

Raffaele Colombelli

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151
papers

4,228
citations

31
h-index

59
g-index

199
ext. papers

5,070
ext. citations

5.3
avg, IF

4.97
L-index

#	Paper	IF	Citations
151	Ultrastrong light-matter coupling regime with polariton dots. <i>Physical Review Letters</i> , 2010 , 105, 196402	7.4	305
150	Electrically pumped photonic-crystal terahertz lasers controlled by boundary conditions. <i>Nature</i> , 2009 , 457, 174-8	50.4	244
149	Quantum cascade surface-emitting photonic crystal laser. <i>Science</i> , 2003 , 302, 1374-7	33.3	228
148	Quantum cascade lasers: ultrahigh-speed operation, optical wireless communication, narrow linewidth, and far-infrared emission. <i>IEEE Journal of Quantum Electronics</i> , 2002 , 38, 511-532	2	216
147	Ultra-broadband semiconductor laser. <i>Nature</i> , 2002 , 415, 883-7	50.4	194
146	Far-infrared surface-plasmon quantum-cascade lasers at 21.5 μm and 24 μm wavelengths. <i>Applied Physics Letters</i> , 2001 , 78, 2620-2622	3.4	160
145	Strong light-matter coupling in subwavelength metal-dielectric microcavities at terahertz frequencies. <i>Physical Review Letters</i> , 2009 , 102, 186402	7.4	135
144	Optical properties of metal-dielectric-metal microcavities in the THz frequency range. <i>Optics Express</i> , 2010 , 18, 13886-907	3.3	114
143	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	33.9	110
142	Wave engineering with THz quantum cascade lasers. <i>Nature Photonics</i> , 2013 , 7, 691-701	33.9	103
141	Efficient power extraction in surface-emitting semiconductor lasers using graded photonic heterostructures. <i>Nature Communications</i> , 2012 , 3, 952	17.4	96
140	Resonant second-order nonlinear optical processes in quantum cascade lasers. <i>Physical Review Letters</i> , 2003 , 90, 043902	7.4	84
139	Quantum cascade lasers with double metal-semiconductor waveguide resonators. <i>Applied Physics Letters</i> , 2002 , 80, 3060-3062	3.4	81
138	Terahertz intersubband absorption in GaN/AlGaIn step quantum wells. <i>Applied Physics Letters</i> , 2010 , 97, 191101	3.4	77
137	. <i>IEEE Journal of Quantum Electronics</i> , 2002 , 38, 569-581	2	68
136	Antenna-coupled microcavities for enhanced infrared photo-detection. <i>Applied Physics Letters</i> , 2014 , 104, 031113	3.4	54
135	Electrically injected cavity polaritons. <i>Physical Review Letters</i> , 2008 , 100, 136806	7.4	54

