

# Raffaele Colombelli

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3133258/publications.pdf>

Version: 2024-02-01

196  
papers

5,431  
citations

126858

33  
h-index

95218

68  
g-index

199  
all docs

199  
docs citations

199  
times ranked

3479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrastrong Light-Matter Coupling Regime with Polariton Dots. <i>Physical Review Letters</i> , 2010, 105, 196402.	2.9	358
2	Electrically pumped photonic-crystal terahertz lasers controlled by boundary conditions. <i>Nature</i> , 2009, 457, 174-178.	13.7	334
3	Quantum Cascade Surface-Emitting Photonic Crystal Laser. <i>Science</i> , 2003, 302, 1374-1377.	6.0	317
4	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.	1.0	265
5	Ultra-broadband semiconductor laser. <i>Nature</i> , 2002, 415, 883-887.	13.7	246
6	Far-infrared surface-plasmon quantum-cascade lasers at 21.5 $\mu\text{m}$ and 24 $\mu\text{m}$ wavelengths. <i>Applied Physics Letters</i> , 2001, 78, 2620-2622.	1.5	193
7	Strong Light-Matter Coupling in Subwavelength Metal-Dielectric Microcavities at Terahertz Frequencies. <i>Physical Review Letters</i> , 2009, 102, 186402.	2.9	171
8	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
9	Optical properties of metal-dielectric-metal microcavities in the THz frequency range. <i>Optics Express</i> , 2010, 18, 13886.	1.7	156
10	Efficient power extraction in surface-emitting semiconductor lasers using graded photonic heterostructures. <i>Nature Communications</i> , 2012, 3, 952.	5.8	120
11	Wave engineering with THz quantum cascade lasers. <i>Nature Photonics</i> , 2013, 7, 691-701.	15.6	118
12	Resonant Second-Order Nonlinear Optical Processes in Quantum Cascade Lasers. <i>Physical Review Letters</i> , 2003, 90, 043902.	2.9	105
13	Quantum cascade lasers with double metal-semiconductor waveguide resonators. <i>Applied Physics Letters</i> , 2002, 80, 3060-3062.	1.5	104
14	Single-mode, tunable distributed-feedback and multiple-wavelength quantum cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , 2002, 38, 569-581.	1.0	90
15	Design of mid-IR and THz quantum cascade laser cavities with complete TM photonic bandgap. <i>Optics Express</i> , 2007, 15, 5948.	1.7	90
16	Terahertz intersubband absorption in GaN/AlGaIn step quantum wells. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	87
17	Electrically Injected Cavity Polaritons. <i>Physical Review Letters</i> , 2008, 100, 136806.	2.9	71
18	Perfect energy-feeding into strongly coupled systems and interferometric control of polariton absorption. <i>Nature Physics</i> , 2014, 10, 830-834.	6.5	71

