

Carlo Sirtori

List of Publications by Year in descending order

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189
papers

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19636

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123
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190
all docs

190
docs citations

190
times ranked

6405
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Cascade Laser. <i>Science</i> , 1994, 264, 553-556.	6.0	4,380
2	GaAs/AlxGa1-xAs quantum cascade lasers. <i>Applied Physics Letters</i> , 1998, 73, 3486-3488.	1.5	414
3	High power mid-infrared (8-14.5 μ m) quantum cascade lasers operating above room temperature. <i>Applied Physics Letters</i> , 1996, 68, 3680-3682.	1.5	401
4	Ultrastrong Light-Matter Coupling Regime with Polariton Dots. <i>Physical Review Letters</i> , 2010, 105, 196402.	2.9	358
5	Controlling the sign of quantum interference by tunnelling from quantum wells. <i>Nature</i> , 1997, 390, 589-591.	13.7	352
6	Distributed feedback quantum cascade lasers. <i>Applied Physics Letters</i> , 1997, 70, 2670-2672.	1.5	335
7	Laser-Induced Quantum Coherence in a Semiconductor Quantum Well. <i>Physical Review Letters</i> , 2000, 84, 1019-1022.	2.9	335
8	Bridge for the terahertz gap. <i>Nature</i> , 2002, 417, 132-133.	13.7	286
9	Observation of an electronic bound state above a potential well. <i>Nature</i> , 1992, 358, 565-567.	13.7	284
10	Nonparabolicity and a sum rule associated with bound-to-bound and bound-to-continuum intersubband transitions in quantum wells. <i>Physical Review B</i> , 1994, 50, 8663-8674.	1.1	271
11	Resonant tunneling in quantum cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , 1998, 34, 1722-1729.	1.0	244
12	300 K operation of a GaAs-based quantum-cascade laser at 9 μ m. <i>Applied Physics Letters</i> , 2001, 78, 3529-3531.	1.5	234
13	Room-temperature nine- μ m-wavelength photodetectors and GHz-frequency heterodyne receivers. <i>Nature</i> , 2018, 556, 85-88.	13.7	197
14	Vertical transition quantum cascade laser with Bragg confined excited state. <i>Applied Physics Letters</i> , 1995, 66, 538-540.	1.5	191
15	Coherent sampling of active mode-locked terahertz quantum cascade lasers and frequency synthesis. <i>Nature Photonics</i> , 2011, 5, 306-313.	15.6	189
16	Giant, triply resonant, third-order nonlinear susceptibility $\chi^{(3)}$ in coupled quantum wells. <i>Physical Review Letters</i> , 1992, 68, 1010-1013.	2.9	186
17	Coupled quantum well semiconductors with giant electric field tunable nonlinear optical properties in the infrared. <i>IEEE Journal of Quantum Electronics</i> , 1994, 30, 1313-1326.	1.0	173
18	Phase-resolved measurements of stimulated emission in a laser. <i>Nature</i> , 2007, 449, 698-701.	13.7	171