134	Limiting Factors to the Temperature Performance of THz Quantum Cascade Lasers Based on the Resonant-Phonon Depopulation Scheme. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2012 , 2, 83-92	3.4	53
133	Perfect energy-feeding into strongly coupled systems and interferometric control of polariton absorption. <i>Nature Physics</i> , 2014 , 10, 830-834	16.2	52
132	Design of mid-IR and THz quantum cascade laser cavities with complete TM photonic bandgap. <i>Optics Express</i> , 2007 , 15, 5948-65	3.3	52
131	Intersubband absorption of cubic GaN/Al(Ga)N quantum wells in the near-infrared to terahertz spectral range. <i>Physical Review B</i> , 2011 , 83,	3.3	48
130	Coupling of a surface plasmon with localized subwavelength microcavity modes. <i>Applied Physics Letters</i> , 2011 , 98, 021105	3.4	44
129	Quantum cascade intersubband polariton light emitters. <i>Semiconductor Science and Technology</i> , 2005 , 20, 985-990	1.8	44
128	High-speed operation of GaN/AlGaIn quantum cascade detectors at 1.55 μ m. <i>Applied Physics Letters</i> , 2008 , 93, 193509	3.4	43
127	Graded photonic crystal terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2010 , 96, 031104	3.4	42
126	Semiconductor surface plasmon sources. <i>Physical Review Letters</i> , 2010 , 104, 226806	7.4	41
125	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700013	8.3	40
124	Generating ultrafast pulses of light from quantum cascade lasers. <i>Optica</i> , 2015 , 2, 944	8.6	36
123	Intraband absorption of doped GaN/AlIn quantum dots at telecommunication wavelengths. <i>Applied Physics Letters</i> , 2005 , 87, 101912	3.4	36
122	GaN-based quantum dot infrared photodetector operating at 1.38 [μ m]. <i>Electronics Letters</i> , 2005 , 41, 1077	1.1	32
121	Terahertz microcavity lasers with subwavelength mode volumes and thresholds in the milliwatt range. <i>Applied Physics Letters</i> , 2007 , 90, 091113	3.4	29
120	Optical critical coupling into highly confining metal-insulator-metal resonators. <i>Applied Physics Letters</i> , 2013 , 103, 091110	3.4	26
119	Predictable surface emission patterns in terahertz photonic-crystal quantum cascade lasers. <i>Optics Express</i> , 2009 , 17, 9491-502	3.3	25
118	Surface-emitting terahertz quantum cascade lasers with continuous-wave power in the tens of milliwatt range. <i>Applied Physics Letters</i> , 2014 , 104, 091112	3.4	24
117	Photovoltaic probe of cavity polaritons in a quantum cascade structure. <i>Applied Physics Letters</i> , 2007 , 90, 201101	3.4	24

116	Conduction-band offset of single InAs monolayers on GaAs. <i>Applied Physics Letters</i> , 2000 , 76, 1146-1148	3.4	24
115	Resonant second harmonic generation in ZnSe bulk microcavity. <i>Applied Physics Letters</i> , 1999 , 74, 1945-1947	3.4	24
114	Subwavelength metallic waveguides as a tool for extreme confinement of THz surface waves. <i>Scientific Reports</i> , 2013 , 3, 1369	4.9	23
113	A semiconductor laser device for the generation of surface-plasmons upon electrical injection. <i>Optics Express</i> , 2009 , 17, 9391-400	3.3	22
112	Room-temperature operation of $\lambda/5$ surface-plasmon quantum cascade lasers. <i>Applied Physics Letters</i> , 2006 , 88, 181103	3.4	22
111	Terahertz quantum cascade lasers in a magnetic field. <i>Applied Physics Letters</i> , 2003 , 83, 3873-3875	3.4	22
110	Surface-emitting quantum cascade lasers with metallic photonic-crystal resonators. <i>Applied Physics Letters</i> , 2009 , 94, 221101	3.4	21
109	Sub-diffraction-limit semiconductor resonators operating on the fundamental magnetic resonance. <i>Applied Physics Letters</i> , 2012 , 100, 131113	3.4	21
108	Intersubband electroluminescent devices operating in the strong-coupling regime. <i>Physical Review B</i> , 2010 , 82,	3.3	20
107	Vertical subwavelength mode confinement in terahertz and mid-infrared quantum cascade lasers. <i>Applied Physics Letters</i> , 2011 , 98, 101101	3.4	20
106	Threshold reduction in quantum cascade lasers with partially undoped, dual-wavelength interdigitated cascades. <i>Applied Physics Letters</i> , 2002 , 80, 2845-2847	3.4	19
105	THz quantum cascade lasers operating on the radiative modes of a 2D photonic crystal. <i>Optics Letters</i> , 2014 , 39, 3962-5	3	18
104	In situ generation of surface plasmon polaritons using a near-infrared laser diode. <i>Nano Letters</i> , 2012 , 12, 4693-7	11.5	18
103	Polaronic excitons in $Zn_xCd_{1-x}Se/ZnSe$ quantum wells. <i>Physical Review B</i> , 2000 , 61, 1700-1703	3.3	18
102	Ultrafast response of harmonic modelocked THz lasers. <i>Light: Science and Applications</i> , 2020 , 9, 51	16.7	17
101	Optimized surface-emitting photonic-crystal terahertz quantum cascade lasers with reduced resonator dimensions. <i>Applied Physics Letters</i> , 2010 , 97, 131101	3.4	17
100	Terahertz time domain spectroscopy of phonon-depopulation based quantum cascade lasers. <i>Applied Physics Letters</i> , 2009 , 94, 251108	3.4	17
99	Room-temperature intersubband emission of GaN/AlN quantum wells at ≈ 2.3 [μm]. <i>Electronics Letters</i> , 2006 , 42, 1308	1.1	17