#	ARTICLE	IF	CITATIONS
19	Antenna-coupled microcavities for enhanced infrared photo-detection. Applied Physics Letters, 2014, 104, .	1.5	68
20	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser. Laser and Photonics Reviews, 2017, 11, 1700013.	4.4	67
21	Limiting Factors to the Temperature Performance of THz Quantum Cascade Lasers Based on the Resonant-Phonon Depopulation Scheme. IEEE Transactions on Terahertz Science and Technology, 2012, 2, 83-92.	2.0	59
22	Quantum cascade intersubband polariton light emitters. Semiconductor Science and Technology, 2005, 20, 985-990.	1.0	54
23	High-speed operation of GaN/AlGaIn quantum cascade detectors at $\lambda = 1.55 \mu\text{m}$ . Applied Physics Letters, 2008, 93, .	1.5	52
24	Generating ultrafast pulses of light from quantum cascade lasers. Optica, 2015, 2, 944.	4.8	52
25	Intersubband absorption of cubic GaN/Al(Ga)N quantum wells in the near-infrared to terahertz spectral range. Physical Review B, 2011, 83, .	1.1	50
26	Semiconductor Surface Plasmon Sources. Physical Review Letters, 2010, 104, 226806.	2.9	49
27	Coupling of a surface plasmon with localized subwavelength microcavity modes. Applied Physics Letters, 2011, 98, .	1.5	49
28	Graded photonic crystal terahertz quantum cascade lasers. Applied Physics Letters, 2010, 96, .	1.5	44
29	Ultrafast response of harmonic modelocked THz lasers. Light: Science and Applications, 2020, 9, 51.	7.7	42
30	GaN-based quantum dot infrared photodetector operating at $1.38 \mu\text{m}$ . Electronics Letters, 2005, 41, 1077.	0.5	39
31	Intraband absorption of doped GaN/AlN quantum dots at telecommunication wavelengths. Applied Physics Letters, 2005, 87, 101912.	1.5	39
32	Optical critical coupling into highly confining metal-insulator-metal resonators. Applied Physics Letters, 2013, 103, .	1.5	38
33	Terahertz microcavity lasers with subwavelength mode volumes and thresholds in the milliwatt range. Applied Physics Letters, 2007, 90, 091113.	1.5	37
34	Fast amplitude modulation up to 1.5 GHz of mid-IR free-space beams at room-temperature. Nature Communications, 2021, 12, 799.	5.8	35
35	Photovoltaic probe of cavity polaritons in a quantum cascade structure. Applied Physics Letters, 2007, 90, 201101.	1.5	32
36	Ultrafast Quantum-Well Photodetectors Operating at $10 \mu\text{m}$ with a Flat Frequency Response up to 70 GHz at Room Temperature. ACS Photonics, 2021, 8, 464-471.	3.2	32

#	ARTICLE	IF	CITATIONS
37	Millimeter wave photonics with terahertz semiconductor lasers. Nature Communications, 2021, 12, 1427.	5.8	31
38	Predictable surface emission patterns in terahertz photonic-crystal quantum cascade lasers. Optics Express, 2009, 17, 9491.	1.7	30
39	Perspectives for Intersubband Polariton Lasers. Physical Review X, 2015, 5, .	2.8	29
40	Resonant second harmonic generation in ZnSe bulk microcavity. Applied Physics Letters, 1999, 74, 1945-1947.	1.5	26
41	Terahertz quantum cascade lasers in a magnetic field. Applied Physics Letters, 2003, 83, 3873-3875.	1.5	26
42	A semiconductor laser device for the generation of surface-plasmons upon electrical injection. Optics Express, 2009, 17, 9391.	1.7	26
43	Threshold reduction in quantum cascade lasers with partially undoped, dual-wavelength interdigitated cascades. Applied Physics Letters, 2002, 80, 2845-2847.	1.5	25
44	Intersubband electroluminescent devices operating in the strong-coupling regime. Physical Review B, 2010, 82, .	1.1	25
45	Sub-diffraction-limit semiconductor resonators operating on the fundamental magnetic resonance. Applied Physics Letters, 2012, 100, .	1.5	25
46	Subwavelength metallic waveguides as a tool for extreme confinement of THz surface waves. Scientific Reports, 2013, 3, 1369.	1.6	25
47	Surface-emitting terahertz quantum cascade lasers with continuous-wave power in the tens of milliwatt range. Applied Physics Letters, 2014, 104, 091112.	1.5	25
48	Quantum well infrared photo-detectors operating in the strong light-matter coupling regime. Applied Physics Letters, 2019, 114, .	1.5	25
49	Excitons bound by photon exchange. Nature Physics, 2021, 17, 31-35.	6.5	25
50	Conduction-band offset of single InAs monolayers on GaAs. Applied Physics Letters, 2000, 76, 1146-1148.	1.5	24
51	Room-temperature operation of $\lambda = 7.5 \mu\text{m}$ surface-plasmon quantum cascade lasers. Applied Physics Letters, 2006, 88, 181103.	1.5	24
52	Terahertz time domain spectroscopy of phonon-depopulation based quantum cascade lasers. Applied Physics Letters, 2009, 94, 251108.	1.5	24
53	Surface-emitting quantum cascade lasers with metallic photonic-crystal resonators. Applied Physics Letters, 2009, 94, 221101.	1.5	24
54	Short infrared wavelength quantum cascade detectors based on m-plane ZnO/ZnMgO quantum wells. Applied Physics Letters, 2018, 113, .	1.5	24

