Alessandro Tredicucci

List of Publications by Year in Descending Order

229 papers	11,559 citations	49 h-index	103 g-index
308 ext. papers	13,434 ext. citations	5.5 avg, IF	5.66 L-index

#	Paper	IF	Citations
229	Micromechanical Bolometers for Subterahertz Detection at Room Temperature.. *ACS Photonics*, **2022**, 9, 360-367	6.3	4
228	Cryptographic Strain-Dependent Light Pattern Generators (Adv. Mater. Technol. 1/2022). *Advanced Materials Technologies*, **2022**, 7, 2270002	6.8	
227	Electron localization in periodically strained graphene. *Journal of Applied Physics*, **2022**, 131, 085103	2.5	1
226	Antenna-Coupled Graphene Field-Effect Transistors as a Terahertz Imaging Array. *IEEE Transactions on Terahertz Science and Technology*, **2021**, 11, 70-78	3.4	1
225	Detection of fungal infections in chestnuts: a terahertz imaging-based approach. *Food Control*, **2021**, 123, 107700	6.2	6
224	Physics and technology of Terahertz quantum cascade lasers. *Advances in Physics: X*, **2021**, 6, 1893809	5.1	8
223	Continuous wave vertical emission from terahertz microcavity lasers with a dual injection scheme. *Optics Express*, **2021**, 29, 33602-33614	3.3	
222	Chiral Dielectric Metasurfaces: Optomechanics of Chiral Dielectric Metasurfaces (Advanced Optical Materials 4/2020). *Advanced Optical Materials*, **2020**, 8, 2070016	8.1	1
221	Broadband Dynamic Polarization Conversion in Optomechanical Metasurfaces. *Frontiers in Physics*, **2020**, 7,	3.9	2
220	Highly resolved ultra-strong coupling between graphene plasmons and intersubband polaritons: publisher note. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, 392	1.7	
219	Highly resolved ultra-strong coupling between graphene plasmons and intersubband polaritons. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, 19	1.7	1
218	Optomechanics of Chiral Dielectric Metasurfaces. *Advanced Optical Materials*, **2020**, 8, 1901507	8.1	12
217	Stress-strain in electron-beam activated polymeric micro-actuators. *Journal of Applied Physics*, **2020**, 128, 115104	2.5	2
216	Leaf water diffusion dynamics in vivo through a sub-terahertz portable imaging system. *Journal of Physics: Conference Series*, **2020**, 1548, 012002	0.3	0
215	Microphotoluminescence (μPL) measurements of bidimensional materials in a custom-made setup. *Journal of Physics: Conference Series*, **2019**, 1226, 012008	0.3	
214	Line-defect photonic crystal terahertz quantum cascade laser. *Journal of Applied Physics*, **2019**, 126, 153104	2.5	1
213	THz Water Transmittance and Leaf Surface Area: An Effective Nondestructive Method for Determining Leaf Water Content. *Sensors*, **2019**, 19,	3.8	8