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19	Strong Light-Matter Coupling in Subwavelength Metal-Dielectric Microcavities at Terahertz Frequencies. <i>Physical Review Letters</i> , 2009, 102, 186402.	2.9	171
20	Phase-locking of a 2.7-THz quantum cascade laser to a mode-locked erbium-doped fibre laser. <i>Nature Photonics</i> , 2010, 4, 636-640.	15.6	166
21	Continuous wave operation of a vertical transition quantum cascade laser above T=80 K. <i>Applied Physics Letters</i> , 1995, 67, 3057-3059.	1.5	165
22	High-Power Infrared (8-Micrometer Wavelength) Superlattice Lasers. <i>Science</i> , 1997, 276, 773-776.	6.0	161
23	Long-wavelength ($\approx 115\ \mu\text{m}$) semiconductor lasers with waveguides based on surface plasmons. <i>Optics Letters</i> , 1998, 23, 1366.	1.7	159
24	Optical properties of metal-dielectric-metal microcavities in the THz frequency range. <i>Optics Express</i> , 2010, 18, 13886.	1.7	156
25	Quantum cascade laser with plasmon-enhanced waveguide operating at 8.4 μm wavelength. <i>Applied Physics Letters</i> , 1995, 66, 3242-3244.	1.5	139
26	Low-loss Al-free waveguides for unipolar semiconductor lasers. <i>Applied Physics Letters</i> , 1999, 75, 3911-3913.	1.5	125
27	Quantum Cascade Lasers without Intersubband Population Inversion. <i>Physical Review Letters</i> , 1996, 76, 411-414.	2.9	123
28	Laser action by tuning the oscillator strength. <i>Nature</i> , 1997, 387, 777-782.	13.7	120
29	Wave engineering with THz quantum cascade lasers. <i>Nature Photonics</i> , 2013, 7, 691-701.	15.6	118
30	High-power continuous-wave quantum cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , 1998, 34, 336-343.	1.0	117
31	Measurement of the intersubband scattering rate in semiconductor quantum wells by excited state differential absorption spectroscopy. <i>Applied Physics Letters</i> , 1993, 63, 1354-1356.	1.5	115
32	Observation of large second order susceptibility via intersubband transitions at $\approx 10\ \mu\text{m}$ in asymmetric coupled AlInAs/GaInAs quantum wells. <i>Applied Physics Letters</i> , 1991, 59, 2302-2304.	1.5	103
33	Injection-locking of terahertz quantum cascade lasers up to 35GHz using RF amplitude modulation. <i>Optics Express</i> , 2010, 18, 20799.	1.7	103
34	Phonon limited intersubband lifetimes and linewidths in a two-dimensional electron gas. <i>Applied Physics Letters</i> , 1994, 64, 872-874.	1.5	98
35	Quantum cascade laser: Temperature dependence of the performance characteristics and high T operation. <i>Applied Physics Letters</i> , 1994, 65, 2901-2903.	1.5	94
36	Long wavelength infrared ($\approx 11\ \mu\text{m}$) quantum cascade lasers. <i>Applied Physics Letters</i> , 1996, 69, 2810-2812.	1.5	94

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37	Continuous wave operation of midinfrared (7.4–8.6 μm) quantum cascade lasers up to 110 K temperature. Applied Physics Letters, 1996, 68, 1745-1747.	1.5	91
38	Charge-Induced Coherence between Intersubband Plasmons in a Quantum Structure. Physical Review Letters, 2012, 109, 246808.	2.9	91
39	13 GHz direct modulation of terahertz quantum cascade lasers. Applied Physics Letters, 2007, 91, .	1.5	88
40	Quantum cascade disk lasers. Applied Physics Letters, 1996, 69, 2456-2458.	1.5	86
41	Continuous wave operation of a superlattice quantum cascade laser emitting at 2 THz. Optics Express, 2006, 14, 171.	1.7	86
42	Complex-coupled quantum cascade distributed-feedback laser. IEEE Photonics Technology Letters, 1997, 9, 1090-1092.	1.3	85
43	Infrared (4–11 μm) quantum cascade lasers. Solid State Communications, 1997, 102, 231-236.	0.9	84
44	Resonant Stark tuning of second-order susceptibility in coupled quantum wells. Applied Physics Letters, 1992, 60, 151-153.	1.5	83
45	High-temperature performance of GaAs-based bound-to-continuum quantum-cascade lasers. Applied Physics Letters, 2003, 83, 4698-4700.	1.5	82
46	Mid-infrared (8.5 μm) semiconductor lasers operating at room temperature. IEEE Photonics Technology Letters, 1997, 9, 294-296.	1.3	81
47	Room temperature operation of InAs/AlSb quantum cascade lasers. Applied Physics Letters, 2004, 85, 167-169.	1.5	80
48	Electrically Injected Photon-Pair Source at Room Temperature. Physical Review Letters, 2014, 112, 183901.	2.9	78
49	Quantum wells with localized states at energies above the barrier height: A Fabry-Perot electron filter. Applied Physics Letters, 1992, 61, 898-900.	1.5	75
50	GaAs-AlGaAs quantum cascade lasers: physics, technology, and prospects. IEEE Journal of Quantum Electronics, 2002, 38, 547-558.	1.0	74
51	Narrowing of the intersubband electroluminescent spectrum in coupled quantum well heterostructures. Applied Physics Letters, 1994, 65, 94-96.	1.5	71
52	Electrically Injected Cavity Polaritons. Physical Review Letters, 2008, 100, 136806.	2.9	71
53	Simultaneous measurement of the electronic and lattice temperatures in GaAs/Al _{0.45} Ga _{0.55} As quantum-cascade lasers: Influence on the optical performance. Applied Physics Letters, 2004, 84, 3690-3692.	1.5	70
54	Dynamics of ultra-broadband terahertz quantum cascade lasers for comb operation. Optics Express, 2015, 23, 33270.	1.7	70