#	ARTICLE	IF	CITATIONS
55	Mid-infrared intersubband polaritons in dispersive metal-insulator-metal resonators. Applied Physics Letters, 2014, 105, .	1.5	23
56	Room-temperature intersubband emission of GaN/AlN quantum wells at $\lambda = 2.3 \mu\text{m}$ . Electronics Letters, 2006, 42, 1308.	0.5	22
57	Vertical subwavelength mode confinement in terahertz and mid-infrared quantum cascade lasers. Applied Physics Letters, 2011, 98, .	1.5	22
58	Circuit-tunable sub-wavelength THz resonators: hybridizing optical cavities and loop antennas. Optics Express, 2014, 22, 21302.	1.7	21
59	THz quantum cascade lasers operating on the radiative modes of a 2D photonic crystal. Optics Letters, 2014, 39, 3962.	1.7	21
60	Towards strong light-matter coupling at the single-resonator level with sub-wavelength mid-infrared nano-antennas. Applied Physics Letters, 2016, 109, .	1.5	21
61	Strong coupling of ionizing transitions. Optica, 2019, 6, 354.	4.8	21
62	Ultrafast terahertz detectors based on three-dimensional meta-atoms. Optica, 2017, 4, 1451.	4.8	20
63	III-nitride on silicon electrically injected microrings for nanophotonic circuits. Optics Express, 2019, 27, 11800.	1.7	20
64	Quantum tailoring of optical transitions in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{AlAs}$ strained quantum wells. Applied Physics Letters, 1998, 73, 2621-2623.	1.5	19
65	Polaronic excitons in $\text{Zn}_x\text{Cd}_{1-x}\text{Se}/\text{ZnSe}$ quantum wells. Physical Review B, 2000, 61, 1700-1703.	1.1	19
66	Low threshold THz QC lasers with thin core regions. Electronics Letters, 2007, 43, 285.	0.5	19
67	In Situ Generation of Surface Plasmon Polaritons Using a Near-Infrared Laser Diode. Nano Letters, 2012, 12, 4693-4697.	4.5	19
68	Terahertz master-oscillator power-amplifier quantum cascade lasers. Applied Physics Letters, 2016, 109, .	1.5	19
69	Advanced and reliable GaAs/AlGaAs ICP-DRIE etching for optoelectronic, microelectronic and microsystem applications. Microelectronic Engineering, 2018, 202, 42-50.	1.1	19
70	A hybrid plasmonic semiconductor laser. Applied Physics Letters, 2013, 102, .	1.5	18
71	Monolithic echo-less photoconductive switches as a high-resolution detector for terahertz time-domain spectroscopy. Applied Physics Letters, 2017, 110, .	1.5	18
72	Terahertz electroluminescence from superlattice quantum cascade structures. Journal of Applied Physics, 2002, 91, 3526-3529.	1.1	17