98	Quantum tailoring of optical transitions in In _x Ga _{1-x} As/AlAs strained quantum wells. <i>Applied Physics Letters</i> , 1998 , 73, 2621-2623	3.4	17
97	Terahertz master-oscillator power-amplifier quantum cascade lasers. <i>Applied Physics Letters</i> , 2016 , 109, 231105	3.4	17
96	A hybrid plasmonic semiconductor laser. <i>Applied Physics Letters</i> , 2013 , 102, 101106	3.4	16
95	Low threshold THz QC lasers with thin core regions. <i>Electronics Letters</i> , 2007 , 43, 285	1.1	16
94	Millimeter wave photonics with terahertz semiconductor lasers. <i>Nature Communications</i> , 2021 , 12, 1427	17.4	16
93	Towards strong light-matter coupling at the single-resonator level with sub-wavelength mid-infrared nano-antennas. <i>Applied Physics Letters</i> , 2016 , 109, 021111	3.4	16
92	Mid-infrared intersubband polaritons in dispersive metal-insulator-metal resonators. <i>Applied Physics Letters</i> , 2014 , 105, 081105	3.4	15
91	Ultrafast terahertz detectors based on three-dimensional meta-atoms. <i>Optica</i> , 2017 , 4, 1451	8.6	15
90	Circuit-tunable sub-wavelength THz resonators: hybridizing optical cavities and loop antennas. <i>Optics Express</i> , 2014 , 22, 21302-12	3.3	15
89	III-nitride on silicon electrically injected microrings for nanophotonic circuits. <i>Optics Express</i> , 2019 , 27, 11800-11808	3.3	15
88	Fast amplitude modulation up to 1.5 GHz of mid-IR free-space beams at room-temperature. <i>Nature Communications</i> , 2021 , 12, 799	17.4	15
87	Advanced and reliable GaAs/AlGaAs ICP-DRIE etching for optoelectronic, microelectronic and microsystem applications. <i>Microelectronic Engineering</i> , 2018 , 202, 42-50	2.5	15
86	Perspectives for Intersubband Polariton Lasers. <i>Physical Review X</i> , 2015 , 5,	9.1	14
85	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	2.5	14
84	Terahertz electroluminescence from superlattice quantum cascade structures. <i>Journal of Applied Physics</i> , 2002 , 91, 3526-3529	2.5	14
83	Short infrared wavelength quantum cascade detectors based on m-plane ZnO/ZnMgO quantum wells. <i>Applied Physics Letters</i> , 2018 , 113, 251104	3.4	14
82	Strong coupling of ionizing transitions. <i>Optica</i> , 2019 , 6, 354	8.6	13
81	Quantum well infrared photo-detectors operating in the strong light-matter coupling regime. <i>Applied Physics Letters</i> , 2019 , 114, 131104	3.4	13