212	Local tuning of WS2 photoluminescence using polymeric micro-actuators in a monolithic van der Waals heterostructure. *Applied Physics Letters*, **2019**, 115, 183101	3.4	5
211	Optomechanical response with nanometer resolution in the self-mixing signal of a terahertz quantum cascade laser. *Optics Letters*, **2019**, 44, 5663-5666	3	3
210	Mid-infrared spectroscopic characterization of Pr3+:Lu2O3. *Optical Materials Express*, **2019**, 9, 4464	2.6	2
209	Photonic bands, superchirality, and inverse design of a chiral minimal metasurface. *Nanophotonics*, **2019**, 8, 2291-2301	6.3	9
208	An insight into the intermolecular vibrational modes of dicationic ionic liquids through far-infrared spectroscopy and DFT calculations.. *RSC Advances*, **2019**, 9, 30269-30276	3.7	5
207	Development of graphene-based ionizing radiation sensors. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2019**, 936, 666-668	1.2	0
206	Patterned tungsten disulfide/graphene heterostructures for efficient multifunctional optoelectronic devices. *Nanoscale*, **2018**, 10, 4332-4338	7.7	19
205	Symmetry enhanced non-reciprocal polarization rotation in a terahertz metal-graphene metasurface. *Optics Express*, **2018**, 26, 3328-3340	3.3	6
204	Understanding and overcoming fundamental limits of asymmetric light-light switches. *Optics Express*, **2018**, 26, 3618-3626	3.3	1
203	Room-Temperature High-Gain Long-Wavelength Photodetector via Optical–Electrical Controlling of Hot Carriers in Graphene. *Advanced Optical Materials*, **2018**, 6, 1800836	8.1	15
202	Controlling local deformation in graphene using micrometric polymeric actuators. *2D Materials*, **2018**, 5, 045032	5.9	11
201	Coherent absorption of light by graphene and other optically conducting surfaces in realistic on-substrate configurations. *APL Photonics*, **2017**, 2, 016101	5.2	11
200	Terahertz saturable absorbers from liquid phase exfoliation of graphite. *Nature Communications*, **2017**, 8, 15763	17.4	69
199	Continuous-wave laser operation of a dipole antenna terahertz microresonator. *Light: Science and Applications*, **2017**, 6, e17054	16.7	8
198	Coherent perfect absorption and transparency in lossy and loss/gain metasurface-embedding structures **2017**,		1
197	Mechanical oscillations in lasing microspheres. *Journal of Applied Physics*, **2017**, 122, 053101	2.5	4
196	Non-invasive absolute measurement of leaf water content using terahertz quantum cascade lasers. *Plant Methods*, **2017**, 13, 51	5.8	18
195	Hyperuniform disordered terahertz quantum cascade laser. *Scientific Reports*, **2016**, 6, 19325	4.9	32

194	Anisotropic straining of graphene using micropatterned SiN membranes. *APL Materials*, **2016**, 4, 116107	5.7	10
193	Saturable absorption of femtosecond optical pulses in multilayer turbostratic graphene. *Optics Express*, **2016**, 24, 15261-73	3.3	7
192	Universal lineshapes at the crossover between weak and strong critical coupling in Fano-resonant coupled oscillators. *Scientific Reports*, **2016**, 6, 24592	4.9	12
191	Thermal noise and optomechanical features in the emission of a membrane-coupled compound cavity laser diode. *Scientific Reports*, **2016**, 6, 31489	4.9	5
190	Ultrafast optical modulation of magneto-optical terahertz effects occurring in a graphene-loaded resonant metasurface **2016**,		1
189	Gate-Tunable Spatial Modulation of Localized Plasmon Resonances. *Nano Letters*, **2016**, 16, 5688-93	11.5	20
188	THz saturable absorption in turbostratic multilayer graphene on silicon carbide. *Optics Express*, **2015**, 23, 11632-40	3.3	19
187	Coherent perfect absorption in photonic structures. *Rendiconti Lincei*, **2015**, 26, 219-230	1.7	6
186	Strong opto-electro-mechanical coupling in a silicon photonic crystal cavity. *Optics Express*, **2015**, 23, 3196-208	3.3	40
185	Interferometric control of absorption in thin plasmonic metamaterials: general two port theory and broadband operation. *Optics Express*, **2015**, 23, 9202-10	3.3	19
184	THz quantum cascade lasers based on a hyperuniform design **2015**,		9
183	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. *Nanoscale*, **2015**, 7, 4598-810	7.7	2015
182	Tuning a microcavity-coupled terahertz laser. *Applied Physics Letters*, **2015**, 107, 261108	3.4	20
181	Magneto-optic transmittance modulation observed in a hybrid graphene□split ring resonator terahertz metasurface. *Applied Physics Letters*, **2015**, 107, 121104	3.4	35
180	Vertical coupling of laser glass microspheres to buried silicon nitride ellipses and waveguides. *Journal of Applied Physics*, **2015**, 118, 093103	2.5	1
179	Far-field characterization of the thermal dynamics in lasing microspheres. *Scientific Reports*, **2015**, 5, 14452	4.9	2
178	Black Phosphorus Terahertz Photodetectors. *Advanced Materials*, **2015**, 27, 5567-72	24	212
177	Saturation and bistability of defect-mode intersubband polaritons. *Physical Review B*, **2015**, 91,	3.3	9