#	ARTICLE	IF	CITATIONS
73	Optimized surface-emitting photonic-crystal terahertz quantum cascade lasers with reduced resonator dimensions. Applied Physics Letters, 2010, 97, 131101.	1.5	17
74	Room temperature strong light-matter coupling in three dimensional terahertz meta-atoms. Applied Physics Letters, 2016, 108, .	1.5	17
75	Resonant intersubband polariton-LO phonon scattering in an optically pumped polaritonic device. Applied Physics Letters, 2018, 112, .	1.5	17
76	Injection of midinfrared surface plasmon polaritons with an integrated device. Applied Physics Letters, 2010, 97, .	1.5	16
77	Polarized single-lobed surface emission in mid-infrared, photonic-crystal, quantum-cascade lasers. Optics Letters, 2010, 35, 859.	1.7	16
78	High order sideband generation in terahertz quantum cascade lasers. Applied Physics Letters, 2013, 102, .	1.5	16
79	Echo-Less Photoconductive Antenna Sources for High-Resolution Terahertz Time-Domain Spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 20-25.	2.0	16
80	Immunity of intersubband polaritons to inhomogeneous broadening. Physical Review B, 2017, 96, .	1.1	15
81	Realization of Harmonic Oscillator Arrays with Graded Semiconductor Quantum Wells. Physical Review Letters, 2020, 125, 097403.	2.9	15
82	Nitride intersubband devices: prospects and recent developments. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1987-1995.	0.8	14
83	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
84	Surface-emitting mid-infrared quantum cascade lasers with high-contrast photonic crystal resonators. Optics Express, 2010, 18, 11979.	1.7	14
85	Design of an integrated coupler for the electrical generation of surface plasmon polaritons. Optics Express, 2011, 19, 18155.	1.7	14
86	High temperature, single mode, long infrared ( $\lambda = 17.8 \mu\text{m}$ ) InAs-based quantum cascade lasers. Applied Physics Letters, 2014, 105, 111118.	1.5	14
87	Phase-locked arrays of surface-emitting graded-photonic-heterostructure terahertz semiconductor lasers. Optics Express, 2015, 23, 6915.	1.7	14
88	Intersubband Polariton-Polariton Scattering in a Dispersive Microcavity. Physical Review Letters, 2022, 128, .	2.9	14
89	Lasing mode pattern of a quantum cascade photonic crystal surface-emitting microcavity laser. Applied Physics Letters, 2004, 84, 4164-4166.	1.5	13
90	Low temperature near-field scanning optical microscopy on infrared and terahertz photonic-crystal quantum cascade lasers. Applied Physics Letters, 2011, 98, .	1.5	13

#	ARTICLE	IF	CITATIONS
91	Electrical modulation of the complex refractive index in mid-infrared quantum cascade lasers. Optics Express, 2012, 20, 1172.	1.7	13
92	Long-infrared InAs-based quantum cascade lasers operating at 291 K ( $\lambda = 19 \mu\text{m}$ ) with metal-metal resonators. Applied Physics Letters, 2014, 104, 021106.	1.5	13
93	Nanospectroscopy of a single patch antenna strongly coupled to a mid-infrared intersubband transition in a quantum well. Applied Physics Letters, 2020, 117, .	1.5	13
94	Demonstration of air-guided quantum cascade lasers without top claddings. Optics Express, 2007, 15, 14861.	1.7	12
95	Surface-plasmon distributed-feedback mid-infrared quantum cascade lasers based on hybrid plasmon/air-guided modes. Electronics Letters, 2008, 44, 807.	0.5	12
96	Loss and Gain Measurements of Tensile-Strained Quantum Well Diode Lasers for Plasmonic Devices at Telecom Wavelengths. IEEE Journal of Quantum Electronics, 2012, 48, 73-78.	1.0	12
97	Short-wave infrared ( $\lambda = 3 \mu\text{m}$ ) intersubband polaritons in the GaN/AlN system. Applied Physics Letters, 2017, 110, .	1.5	12
98	Quantum-Cascade Lasers With Heterogeneous Cascades: Multiple- Wavelength Operation. Optics and Photonics News, 2001, 12, 24.	0.4	11
99	Minimal group refractive index dispersion and gain evolution in ultra-broad-band quantum cascade lasers. IEEE Photonics Technology Letters, 2002, 14, 1671-1673.	1.3	11
100	Direct imaging of a laser mode via midinfrared near-field microscopy. Applied Physics Letters, 2007, 90, 201114.	1.5	11
101	Stark-tunable electroluminescence from cavity polariton states. Applied Physics Letters, 2008, 93, 171105.	1.5	11
102	Hybrid electronic-photonic subwavelength cavities operating at terahertz frequencies. Physical Review B, 2013, 87, .	1.1	11
103	Stable single-mode operation of surface-emitting terahertz lasers with graded photonic heterostructure resonators. Applied Physics Letters, 2013, 102, 231105.	1.5	11
104	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. Optics Express, 2016, 24, 2174.	1.7	11
105	High-speed THz spectroscopic imaging at ten kilohertz pixel rate with amplitude and phase contrast. Optics Express, 2019, 27, 10866.	1.7	11
106	Cavity-based photoconductive sources for real-time terahertz imaging. Photonics Research, 2020, 8, 858.	3.4	11
107	Unified Description of Saturation and Bistability of Intersubband Transitions in the Weak and Strong Light-Matter Coupling Regimes. Physical Review Letters, 2021, 127, 187401.	2.9	11
108	Intersubband electroluminescence from long-side-cleaved quantum-cascade lasers above threshold: Investigation of phonon bottleneck effects. Applied Physics Letters, 2000, 77, 3893-3895.	1.5	10