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55	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
56	Mechanisms of dynamic range limitations in GaAs/AlGaAs quantum-cascade lasers: Influence of injector doping. Applied Physics Letters, 2005, 86, 2111-17.	1.5	69
57	Terahertz amplifier based on gain switching in a quantum cascade laser. Nature Photonics, 2009, 3, 715-719.	15.6	68
58	Measurement of the intrinsic linewidth of terahertz quantum cascade lasers using a near-infrared frequency comb. Optics Express, 2012, 20, 25654.	1.7	68
59	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser. Laser and Photonics Reviews, 2017, 11, 1700013.	4.4	67
60	Tunable Fano interference in intersubband absorption. Optics Letters, 1996, 21, 985.	1.7	66
61	High-performance continuous-wave operation of superlattice terahertz quantum-cascade lasers. Applied Physics Letters, 2003, 82, 1518-1520.	1.5	66
62	GaAs quantum box cascade lasers. Applied Physics Letters, 2002, 81, 2941-2943.	1.5	63
63	Metal-metal terahertz quantum cascade laser with micro-transverse-electromagnetic-horn antenna. Applied Physics Letters, 2008, 93, 183508.	1.5	62
64	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
65	Patch antenna terahertz photodetectors. Applied Physics Letters, 2015, 106, .	1.5	61
66	Terahertz quantum cascade lasers with large wall-plug efficiency. Applied Physics Letters, 2007, 90, 1911-15.	1.5	60
67	Long-wavelength (9.5-11.5 μ m) microdisk quantum-cascade lasers. IEEE Journal of Quantum Electronics, 1997, 33, 1567-1573.	1.0	58
68	Quantum cascade intersubband polariton light emitters. Semiconductor Science and Technology, 2005, 20, 985-990.	1.0	54
69	Improved temperature performance of Al _{0.33} Ga _{0.67} As/GaAs quantum-cascade lasers with emission wavelength at $\lambda = 11 \mu$ m. Applied Physics Letters, 2000, 76, 3340-3342.	1.5	53
70	AlAs/GaAs quantum cascade lasers based on large direct conduction band discontinuity. Applied Physics Letters, 2000, 77, 463-465.	1.5	52
71	Terahertz transfer onto a telecom optical carrier. Nature Photonics, 2007, 1, 411-415.	15.6	52
72	Superradiant Emission from a Collective Excitation in a Semiconductor. Physical Review Letters, 2015, 115, 187402.	2.9	51

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73	Semiconductor Surface Plasmon Sources. <i>Physical Review Letters</i> , 2010, 104, 226806.	2.9	49
74	Quantum cascade unipolar intersubband light emitting diodes in the 8–13 μm wavelength region. <i>Applied Physics Letters</i> , 1995, 66, 4-6.	1.5	48
75	Quantum cascade laser: An intersub-band semiconductor laser operating above liquid nitrogen temperature. <i>Electronics Letters</i> , 1994, 30, 865.	0.5	46
76	Nonlinear phase matching in THz semiconductor waveguides. <i>Semiconductor Science and Technology</i> , 2004, 19, 964-970.	1.0	46
77	Role of elastic scattering mechanisms in GaInAs/AlInAs quantum cascade lasers. <i>Applied Physics Letters</i> , 2006, 89, 172120.	1.5	45
78	High frequency modulation of mid-infrared quantum cascade lasers embedded into microstrip line. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	44
79	Injection locking of mid-infrared quantum cascade laser at 14 GHz, by direct microwave modulation. <i>Laser and Photonics Reviews</i> , 2014, 8, 443-449.	4.4	44
80	InAs/AlSb quantum-cascade light-emitting devices in the 3–5 μm wavelength region. <i>Applied Physics Letters</i> , 2001, 78, 1029-1031.	1.5	42
81	Influence of the material parameters on quantum cascade devices. <i>Applied Physics Letters</i> , 2008, 93, 131108.	1.5	41
82	High-power long-wavelength ($\lambda \sim 11.5 \mu\text{m}$) quantum cascade lasers operating above room temperature. <i>IEEE Photonics Technology Letters</i> , 1998, 10, 1100-1102.	1.3	40
83	Intracavity sum-frequency generation in GaAs quantum cascade lasers. <i>Applied Physics Letters</i> , 2004, 84, 2019-2021.	1.5	40
84	Mesoscopic phenomena in semiconductor nanostructures by quantum design. <i>Journal of Mathematical Physics</i> , 1996, 37, 4775-4792.	0.5	38
85	Transition from strong to ultrastrong coupling regime in mid-infrared metal-dielectric-metal cavities. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	38
86	Ultra-subwavelength resonators for high temperature high performance quantum detectors. <i>New Journal of Physics</i> , 2016, 18, 113016.	1.2	38
87	Ultrastrong Light-Matter Coupling in Deeply Subwavelength THz LC Resonators. <i>ACS Photonics</i> , 2019, 6, 1207-1215.	3.2	37
88	Dual-wavelength emission from optically cascaded intersubband transitions. <i>Optics Letters</i> , 1998, 23, 463.	1.7	36
89	Extremely sub-wavelength THz metal-dielectric wire microcavities. <i>Optics Express</i> , 2012, 20, 29121.	1.7	36
90	Improved CW operation of GaAs-based QC lasers: $T_{\text{sub max}} = 150 \text{ K}$. <i>IEEE Journal of Quantum Electronics</i> , 2004, 40, 665-672.	1.0	35