80	Injection of midinfrared surface plasmon polaritons with an integrated device. <i>Applied Physics Letters</i> , 2010 , 97, 211110	3-4	13
79	Polarized single-lobed surface emission in mid-infrared, photonic-crystal, quantum-cascade lasers. <i>Optics Letters</i> , 2010 , 35, 859-61	3	13
78	Monolithic echo-less photoconductive switches as a high-resolution detector for terahertz time-domain spectroscopy. <i>Applied Physics Letters</i> , 2017 , 110, 141102	3-4	12
77	Phase-locked arrays of surface-emitting graded-photonic-heterostructure terahertz semiconductor lasers. <i>Optics Express</i> , 2015 , 23, 6915-23	3-3	12
76	Immunity of intersubband polaritons to inhomogeneous broadening. <i>Physical Review B</i> , 2017 , 96,	3-3	12
75	Design of an integrated coupler for the electrical generation of surface plasmon polaritons. <i>Optics Express</i> , 2011 , 19, 18155-63	3-3	12
74	Nitride intersubband devices: prospects and recent developments. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 1987-1995	1.6	12
73	Loss and Gain Measurements of Tensile-Strained Quantum Well Diode Lasers for Plasmonic Devices at Telecom Wavelengths. <i>IEEE Journal of Quantum Electronics</i> , 2012 , 48, 73-78	2	11
72	High temperature, single mode, long infrared ($\approx 17.8 \mu\text{m}$) InAs-based quantum cascade lasers. <i>Applied Physics Letters</i> , 2014 , 105, 111118	3-4	11
71	Stable single-mode operation of surface-emitting terahertz lasers with graded photonic heterostructure resonators. <i>Applied Physics Letters</i> , 2013 , 102, 231105	3-4	11
70	Surface-emitting mid-infrared quantum cascade lasers with high-contrast photonic crystal resonators. <i>Optics Express</i> , 2010 , 18, 11979-89	3-3	11
69	Electrical modulation of the complex refractive index in mid-infrared quantum cascade lasers. <i>Optics Express</i> , 2012 , 20, 1172-83	3-3	11
68	Surface-plasmon distributed-feedback mid-infrared quantum cascade lasers based on hybrid plasmon/air-guided modes. <i>Electronics Letters</i> , 2008 , 44, 807	1.1	11
67	Demonstration of air-guided quantum cascade lasers without top claddings. <i>Optics Express</i> , 2007 , 15, 14861-9	3-3	11
66	Room temperature strong light-matter coupling in three dimensional terahertz meta-atoms. <i>Applied Physics Letters</i> , 2016 , 108, 101101	3-4	11
65	Hybrid electronic-photonic subwavelength cavities operating at terahertz frequencies. <i>Physical Review B</i> , 2013 , 87,	3-3	10
64	Low temperature near-field scanning optical microscopy on infrared and terahertz photonic-crystal quantum cascade lasers. <i>Applied Physics Letters</i> , 2011 , 98, 231112	3-4	10
63	Lasing mode pattern of a quantum cascade photonic crystal surface-emitting microcavity laser. <i>Applied Physics Letters</i> , 2004 , 84, 4164-4166	3-4	10

62	Excitons bound by photon exchange. <i>Nature Physics</i> , 2021 , 17, 31-35	16.2	10
61	Resonant intersubband polariton-LO phonon scattering in an optically pumped polaritonic device. <i>Applied Physics Letters</i> , 2018 , 112, 191106	3.4	10
60	Ultrafast Quantum-Well Photodetectors Operating at 10 THz with a Flat Frequency Response up to 70 GHz at Room Temperature. <i>ACS Photonics</i> , 2021 , 8, 464-471	6.3	10
59	Short-wave infrared (≈ 3 THz) intersubband polaritons in the GaN/AlN system. <i>Applied Physics Letters</i> , 2017 , 110, 131102	3.4	9
58	Echo-Less Photoconductive Antenna Sources for High-Resolution Terahertz Time-Domain Spectroscopy. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016 , 6, 20-25	3.4	9
57	Long-infrared InAs-based quantum cascade lasers operating at 291 K (≈ 19 THz) with metal-metal resonators. <i>Applied Physics Letters</i> , 2014 , 104, 021106	3.4	9
56	High order sideband generation in terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2013 , 102, 221101	3.4	9
55	Gigahertz modulation of tunable terahertz radiation from photomixers driven at telecom wavelengths. <i>Applied Physics Letters</i> , 2008 , 93, 131112	3.4	9
54	New developments for nitride unipolar devices at 1.3-1.5 THz wavelengths. <i>Superlattices and Microstructures</i> , 2006 , 40, 412-417	2.8	9
53	Minimal group refractive index dispersion and gain evolution in ultra-broad-band quantum cascade lasers. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1671-1673	2.2	9
52	Quantum-Cascade Lasers With Heterogeneous Cascades: Multiple- Wavelength Operation. <i>Optics and Photonics News</i> , 2001 , 12, 24	1.9	9
51	Demonstration of a fully integrated superconducting receiver with a 2.7 THz quantum cascade laser. <i>Optics Express</i> , 2015 , 23, 4453-8	3.3	8
50	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. <i>Optics Express</i> , 2016 , 24, 2174-82	3.3	8
49	Surface-plasmon distributed-feedback quantum cascade lasers operating pulsed, room temperature. <i>Applied Physics Letters</i> , 2009 , 95, 091105	3.4	8
48	Sub-wavelength energy concentration with electrically generated mid-infrared surface plasmons. <i>Optics Express</i> , 2012 , 20, 13738-47	3.3	8
47	Direct imaging of a laser mode via midinfrared near-field microscopy. <i>Applied Physics Letters</i> , 2007 , 90, 201114	3.4	8
46	Fabrication technologies for quantum cascade photonic-crystal microlasers. <i>Nanotechnology</i> , 2004 , 15, 675-681	3.4	8
45	Intersubband electroluminescence from long-side-cleaved quantum-cascade lasers above threshold: Investigation of phonon bottleneck effects. <i>Applied Physics Letters</i> , 2000 , 77, 3893-3895	3.4	8