#	ARTICLE	IF	CITATIONS
109	Gigahertz modulation of tunable terahertz radiation from photomixers driven at telecom wavelengths. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	10
110	Surface-plasmon distributed-feedback quantum cascade lasers operating pulsed, room temperature. <i>Applied Physics Letters</i> , 2009, 95, 091105.	1.5	10
111	Extraction-controlled terahertz frequency quantum cascade lasers with a diagonal LO-phonon extraction and injection stage. <i>Optics Express</i> , 2016, 24, 28583.	1.7	10
112	Giant optical nonlinearity interferences in quantum structures. <i>Science Advances</i> , 2019, 5, eaaw7554.	4.7	10
113	Far-Infrared and Ultra-High-Speed Quantum-Cascade Lasers. <i>Optics and Photonics News</i> , 2001, 12, 40.	0.4	9
114	Fabrication technologies for quantum cascade photonic-crystal microlasers. <i>Nanotechnology</i> , 2004, 15, 675-681.	1.3	9
115	New developments for nitride unipolar devices at 1.3–1.5 $\mu\text{m}$ wavelengths. <i>Superlattices and Microstructures</i> , 2006, 40, 412-417.	1.4	9
116	Demonstration of a fully integrated superconducting receiver with a 27 THz quantum cascade laser. <i>Optics Express</i> , 2015, 23, 4453.	1.7	9
117	Direct Polariton-To-Electron Tunneling in Quantum Cascade Detectors Operating in the Strong Light-Matter Coupling Regime. <i>Physical Review Applied</i> , 2022, 17, .	1.5	9
118	InAs monolayers and the controlled introduction of deep levels in AlGaAs alloys. <i>Applied Physics Letters</i> , 1996, 68, 1534-1536.	1.5	8
119	GaN/AlN quantum dot photodetectors at 1.3–1.5 $\mu\text{m}$ . <i>Superlattices and Microstructures</i> , 2006, 40, 262-267.	1.4	8
120	Continuous-wave operation of 2.7–...THz photonic crystal quantum cascade lasers. <i>Electronics Letters</i> , 2010, 46, 1513.	0.5	8
121	Sub-wavelength energy concentration with electrically generated mid-infrared surface plasmons. <i>Optics Express</i> , 2012, 20, 13738.	1.7	8
122	Continuous wave operation of ~ 19 $\mu\text{m}$ surface-plasmon quantum cascade lasers. <i>Electronics Letters</i> , 2001, 37, 1023.	0.5	7
123	Proof-of-principle of surface detection with air-guided quantum cascade lasers. <i>Optics Express</i> , 2008, 16, 6387.	1.7	7
124	Femtosecond Broadband Frequency Switch of Terahertz Three-Dimensional Meta-Atoms. <i>ACS Photonics</i> , 2021, 8, 1097-1102.	3.2	7
125	III-V on CaF <sub>2</sub> : a possible waveguiding platform for mid-IR photonic devices. <i>Optics Express</i> , 2019, 27, 1672.	1.7	7
126	Surface-plasmon quantum cascade microlasers with highly deformed resonators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006, 12, 66-70.	1.9	6