176	Distributed feedback terahertz frequency quantum cascade lasers with dual periodicity gratings. *Applied Physics Letters*, **2015**, 106, 011103	3.4	15
175	Terahertz detection by epitaxial-graphene field-effect-transistors on silicon carbide. *Applied Physics Letters*, **2015**, 107, 131104	3.4	41
174	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2014**, 20, 130-138	3.8	101
173	Tubeless biochip for chemical stimulation of cells in closed-bioreactors: anti-cancer activity of the catechin□dextran conjugate. *RSC Advances*, **2014**, 4, 35017-35026	3.7	3
172	Mid-infrared intersubband polaritons in dispersive metal-insulator-metal resonators. *Applied Physics Letters*, **2014**, 105, 081105	3.4	15
171	Perfect energy-feeding into strongly coupled systems and interferometric control of polariton absorption. *Nature Physics*, **2014**, 10, 830-834	16.2	52
170	Terahertz probe of individual subwavelength objects in a water environment. *Laser and Photonics Reviews*, **2014**, 8, 734-742	8.3	7
169	Photonic bands and defect modes in metallo-dielectric photonic crystal slabs. *Journal of the Optical Society of America B: Optical Physics*, **2014**, 31, 1451	1.7	4
168	High performance bilayer-graphene terahertz detectors. *Applied Physics Letters*, **2014**, 104, 061111	3.4	124
167	Dynamical back-action at 5.5 GHz in a corrugated optomechanical beam. *AIP Advances*, **2014**, 4, 124601	1.5	14
166	Water-dispersible three-dimensional LC-nanoresonators. *PLoS ONE*, **2014**, 9, e105474	3.7	1
165	Terahertz photodetectors based on tapered semiconductor nanowires. *Applied Physics Letters*, **2014**, 105, 231112	3.4	13
164	Photonic quasi-crystal terahertz lasers. *Nature Communications*, **2014**, 5, 5884	17.4	47
163	Nanowire-based field effect transistors for terahertz detection and imaging systems. *Nanotechnology*, **2013**, 24, 214005	3.4	33
162	Electrical properties and band diagram of InSb-InAs nanowire type-III heterojunctions. *Journal of Applied Physics*, **2013**, 113, 104307	2.5	3
161	Nanometer size field effect transistors for terahertz detectors. *Nanotechnology*, **2013**, 24, 214002	3.4	70
160	Photocurrent-based detection of terahertz radiation in graphene. *Applied Physics Letters*, **2013**, 103, 211120	3.4	22
159	Sub-cycle switching of a photonic bandstructure via ultrastrong light-matter coupling. *EPJ Web of Conferences*, **2013**, 41, 09009	0.3	

158	**2013**,		1
157	Se-doping dependence of the transport properties in CBE-grown InAs nanowire field effect transistors. *Nanoscale Research Letters*, **2012**, 7, 159	5	24
156	Flexible, Low-loss Waveguide Designs for Efficient Coupling to Quantum Cascade Lasers in the Far-infrared. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2012**, 33, 319-326	2.2	6
155	Graphene field-effect transistors as room-temperature terahertz detectors. *Nature Materials*, **2012**, 11, 865-71	27	725
154	Coupling external cavity mid-IR quantum cascade lasers with low loss hollow metallic/dielectric waveguides. *Applied Physics B: Lasers and Optics*, **2012**, 108, 255-260	1.9	20
153	Phase-locking to a free-space terahertz comb for metrological-grade terahertz lasers. *Nature Communications*, **2012**, 3, 1040	17.4	68
152	Semiconductor nanowire field-effect transistors: towards high-frequency THz detectors **2012**,		1
151	Contacts shielding in nanowire field effect transistors. *Journal of Applied Physics*, **2012**, 111, 064301	2.5	5
150	Terahetz detection by heterostructed InAs/InSb nanowire based field effect transistors. *Applied Physics Letters*, **2012**, 101, 141103	3.4	23
149	Nonadiabatic switching of a photonic band structure: Ultrastrong light-matter coupling and slow-down of light. *Physical Review B*, **2012**, 85,	3.3	31
148	Quantum cascade laser: a compact, low cost, solid-state source for plasma diagnostics. *Journal of Instrumentation*, **2012**, 7, C02018-C02018	1	5
147	Quantum-limited frequency fluctuations in a terahertz laser. *Nature Photonics*, **2012**, 6, 525-528	33.9	110
146	Room-temperature terahertz detectors based on semiconductor nanowire field-effect transistors. *Nano Letters*, **2012**, 12, 96-101	11.5	145
145	Semiconductor nanowires for highly sensitive, room-temperature detection of terahertz quantum cascade laser emission. *Applied Physics Letters*, **2012**, 100, 241101	3.4	37
144	Non-equilibrium longitudinal and transverse optical phonons in terahertz quantum cascade lasers. *Applied Physics Letters*, **2012**, 100, 091101	3.4	22
143	Terahertz confocal microscopy with a quantum cascade laser source. *Optics Express*, **2012**, 20, 21924-31	3.3	42
142	Electron beam induced current in InSb-InAs nanowire type-III heterostructures. *Applied Physics Letters*, **2012**, 101, 063116	3.4	12
141	Ultrafast optical bleaching of intersubband cavity polaritons. *Physical Review B*, **2012**, 86,	3.3	17