- 44 Far-Infrared and Ultra-High-Speed Quantum-Cascade Lasers. *Optics and Photonics News*, **2001**, 12, 40 1.9 8
- 43 InAs monolayers and the controlled introduction of deep levels in AlGaAs alloys. *Applied Physics Letters*, **1996**, 68, 1534-1536 3.4 8
- 42 Continuous-wave operation of 2.7 THz photonic crystal quantum cascade lasers. *Electronics Letters*, **2010**, 46, 1513 1.1 7
- 41 Stark-tunable electroluminescence from cavity polariton states. *Applied Physics Letters*, **2008**, 93, 171105 3.4 7
- 40 Continuous wave operation of ~ 19 [micro sign]m surface-plasmon quantum cascade lasers. *Electronics Letters*, **2001**, 37, 1023 1.1 7
- 39 Giant optical nonlinearity interferences in quantum structures. *Science Advances*, **2019**, 5, eaaw7554 14.3 6
- 38 GaN/AlN quantum dot photodetectors at 1.3-1.5 [micro sign]m. *Superlattices and Microstructures*, **2006**, 40, 262-267 2.8 6
- 37 High-speed THz spectroscopic imaging at ten kilohertz pixel rate with amplitude and phase contrast. *Optics Express*, **2019**, 27, 10866-10872 3.3 6
- 36 Extraction-controlled terahertz frequency quantum cascade lasers with a diagonal LO-phonon extraction and injection stage. *Optics Express*, **2016**, 24, 28583-28593 3.3 6
- 35 Integrated quantum cascade laser-modulator using vertically coupled cavities. *Applied Physics Letters*, **2009**, 94, 211105 3.4 5
- 34 Proof-of-principle of surface detection with air-guided quantum cascade lasers. *Optics Express*, **2008**, 16, 6387-96 3.3 5
- 33 . *IEEE Journal of Selected Topics in Quantum Electronics*, **2006**, 12, 66-70 3.8 5
- 32 Optical Mode Control of Surface-Plasmon Quantum Cascade Lasers. *IEEE Photonics Technology Letters*, **2006**, 18, 2499-2501 2.2 5
- 31 Compact and sensitive heterodyne receiver at 2.7 THz exploiting a quasi-optical HEB-QCL coupling scheme. *Applied Physics Letters*, **2019**, 115, 231104 3.4 5
- 30 Pulsed operation of long-wavelength (~11.3 [micro sign]m) MOVPE-grown quantum cascade lasers up to 350 K. *Electronics Letters*, **2005**, 41, 1175 1.1 4
- 29 Acoustic-phonon-mediated polariton photoluminescence in a GaAs bulk microcavity. *Physical Review B*, **1999**, 59, 10059-10063 3.3 4
- 28 III-V on CaF: a possible waveguiding platform for mid-IR photonic devices. *Optics Express*, **2019**, 27, 1672-1682 3.6 4
- 27 Cavity-based photoconductive sources for real-time terahertz imaging. *Photonics Research*, **2020**, 8, 858 6 4

