	1.0	10
133	Improved temperature performance of Al0.33Ga0.67As/GaAs quantum-cascade lasers with emission wavelength at Î»â‰ˆ11â€ŠÎ¼m. Applied Physics Letters, 2000, 76, 3340-3342.	1.5	53
134	Chapter 2 Quantum Interference Effects in Intersubband Transitions. Semiconductors and Semimetals, 1999, 62, 101-128.	0.4	3
135	Low-loss Al-free waveguides for unipolar semiconductor lasers. Applied Physics Letters, 1999, 75, 3911-3913.	1.5	125
136	Chapter 2 Nonlinear Optics in Coupled-Quantum-Well Quasi-Molecules. Semiconductors and Semimetals, 1999, 66, 85-125.	0.4	7
137	Influence of DX centers on the performance of unipolar semiconductor lasers based on GaAs-Al/sub x/Ga/sub 1-x/As. IEEE Photonics Technology Letters, 1999, 11, 1090-1092.	1.3	11
138	High peak power (1.1 W) (Al)GaAs quantum cascade laser emitting at 9.7 [micro sign]m. Electronics Letters, 1999, 35, 1848.	0.5	22
139	Resonant tunneling in quantum cascade lasers. IEEE Journal of Quantum Electronics, 1998, 34, 1722-1729.	1.0	244
140	GaAs/AlxGa1â^'xAs quantum cascade lasers. Applied Physics Letters, 1998, 73, 3486-3488.	1.5	414
141	High-power continuous-wave quantum cascade lasers. IEEE Journal of Quantum Electronics, 1998, 34, 336-343.	1.0	117
142	Dual-wavelength emission from optically cascaded intersubband transitions. Optics Letters, 1998, 23, 463.	1.7	36
143	Long-wavelength (? ? 8â€“115??Âµm) semiconductor lasers with waveguides based on surface plasmons. Optics Letters, 1998, 23, 1366.	1.7	159
144	High-power long-wavelength (/spl lambda//spl sim/11.5 Î¼m) quantum cascade lasers operating above room temperature. IEEE Photonics Technology Letters, 1998, 10, 1100-1102.	1.3	40

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145	Intersubband emission in double-well structures with quantum interference in absorption. Applied Physics Letters, 1997, 71, 3477-3479.	1.5	33
146	Tunable interminiband infrared emission in superlattice electron transport. Applied Physics Letters, 1997, 70, 1796-1798.	1.5	28
147	Distributed feedback quantum cascade lasers. Applied Physics Letters, 1997, 70, 2670-2672.	1.5	335
148	High-Power Infrared (8-Micrometer Wavelength) Superlattice Lasers. Science, 1997, 276, 773-776.	6.0	161
149	Complex-coupled quantum cascade distributed-feedback laser. IEEE Photonics Technology Letters, 1997, 9, 1090-1092.	1.3	85
150	Pulsed and continuous-wave operation of long wavelength infrared (Î»=9.3 Î¼m) quantum cascade lasers. IEEE Journal of Quantum Electronics, 1997, 33, 89-93.	1.0	31
151	Long-wavelength (9.5-11.5 Î¼m) microdisk quantum-cascade lasers. IEEE Journal of Quantum Electronics, 1997, 33, 1567-1573.	1.0	58
152	Controlling the sign of quantum interference by tunnelling from quantum wells. Nature, 1997, 390, 589-591.	13.7	352
153	Laser action by tuning the oscillator strength. Nature, 1997, 387, 777-782.	13.7	120
154	Mid-infrared (8.5 Î¼m) semiconductor lasers operating at room temperature. IEEE Photonics Technology Letters, 1997, 9, 294-296.	1.3	81
155	Infrared (4â€“11 Î¼m) quantum cascade lasers. Solid State Communications, 1997, 102, 231-236.	0.9	84
156	High power midâ€infrared (Î»â^¼5 Î¼m) quantum cascade lasers operating above room temperature. Applied Physics Letters, 1996, 68, 3680-3682.	1.5	401
157	Quantum Cascade Lasers without Intersubband Population Inversion. Physical Review Letters, 1996, 76, 411-414.	2.9	123
158	Continuous wave operation of midinfrared (7.4â€“8.6 Î¼m) quantum cascade lasers up to 110 K temperature. Applied Physics Letters, 1996, 68, 1745-1747.	1.5	91
159	Tunable Fano interference in intersubband absorption. Optics Letters, 1996, 21, 985.	1.7	66
160	Mesoscopic phenomena in semiconductor nanostructures by quantum design. Journal of Mathematical Physics, 1996, 37, 4775-4792.	0.5	38
161	Continuous wave operation of quantum cascade lasers based on vertical transitions at Î»=4.6Î¼m. Superlattices and Microstructures, 1996, 19, 337-345.	1.4	21
162	Long wavelength vertical transition quantum cascade lasers operating CW at 110K. Superlattices and Microstructures, 1996, 19, 357-363.	1.4	3