140	Analysis of line shapes and strong coupling with intersubband transitions in one-dimensional metallodielectric photonic crystal slabs. *Physical Review B*, **2012**, 85,	3.3	13
139	High efficiency coupling of Terahertz micro-ring quantum cascade lasers to the low-loss optical modes of hollow metallic waveguides. *Optics Express*, **2011**, 19, 1122-30	3.3	21
138	. *IEEE Transactions on Terahertz Science and Technology*, **2011**, 1, 76-84	3.4	81
137	Guiding a terahertz quantum cascade laser into a flexible silver-coated waveguide. *Journal of Applied Physics*, **2011**, 110, 063112	2.5	17
136	One-dimensional surface-plasmon gratings for the excitation of intersubband polaritons in suspended membranes. *Solid State Communications*, **2011**, 151, 1725-1727	1.6	7
135	Photonic engineering of surface-emitting terahertz quantum cascade lasers. *Laser and Photonics Reviews*, **2011**, 5, n/a-n/a	8.3	8
134	Lasing in planar semiconductor diodes. *Applied Physics Letters*, **2011**, 99, 261110	3.4	2
133	InAs/InP/InSb Nanowires as Low Capacitance n Heterojunction Diodes. *Physical Review X*, **2011**, 1,	9.1	19
132	Switching ultrastrong light matter coupling on a subcycle scale. *Journal of Applied Physics*, **2011**, 109, 102418	2.5	7
131	Monolithic focal plane arrays for terahertz active spectroscopic imaging: an experimental study **2011**,		1
130	Quasi-periodic distributed feedback laser. *Nature Photonics*, **2010**, 4, 165-169	33.9	90
129	Submegahertz frequency stabilization of a terahertz quantum cascade laser to a molecular absorption line. *Applied Physics Letters*, **2010**, 96, 071112	3.4	41
128	Optical characterization of a superconducting hotspot air-bridge bolometer **2010**,		1
127	Intersubband polaritons in a one-dimensional surface plasmon photonic crystal. *Applied Physics Letters*, **2010**, 97, 231123	3.4	22
126	High-power surface emission from terahertz distributed feedback lasers with a dual-slit unit cell. *Applied Physics Letters*, **2010**, 96, 191109	3.4	40
125	Tuning a distributed feedback laser with a coupled microcavity. *Optics Express*, **2010**, 18, 19185-91	3.3	28
124	Using terahertz cascade lasers for determination of optical losses in active medium of silicon intracenter lasers **2010**,		1
123	Impact of nonequilibrium phonons on the electron dynamics in terahertz quantum cascade lasers. *Applied Physics Letters*, **2010**, 97, 033110	3.4	19