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91	Investigation of spectral gain narrowing in quantum cascade lasers using terahertz time domain spectroscopy. Applied Physics Letters, 2008, 93, 101115.	1.5	35
92	10 Gbit s ⁻¹ Free Space Data Transmission at 9.3 μm Wavelength With Unipolar Quantum Optoelectronics. Laser and Photonics Reviews, 2022, 16, .	4.4	35
93	Surface plasmon quantum cascade lasers as terahertz local oscillators. Optics Letters, 2008, 33, 312.	1.7	34
94	Intersubband emission in double-well structures with quantum interference in absorption. Applied Physics Letters, 1997, 71, 3477-3479.	1.5	33
95	Thermal resistance and temperature characteristics of GaAs/Al _{0.33} Ga _{0.67} As quantum-cascade lasers. Applied Physics Letters, 2001, 78, 1177-1179.	1.5	33
96	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
97	Midinfrared Ultrastrong Light-Matter Coupling for THz Thermal Emission. ACS Photonics, 2017, 4, 2550-2555.	3.2	33
98	Long-wavelength infrared photovoltaic heterodyne receivers using patch-antenna quantum cascade detectors. Applied Physics Letters, 2020, 116, .	1.5	33
99	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
100	Photovoltaic probe of cavity polaritons in a quantum cascade structure. Applied Physics Letters, 2007, 90, 201101.	1.5	32
101	Pulsed and continuous-wave operation of long wavelength infrared (λ=9.3 μm) quantum cascade lasers. IEEE Journal of Quantum Electronics, 1997, 33, 89-93.	1.0	31
102	Coupled-cavity terahertz quantum cascade lasers for single mode operation. Applied Physics Letters, 2014, 104, .	1.5	30
103	5-ps-long terahertz pulses from an active-mode-locked quantum cascade laser. Optica, 2017, 4, 168.	4.8	30
104	Tunable interminiband infrared emission in superlattice electron transport. Applied Physics Letters, 1997, 70, 1796-1798.	1.5	28
105	Large electrically induced transmission changes of GaAs/AlGaAs quantum-cascade structures. Applied Physics Letters, 2000, 76, 3254-3256.	1.5	28
106	Low Threshold High-Power Room-Temperature Continuous-Wave Operation Diode Laser Emitting at 2.26 μm. IEEE Photonics Technology Letters, 2004, 16, 1253-1255.	1.3	28
107	Room-Temperature, Wide-Band, Quantum Well Infrared Photodetector for Microwave Optical Links at 4.9 μm Wavelength. ACS Photonics, 2018, 5, 3689-3694.	3.2	27
108	Dynamics of a broad-band quantum cascade laser: from chaos to coherent dynamics and mode-locking. Optics Express, 2018, 26, 2829.	1.7	27