#	ARTICLE	IF	CITATIONS
127	Integrated quantum cascade laser-modulator using vertically coupled cavities. Applied Physics Letters, 2009, 94, 211105.	1.5	6
128	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser (Laser Photonics Rev. 11(4)/2017). Laser and Photonics Reviews, 2017, 11, 1770042.	4.4	6
129	Compact and sensitive heterodyne receiver at 2.7 THz exploiting a quasi-optical HEB-QCL coupling scheme. Applied Physics Letters, 2019, 115, .	1.5	6
130	Acoustic-phonon-mediated polariton photoluminescence in a GaAs bulk microcavity. Physical Review B, 1999, 59, 10059-10063.	1.1	5
131	Optical Mode Control of Surface-Plasmon Quantum Cascade Lasers. IEEE Photonics Technology Letters, 2006, 18, 2499-2501.	1.3	5
132	Magnetic field effects in terahertz quantum-cascade lasers. Semiconductor Science and Technology, 2004, 19, S348-S350.	1.0	4
133	Pulsed operation of long-wavelength (1.3 μm) MOVPE-grown quantum cascade lasers up to 350 K. Electronics Letters, 2005, 41, 1175.	0.5	4
134	Near-field analysis of metallic DFB lasers at telecom wavelengths. Optics Express, 2013, 21, 10422.	1.7	4
135	Surface emitting thermally assisted polaritonic light-emitting device. Applied Physics Letters, 2017, 110, .	1.5	4
136	Multi-Terahertz Sideband Generation on an Optical Telecom Carrier with a Quantum Cascade Laser. ACS Photonics, 2018, 5, 890-896.	3.2	4
137	A 5.7 THz GaN/AlGaIn quantum cascade detector based on polar step quantum wells. Applied Physics Letters, 2022, 120, .	1.5	4
138	Evidence of electronic confinement in pseudomorphic Si/GaAs superlattices. Physical Review B, 1998, 57, R15100-R15103.	1.1	3
139	Intracavity near-field optical imaging of a mid-infrared quantum cascade laser mode. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 149, 270-274.	1.7	3
140	Intersubband polaritons at $\Gamma_4$ in the InAs/AlSb system. Applied Physics Letters, 2018, 112, .	1.5	3
141	Evidence of Intersubband Linewidth Narrowing Using Growth Interruption Technique. Photonics, 2019, 6, 38.	0.9	3
142	Quantum cascade photonic-crystal microlasers. , 2004, 5365, 228.		2
143	Loss-reduction in midinfrared photonic crystal quantum cascade lasers using metallic waveguides. Optical Engineering, 2010, 49, 111112.	0.5	2
144	Monolithically integrated two-dimensional arrays of surface-emitting photonic-crystal terahertz lasers. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 386-392.	1.2	2