122	Towards Intersubband Polaritonics: How Fast Can Light and Electrons Mate? **2010**, 85-96		
121	Wide dynamic range terahertz detector pixel for active spectroscopic imaging with quantum cascade lasers. *Applied Physics Letters*, **2009**, 95, 213501	3.4	12
120	Sub-cycle switch-on of ultrastrong light-matter interaction. *Nature*, **2009**, 458, 178-81	50.4	384
119	Vertically emitting microdisk lasers. *Nature Photonics*, **2009**, 3, 46-49	33.9	92
118	Signatures of the ultrastrong light-matter coupling regime. *Physical Review B*, **2009**, 79,	3.3	219
117	Finite size effects in surface emitting Terahertz quantum cascade lasers. *Optics Express*, **2009**, 17, 6703-9	3.3	9
116	Distributed feedback ring resonators for vertically emitting terahertz quantum cascade lasers. *Optics Express*, **2009**, 17, 13031-9	3.3	21
115	Resonant tuning fork detector for THz radiation. *Optics Express*, **2009**, 17, 14069-74	3.3	13
114	Spectral behavior of a terahertz quantum-cascade laser. *Optics Express*, **2009**, 17, 20476-83	3.3	14
113	Differential near-field scanning optical microscopy with THz quantum cascade laser sources. *Optics Express*, **2009**, 17, 23785-92	3.3	10
112	Gain recovery dynamics of a terahertz quantum cascade laser. *Physical Review B*, **2009**, 80,	3.3	20
111	How fast electrons and photons mix: Sub-cycle switching of intersubband cavity polaritons. *Journal of Physics: Conference Series*, **2009**, 193, 012060	0.3	2
110	Femtosecond Formation of Ultrastrong Light-Matter Interaction. *Springer Series in Chemical Physics*, **2009**, 295-297	0.3	
109	Linewidth enhancement factor of terahertz quantum cascade lasers. *Applied Physics Letters*, **2008**, 92, 071106	3.4	65
108	Low cost thermopile detectors for THz imaging and sensing **2008**,		1
107	Progress towards a 2.5-THz solid state heterodyne receiver with quantum cascade laser and hot electron bolometric mixer **2008**,		1
106	Terahertz heterodyne receiver with quantum cascade laser and hot electron bolometer mixer in a pulse tube cooler. *Applied Physics Letters*, **2008**, 93, 141108	3.4	57
105	Laser Local Oscillators for Heterodyne Receivers beyond 2 Terahertz. *Frequenz*, **2008**, 62, 111-117	0.6	2

104	Tailoring light–matter interaction in intersubband microcavities. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1906-1908	3	
103	Terahertz quantum cascade lasers with quasi-periodic resonators. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 2176-2178	3	
102	THz quantum cascade designs for optimized injection. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 2207-2209	3	11
101	Controlling polariton coupling in intersubband microcavities. *Superlattices and Microstructures*, **2007**, 41, 308-312	2.8	3
100	Giant intersubband polariton splitting in InAs/AlSb microcavities. *Solid State Communications*, **2007**, 142, 311-313	1.6	7
99	Frequency Characterization of a Terahertz Quantum-Cascade Laser. *IEEE Transactions on Instrumentation and Measurement*, **2007**, 56, 262-265	5.2	8
98	Cavity polaritons from excited-subband transitions. *Applied Physics Letters*, **2007**, 91, 231118	3.4	22
97	Round-Robin Measurements of Linewidth Enhancement Factor of Semiconductor Lasers in COST 288 Action **2007**,		2
96	Antireflection Coating for External-Cavity Quantum Cascade Laser Near 5 THz. *Materials Research Society Symposia Proceedings*, **2007**, 1016, 1		1
95	Tunable terahertz quantum cascade lasers with an external cavity. *Applied Physics Letters*, **2007**, 91, 121104	3.4	64
94	Amplification of terahertz radiation in quantum cascade structures. *Journal of Applied Physics*, **2007**, 102, 063101	2.5	12
93	Molecular Spectroscopy with TeraHertz Quantum Cascade Lasers. *Journal of Nanoelectronics and Optoelectronics*, **2007**, 2, 101-107	1.3	13
92	Electronic and lattice temperatures in bound-to-continuum terahertz quantum cascade lasers **2006**,		1
91	Electron-lattice coupling in bound-to-continuum THz quantum-cascade lasers. *Applied Physics Letters*, **2006**, 88, 241109	3.4	30
90	High-resolution gas phase spectroscopy with a distributed feedback terahertz quantum cascade laser. *Applied Physics Letters*, **2006**, 89, 061115	3.4	109
89	Tunnel-assisted manipulation of intersubband polaritons in asymmetric coupled quantum wells. *Applied Physics Letters*, **2006**, 89, 171109	3.4	31
88	Surface plasmon photonic structures in terahertz quantum cascade lasers. *Optics Express*, **2006**, 14, 5335-45	3.5	47
87	Heterodyne receiver at 2.5 THz with quantum cascade laser and hot electron bolometric mixer **2006**, 6275, 132		1