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109	A semiconductor laser device for the generation of surface-plasmons upon electrical injection. Optics Express, 2009, 17, 9391.	1.7	26
110	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
111	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
112	Sub-diffraction-limit semiconductor resonators operating on the fundamental magnetic resonance. Applied Physics Letters, 2012, 100, .	1.5	25
113	Terahertz race heats up. Nature Photonics, 2021, 15, 1-2.	15.6	25
114	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
115	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
116	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
117	Longitudinal spatial hole burning in terahertz quantum cascade lasers. Applied Physics Letters, 2007, 91, 161108.	1.5	23
118	High temperature metamaterial terahertz quantum detector. Applied Physics Letters, 2020, 117, .	1.5	23
119	High peak power (1.1 W) (Al)GaAs quantum cascade laser emitting at 9.7 μm . Electronics Letters, 1999, 35, 1848.	0.5	22
120	All-optical wavelength shifting in a semiconductor laser using resonant nonlinearities. Nature Photonics, 2012, 6, 519-524.	15.6	22
121	Continuous wave operation of quantum cascade lasers based on vertical transitions at $\lambda = 4.6 \mu\text{m}$. Superlattices and Microstructures, 1996, 19, 337-345.	1.4	21
122	Absorption Engineering in an Ultrasubwavelength Quantum System. Nano Letters, 2020, 20, 4430-4436.	4.5	21
123	Resonant multiphoton electron emission from a quantum well. Applied Physics Letters, 1992, 60, 2678-2680.	1.5	19
124	High reflectivity metallic mirror coatings for mid-infrared ($9 \mu\text{m}$) unipolar semiconductor lasers. Semiconductor Science and Technology, 2002, 17, 1312-1316.	1.0	19
125	Low threshold THz QC lasers with thin core regions. Electronics Letters, 2007, 43, 285.	0.5	19
126	High-power tunable quantum fountain unipolar lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 12-19.	1.3	17

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127	Quantum cascade laser: A new optical source in the mid-infrared. <i>Infrared Physics and Technology</i> , 1995, 36, 99-103.	1.3	16
128	Measurements of optical losses in mid-infrared semiconductor lasers using Fabry-Pérot transmission oscillations. <i>Journal of Applied Physics</i> , 2004, 95, 7584-7587.	1.1	16
129	Injection of midinfrared surface plasmon polaritons with an integrated device. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	16
130	Gain enhancement in a terahertz quantum cascade laser with parylene antireflection coatings. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	16
131	Lateral current spreading in unipolar semiconductor lasers. <i>Journal of Applied Physics</i> , 2001, 90, 1688-1691.	1.1	15
132	Thermoelastic stress in GaAs/AlGaAs quantum cascade lasers. <i>Applied Physics Letters</i> , 2003, 82, 4639-4641.	1.5	15
133	Radiatively Broadened Incandescent Sources. <i>ACS Photonics</i> , 2015, 2, 1663-1668.	3.2	15
134	Carrier Recombination, Long-Wavelength Photoluminescence, and Stimulated Emission in HgCdTe Quantum Well Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800546.	0.7	15
135	Effect of transverse mode structure on the far field pattern of metal-metal terahertz quantum cascade lasers. <i>Journal of Applied Physics</i> , 2008, 104, 124513.	1.1	14
136	Demonstration of ($\lambda/11.5$) GaAs-based quantum cascade laser operating on a Peltier cooled element. <i>IEEE Photonics Technology Letters</i> , 2001, 13, 556-558.	1.3	13
137	Electrical modulation of the complex refractive index in mid-infrared quantum cascade lasers. <i>Optics Express</i> , 2012, 20, 1172.	1.7	13
138	Three-dimensional THz lumped-circuit resonators. <i>Optics Express</i> , 2015, 23, 16838.	1.7	13
139	Coulomb forces in THz electromechanical meta-atoms. <i>Nanophotonics</i> , 2019, 8, 2269-2277.	2.9	13
140	Intersubband lifetime in quantum wells with transition energies above and below the optical phonon energy. <i>Solid-State Electronics</i> , 1994, 37, 1273-1276.	0.8	12
141	Temperature transients and thermal properties of GaAs/AlGaAs quantum-cascade lasers. <i>Applied Physics Letters</i> , 2003, 82, 4020-4022.	1.5	12
142	Spectroscopy of GaAs/AlGaAs quantum-cascade lasers using hydrostatic pressure. <i>Applied Physics Letters</i> , 2006, 89, 221105.	1.5	12
143	Mixing Properties of Room Temperature Patch Antenna Receivers in a Mid-Infrared ($\lambda = 9 \mu\text{m}$) Heterodyne System. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900207.	4.4	12
144	Broadband Enhancement of Mid-Wave Infrared Absorption in a Multi-Resonant Nanocrystal-Based Device. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	12