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164	Quantum cascade disk lasers. Applied Physics Letters, 1996, 69, 2456-2458.	1.5	86
165	Quantum cascade laser: A new optical source in the mid-infrared. Infrared Physics and Technology, 1995, 36, 99-103.	1.3	16
166	Quantum cascade laser with plasmonâ€enhanced waveguide operating at 8.4 Î¼m wavelength. Applied Physics Letters, 1995, 66, 3242-3244.	1.5	139
167	Continuous wave operation of a vertical transition quantum cascade laser above T=80 K. Applied Physics Letters, 1995, 67, 3057-3059.	1.5	165
168	Vertical transition quantum cascade laser with Bragg confined excited state. Applied Physics Letters, 1995, 66, 538-540.	1.5	191
169	Quantum cascade unipolar intersubband light emitting diodes in the 8â€“13 Î¼m wavelength region. Applied Physics Letters, 1995, 66, 4-6.	1.5	48
170	Quantum cascade laser: Temperature dependence of the performance characteristics and highT0operation. Applied Physics Letters, 1994, 65, 2901-2903.	1.5	94
171	Phonon limited intersubband lifetimes and linewidths in a twoâ€dimensional electron gas. Applied Physics Letters, 1994, 64, 872-874.	1.5	98
172	Formation of new energy bands and minigap suppression by hybridization of barrier and well resonances in semiconductor superlattices. Applied Physics Letters, 1994, 64, 2982-2984.	1.5	6
173	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
174	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
175	Quantum Cascade Laser. Science, 1994, 264, 553-556.	6.0	4,380
176	Quantum cascade laser: An intersub-band semiconductor laser operating above liquid nitrogen temperature. Electronics Letters, 1994, 30, 865.	0.5	46
177	Midâ€infrared fieldâ€tunable intersubband electroluminescence at room temperature by photonâ€assisted tunneling in coupledâ€quantum wells. Applied Physics Letters, 1994, 64, 1144-1146.	1.5	69
178	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
179	Coupled quantum well semiconductors with giant electric field tunable nonlinear optical properties in the infrared. IEEE Journal of Quantum Electronics, 1994, 30, 1313-1326.	1.0	173
180	Narrowing of the intersubband electroluminescent spectrum in coupledâ€quantumâ€well heterostructures. Applied Physics Letters, 1994, 65, 94-96.	1.5	71

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181	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
182	Photocurrent reversal induced by localized continuum resonances in asymmetric quantum semiconductor structures. Applied Physics Letters, 1993, 63, 2670-2672.	1.5	11
183	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
184	Resonant Stark tuning of secondâ€order susceptibility in coupled quantum wells. Applied Physics Letters, 1992, 60, 151-153.	1.5	83
185	Giant, triply resonant, third-order nonlinear susceptibilityÏ‡3Ï‰(3)in coupled quantum wells. Physical Review Letters, 1992, 68, 1010-1013.	2.9	186
186	Quantum wells with localized states at energies above the barrier height: A Fabryâ€"Perot electron filter. Applied Physics Letters, 1992, 61, 898-900.	1.5	75
187	Resonant multiphoton electron emission from a quantum well. Applied Physics Letters, 1992, 60, 2678-2680.	1.5	19
188	Observation of an electronic bound state above a potential well. Nature, 1992, 358, 565-567.	13.7	284
189	Observation of large second order susceptibility via intersubband transitions at Î»â^¼10 Î¼m in asymmetric coupled AlInAs/GaInAs quantum wells. Applied Physics Letters, 1991, 59, 2302-2304.	1.5	103