86	Electrical control of polariton coupling in intersubband microcavities. *Applied Physics Letters*, **2005**, 87, 051105	3.4	59
85	Terahertz quantum cascade laser as local oscillator in a heterodyne receiver. *Optics Express*, **2005**, 13, 5890-6	3.3	120
84	High-performance operation of single-mode terahertz quantum cascade lasers with metallic gratings. *Applied Physics Letters*, **2005**, 87, 181101	3.4	60
83	Advances in THz quantum cascade lasers: fulfilling the application potential **2005**, 5738, 146		13
82	MBE growth of terahertz quantum cascade lasers. *Journal of Crystal Growth*, **2005**, 278, 756-764	1.6	28
81	Terahertz quantum cascade lasersfirst demonstration and novel concepts. *Semiconductor Science and Technology*, **2005**, 20, S222-S227	1.8	33
80	Quantum Cascade Lasers **2005**, 1-9		
79	Single-mode operation of terahertz quantum cascade lasers with distributed feedback resonators. *Applied Physics Letters*, **2004**, 84, 5446-5448	3.4	51
78	Terahertz quantum cascade lasers. *Physica E: Low-Dimensional Systems and Nanostructures*, **2004**, 21, 846-851	3	6
77	Terahertz quantum-cascade lasers based on an interlaced photon-phonon cascade. *Applied Physics Letters*, **2004**, 84, 1266-1268	3.4	48
76	Quantum cascade lasers emitting at lambda greater than 100 [micro sign]m. *Electronics Letters*, **2003**, 39, 1254	1.1	7
75	Microcavity polariton splitting of intersubband transitions. *Physical Review Letters*, **2003**, 90, 116401	7.4	177
74	Low-threshold quantum-cascade lasers at 3.5 THz (lambda = 85 microm). *Optics Letters*, **2003**, 28, 810-2	3	22
73	Continuous-wave operation of terahertz quantum-cascade lasers. *IEEE Journal of Quantum Electronics*, **2003**, 39, 586-591	2	21
72	Magnetic field in-plane quantization and tuning of population inversion in a THz superlattice quantum cascade laser. *Physical Review B*, **2003**, 68,	3.3	30
71	Physics. Marriage of two device concepts. *Science*, **2003**, 302, 1346-7	33.3	4
70	High-performance continuous-wave operation of superlattice terahertz quantum-cascade lasers. *Applied Physics Letters*, **2003**, 82, 1518-1520	3.4	48
69	Terahertz semiconductor-heterostructure laser. *Nature*, **2002**, 417, 156-9	50.4	1932

68	High-intensity interminiband terahertz emission from chirped superlattices. *Applied Physics Letters*, **2002**, 80, 1867-1869	3.4	34
67	Continuous wave operation of ~ 19 [micro sign]m surface-plasmon quantum cascade lasers. *Electronics Letters*, **2001**, 37, 1023	1.1	7
66	Novel quantum cascade devices for long wavelength IR emission. *Optical Materials*, **2001**, 17, 211-217	3.3	6
65	Quantum devices, MBE technology for the 21st century. *Journal of Crystal Growth*, **2001**, 227-228, 1-7	1.6	16
64	High-speed modulation and free-space optical audio/video transmission using quantum cascade lasers. *Electronics Letters*, **2001**, 37, 191	1.1	52
63	Temperature profile of GaInAs/AlInAs/InP quantum cascade-laser facets measured by microprobe photoluminescence. *Applied Physics Letters*, **2001**, 78, 2095-2097	3.4	52
62	High duty cycle operation of quantum cascade lasers based on graded superlattice active regions. *Journal of Applied Physics*, **2001**, 89, 7735-7738	2.5	3
61	Injectorless quantum-cascade lasers. *Applied Physics Letters*, **2001**, 78, 3950-3952	3.4	35
60	Quantum cascade lasers with double-quantum-well superlattices. *IEEE Photonics Technology Letters* , **2001**, 13, 278-280	2.2	5
59	Far-infrared surface-plasmon quantum-cascade lasers at 21.5 □h and 24 □h wavelengths. *Applied Physics Letters*, **2001**, 78, 2620-2622	3.4	160
58	Design and simulation of terahertz quantum cascade lasers. *Applied Physics Letters*, **2001**, 79, 3920-3922	3.4	81
57	Superlattice QC lasers towards the far-infrared **2001**, 101-114		
56	Electronic distribution in superlattice quantum cascade lasers. *Applied Physics Letters*, **2000**, 77, 1088-1090	3.4	24
55	High power and tunable single-mode quantum cascade lasers. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2000**, 75, 93-99	3.1	8
54	Mid-infrared tunable quantum cascade lasers for gas-sensing applications. *IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems*, **2000**, 16, 10-18		41
53	High temperature (T □425 K) pulsed operation of quantum cascade lasers. *Electronics Letters*, **2000**, 36, 723	1.1	16
52	Very long wavelength (? 16 [micro sign]m) whispering gallery mode microdisk lasers. *Electronics Letters*, **2000**, 36, 328	1.1	10
51	Single-mode tunable, pulsed, and continuous wave quantum-cascade distributed feedback lasers at □4.6□4.7 □h. *Applied Physics Letters*, **2000**, 76, 1092-1094	3.4	56