#	ARTICLE	IF	CITATIONS
145	Development of high-speed, patch-antenna intersubband photodetectors at $10.3\hat{1}/4m$ . , 2019, , .		2
146	A "Janus" double sided mid-IR photodetector based on a MIM architecture. Applied Physics Letters, 2021, 119, 181102.	1.5	2
147	Laser Optics: Ultrabroadband Quantum Cascade Lasers. Optics and Photonics News, 2002, 13, 23.	0.4	1
148	Intraband photodetection at $1.3\hat{1}1.5 \hat{A}\mu m$ in self-organized GaN/AlN quantum dots. Physica Status Solidi (B): Basic Research, 2006, 243, 3993-3997.	0.7	1
149	Surface-plasmon distributed-feedback mid-infrared quantum cascade lasers based on hybrid plasmon/air-guided modes. , 2008, , .		1
150	Photonic Crystal THz Lasers with Controllable Surface Emission Patterns. Optics and Photonics News, 2009, 20, 37.	0.4	1
151	Phase-locking of surface-emitting THz quantum cascade laser arrays. Proceedings of SPIE, 2013, , .	0.8	1
152	Sub-wavelength THz resonators for ultra-fast THz detection. , 2017, , .		1
153	Perspectives for intersubband polariton lasers. , 2015, , .		1
154	Quantum cascade lasers and metal waveguides at $\hat{1} > 20 \hat{1}/4m$ . , 2002, , .		0
155	FIR quantum cascade lasers at and THz emitters at. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 848-853.	1.3	0
156	Quantum Cascade Lasers and Photonic Crystal Technology: Surface-Emitting Microlasers. , 2004, , FMK1.		0
157	Electrical injection of intersubband polaritons. , 2009, , .		0
158	Low temperature near-field scanning optical microscopy of IR and THz surface-plasmon quantum cascade lasers. , 2010, , .		0
159	Gain studies of phonon-depopulation based terahertz quantum cascade lasers using terahertz time domain spectroscopy. , 2010, , .		0
160	Plasmonic waveguides for active semiconductor devices at telecom wavelengths using transverse-magnetic-polarized diode lasers. , 2011, , .		0
161	Vertical Sub-Wavelength Mode Confinement in THz Quantum Cascade Lasers. , 2011, , .		0
162	Near-field microscopy study of propagation and focusing of designer's surface plasmons polaritons at mid-infrared wavelength. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
163	Photonic heterostructures: A new concept for high power surface emission in THz quantum cascade lasers. , 2011, , .		0
164	High power extraction in (THz) surface-emitting lasers using type-II photonic heterostructures. , 2012, , .		0
165	Extreme confinement of THz surface waves by subwavelength metallic waveguides. , 2013, , .		0
166	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. , 2016, , .		0
167	Nonlinear frequency mixing in quantum cascade lasers: Towards broadband wavelength shifting and THz up-conversion. , 2016, , .		0
168	Short pulse generation and dispersion in THz quantum cascade lasers. , 2016, , .		0
169	Echo-less photoconductive antenna sources for high-resolution terahertz time-domain spectroscopy. , 2016, , .		0
170	Monolithic echo-less photoconductive switches for high-resolution terahertz time-domain spectroscopy. , 2017, , .		0
171	Cavity based THz photoconductive switch: towards high average power. , 2019, , .		0
172	Cavity-mediated bound excitons. , 2019, , .		0
173	Self-Starting Harmonic Emission and Active Harmonic Modelocking in THz QCLs. , 2019, , .		0
174	Nano-IR study of light-matter interaction between intersubband transitions in quantum wells and patch antenna resonators by polymer expansion. , 2021, , .		0
175	Oservation of bound excitons stabilised by the interaction with a photonic resonator. , 2021, , .		0
176	Mid-infrared nano-imaging of current patterns in patch antenna resonators. , 2021, , .		0
177	Enhanced light-matter coupling and optical pumping of THz intersubband polaritons. , 2021, , .		0
178	Millimeter Wave Photonics with Terahertz Semiconductor Lasers. , 2021, , .		0
179	Detection of strong light-matter interaction at the nano-scale in concealed optical cavities via a thermal transducer. , 2021, , .		0
180	Quantum Cascade Photonic Crystal Microlasers for "Intra-Cavity" Mid-IR Spectroscopy of Biomolecules on a Chip. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
181	Surface emitting photonic crystal mid-infrared quantum cascade lasers. , 2009, , .		0
182	Low divergence, single-lobed, surface emission from THz photonic-crystal quantum cascade lasers. , 2009, , .		0
183	Terahertz time domain spectroscopy of phonondepoulation based quantum cascade lasers. , 2010, , .		0
184	A semiconductor device for surface-plasmon generation. , 2010, , .		0
185	Microcavity Enhanced Quantum Well Infrared Photodetector. , 2013, , .		0
186	Long-infrared InAs-based quantum cascade lasers. , 2015, , .		0
187	Echo-less Photoconductive Antenna sources for High-resolution Terahertz Time-domain Spectroscopy. , 2016, , .		0
188	Terahertz pulse generation from metal-metal quantum cascade lasers. , 2016, , .		0
189	Terahertz Meta-Atom Quantum Well Photodetectors. , 2016, , .		0
190	Towards strong light-matter coupling at the single-resonator level with sub-wavelength mid-infrared antennas. , 2016, , .		0
191	Intersubband polaritons are robust against inhomogeneous broadening induced by multiple quantum wells. , 2018, , .		0
192	Active Based-Metasurfaces for Mid-Infrared Optoelectronics Devices. , 2018, , .		0
193	Short infrared wavelength quantum cascade detectors based on non-polar ZnO/ZnMgO quantum wells. , 2019, , .		0
194	Ultrafast response of Harmonic Modelocked THz Lasers. , 2020, , .		0
195	Near-field study of the strong coupling between intersubband transitions in quantum wells and single patch antenna resonators in the mid-infrared. , 2020, , .		0
196	Giant optical nonlinearity interferences in Terahertz quantum structures. , 2020, , .		0