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145	Photocurrent reversal induced by localized continuum resonances in asymmetric quantum semiconductor structures. Applied Physics Letters, 1993, 63, 2670-2672.	1.5	11
146	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
147	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
148	Stark-tunable electroluminescence from cavity polariton states. Applied Physics Letters, 2008, 93, 171105.	1.5	11
149	Near-field spectroscopy and tuning of sub-surface modes in plasmonic terahertz resonators. Optics Express, 2018, 26, 7437.	1.7	11
150	Design and operation of mid-infrared light-emitting devices ($\lambda \approx 11 \mu\text{m}$) based on a chirped superlattice. Semiconductor Science and Technology, 2000, 15, 44-50.	1.0	10
151	Noise characterization of patch antenna THz photodetectors. Applied Physics Letters, 2018, 113, .	1.5	10
152	Time resolved Fabry-Perot measurements of cavity temperature in pulsed QCLs. Optics Express, 2018, 26, 6572.	1.7	10
153	Direct surface cyclotron resonance terahertz emission from a quantum cascade structure. Applied Physics Letters, 2012, 100, .	1.5	9
154	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
155	Electrical excitation of superradiant intersubband plasmons. Applied Physics Letters, 2015, 107, .	1.5	9
156	Semiconductor Quantum Plasmonics. Physical Review Letters, 2020, 125, 187401.	2.9	9
157	Unambiguous real-time terahertz frequency metrology using dual 10 ⁶ GHz femtosecond frequency combs. Optica, 2018, 5, 1431.	4.8	9
158	Breaking energy bands. Nature Photonics, 2009, 3, 13-15.	15.6	8
159	Chapter 2 Nonlinear Optics in Coupled-Quantum-Well Quasi-Molecules. Semiconductors and Semimetals, 1999, 66, 85-125.	0.4	7
160	Material engineering for InAs/GaSb/AlSb quantum cascade light emitting devices. Journal of Crystal Growth, 2003, 251, 723-728.	0.7	7
161	Nanoscale electromagnetic confinement in THz circuit resonators. Optics Express, 2017, 25, 28718.	1.7	7
162	Tunability of the Free-Spectral Range by Microwave Injection into a Mid-Infrared Quantum Cascade Laser. Laser and Photonics Reviews, 2020, 14, 1900389.	4.4	7

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163	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
164	Ultrafast coherent electron transport in GaAs/AlGaAs quantum cascade structures. Physica B: Condensed Matter, 2002, 314, 314-322.	1.3	6
165	Integrated quantum cascade laser-modulator using vertically coupled cavities. Applied Physics Letters, 2009, 94, 211105.	1.5	6
166	Optical Mode Control of Surface-Plasmon Quantum Cascade Lasers. IEEE Photonics Technology Letters, 2006, 18, 2499-2501.	1.3	5
167	Patch antenna microcavity terahertz sources with enhanced emission. Applied Physics Letters, 2016, 109, .	1.5	5
168	Quantum Theory of Multisubband Plasmon-Phonon Coupling. Photonics, 2020, 7, 19.	0.9	5
169	Long wavelength (>13 μ m) quantum cascade laser based on diagonal transition and three-phonon-resonance design. Applied Physics Letters, 2021, 119, .	1.5	5
170	Facet temperature mapping of GaAs/AlGaAs quantum cascade lasers by photoluminescence microprobe. Optical Materials, 2001, 17, 219-222.	1.7	4
171	High performance single mode GaAs quantum cascade lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 840-843.	1.3	4
172	Multi-Terahertz Sideband Generation on an Optical Telecom Carrier with a Quantum Cascade Laser. ACS Photonics, 2018, 5, 890-896.	3.2	4
173	Long wavelength vertical transition quantum cascade lasers operating CW at 110K. Superlattices and Microstructures, 1996, 19, 357-363.	1.4	3
174	Chapter 2 Quantum Interference Effects in Intersubband Transitions. Semiconductors and Semimetals, 1999, 62, 101-128.	0.4	3
175	Optical sideband generation up to room temperature with mid-infrared quantum cascade lasers. Optics Express, 2015, 23, 4012.	1.7	3
176	Terahertz Emission from HgCdTe QWs under Long-Wavelength Optical Pumping. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 750-757.	1.2	3
177	Optomechanical temporal sampling of terahertz signals. Applied Physics Letters, 2021, 119, 181103.	1.5	3
178	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
179	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
180	Mode stabilization in quantum cascade lasers via an intra-cavity cascaded nonlinearity. Optics Express, 2017, 25, 1847.	1.7	2

#	ARTICLE	IF	CITATIONS
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