50	Single-mode surface-plasmon laser. *Applied Physics Letters*, **2000**, 76, 2164-2166	3.4	112
49	Intersubband electroluminescence from long-side-cleaved quantum-cascade lasers above threshold: Investigation of phonon bottleneck effects. *Applied Physics Letters*, **2000**, 77, 3893-3895	3.4	8
48	Surface plasmon quantum cascade lasers at □19 □m. *Applied Physics Letters*, **2000**, 77, 2286-2288	3.4	34
47	Continuous wave operation of long wavelength (? 11 [micro sign]m) inter-miniband lasers. *Electronics Letters*, **2000**, 36, 876	1.1	11
46	High-power, continuous-wave, current-tunable, single-mode quantum-cascade distributed-feedback lasers at lambda - 5.2 and lambda - 7.95 mum. *Optics Letters*, **2000**, 25, 230-2	3	20
45	New frontiers in quantum cascade lasers and applications. *IEEE Journal of Selected Topics in Quantum Electronics*, **2000**, 6, 931-947	3.8	126
44	High-performance quantum cascade lasers with electric-field-free undoped superlattice. *IEEE Photonics Technology Letters*, **2000**, 12, 260-262	2.2	8
43	Single-mode tunable quantum cascade lasers in the spectral range of the CO2 laser at /spl lambda/=9.5-10.5 □m. *IEEE Photonics Technology Letters*, **2000**, 12, 474-476	2.2	13
42	Bidirectional Semiconductor Laser. *Science*, **1999**, 286, 749-752	33.3	49
41	High-performance superlattice quantum cascade lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **1999**, 5, 792-807	3.8	54
40	Dependence of the device performance on the number of stages in quantum-cascade lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **1999**, 5, 808-816	3.8	68
39	Long wavelength superlattice quantum cascade lasers at □17 □m. *Applied Physics Letters*, **1999**, 74, 638-640	3.4	82
38	Improved CW operation of quantum cascade lasers with epitaxial-side heat-sinking. *IEEE Photonics Technology Letters*, **1999**, 11, 1369-1371	2.2	71
37	High Performance Quantum Cascade Lasers. *Optics and Photonics News*, **1999**, 10, 31	1.9	45
36	Superlattice quantum cascade lasers **1999**,		1
35	A multiwavelength semiconductor laser. *Nature*, **1998**, 396, 350-353	50.4	76
34	High-power continuous-wave quantum cascade lasers. *IEEE Journal of Quantum Electronics*, **1998**, 34, 336-343	2	97
33	Dual-wavelength emission from optically cascaded intersubband transitions. *Optics Letters*, **1998**, 23, 463-5	3	30

32	High performance interminiband quantum cascade lasers with graded superlattices. *Applied Physics Letters*, **1998**, 73, 2101-2103	3.4	125
31	High-power 8 Fh quantum cascade lasers with near optimum performance. *Applied Physics Letters*, **1998**, 72, 3130-3132	3.4	96
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