26	Realization of Harmonic Oscillator Arrays with Graded Semiconductor Quantum Wells. <i>Physical Review Letters</i> , 2020 , 125, 097403	7.4	4
25	Surface emitting thermally assisted polaritonic light-emitting device. <i>Applied Physics Letters</i> , 2017 , 110, 081108	3.4	3
24	Multi-Terahertz Sideband Generation on an Optical Telecom Carrier with a Quantum Cascade Laser. <i>ACS Photonics</i> , 2018 , 5, 890-896	6.3	3
23	Near-field analysis of metallic DFB lasers at telecom wavelengths. <i>Optics Express</i> , 2013 , 21, 10422-9	3.3	3
22	Intracavity near-field optical imaging of a mid-infrared quantum cascade laser mode. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 149, 270-274	3.1	3
21	Evidence of electronic confinement in pseudomorphic Si/GaAs superlattices. <i>Physical Review B</i> , 1998 , 57, R15100-R15103	3.3	3
20	Nanospectroscopy of a single patch antenna strongly coupled to a mid-infrared intersubband transition in a quantum well. <i>Applied Physics Letters</i> , 2020 , 117, 101104	3.4	3
19	Evidence of Intersubband Linewidth Narrowing Using Growth Interruption Technique. <i>Photonics</i> , 2019 , 6, 38	2.2	2
18	Monolithically integrated two-dimensional arrays of surface-emitting photonic-crystal terahertz lasers. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2013 , 34, 386-392	2.2	2
17	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser (Laser Photonics Rev. 11(4)/2017). <i>Laser and Photonics Reviews</i> , 2017 , 11, 1770042	8.3	2
16	Loss-reduction in midinfrared photonic crystal quantum cascade lasers using metallic waveguides. <i>Optical Engineering</i> , 2010 , 49, 111112	1.1	2
15	Femtosecond Broadband Frequency Switch of Terahertz Three-Dimensional Meta-Atoms. <i>ACS Photonics</i> , 2021 , 8, 1097-1102	6.3	2
14	A 5.7 THz GaN/AlGaIn quantum cascade detector based on polar step quantum wells. <i>Applied Physics Letters</i> , 2022 , 120, 171103	3.4	2
13	Phase-locking of surface-emitting THz quantum cascade laser arrays 2013 ,		1
12	Surface-plasmon distributed-feedback mid-infrared quantum cascade lasers based on hybrid plasmon/air-guided modes 2008 ,		1
11	Intraband photodetection at 1.3-1.5 μm in self-organized GaN/AlN quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3993-3997	1.3	1
10	Magnetic field effects in terahertz quantum-cascade lasers. <i>Semiconductor Science and Technology</i> , 2004 , 19, S348-S350	1.8	1
9	Laser Optics: Ultrabroadband Quantum Cascade Lasers. <i>Optics and Photonics News</i> , 2002 , 13, 23	1.9	1

- 8 A Janus double sided mid-IR photodetector based on a MIM architecture. *Applied Physics Letters*, **2021**, 119, 181102 3.4 1
- 7 Development of high-speed, patch-antenna intersubband photodetectors at 10.3 μm **2019**, 1 1
- 6 Quantum cascade photonic-crystal microlasers **2004**, 5365, 228 0
- 5 Unified Description of Saturation and Bistability of Intersubband Transitions in the Weak and Strong Light-Matter Coupling Regimes. *Physical Review Letters*, **2021**, 127, 187401 7.4 0
- 4 Intersubband polaritons at $\approx 2 \mu\text{m}$ in the InAs/AlSb system. *Applied Physics Letters*, **2018**, 112, 201113 3.4 0
- 3 Electrically Pumped Photonic Crystal Lasers: Laser Diodes and Quantum Cascade Lasers **2014**, 91-148
- 2 FIR quantum cascade lasers at and THz emitters at. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 13, 848-853 3
- 1 Quantum Cascade Lasers and Photonic Crystal Technology: Surface-Emitting Microlasers **2004**, FMK1