Alessandro Tredicucci

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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	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
228	Terahertz semiconductor-heterostructure laser. <i>Nature</i> , 2002 , 417, 156-9	50.4	1932
227	Graphene field-effect transistors as room-temperature terahertz detectors. <i>Nature Materials</i> , 2012 , 11, 865-71	27	725
226	Sub-cycle switch-on of ultrastrong light-matter interaction. <i>Nature</i> , 2009 , 458, 178-81	50.4	384
225	Signatures of the ultrastrong light-matter coupling regime. <i>Physical Review B</i> , 2009 , 79,	3.3	219
224	Black Phosphorus Terahertz Photodetectors. <i>Advanced Materials</i> , 2015 , 27, 5567-72	24	212
223	Microcavity polariton splitting of intersubband transitions. <i>Physical Review Letters</i> , 2003 , 90, 116401	7.4	177
222	Far-infrared surface-plasmon quantum-cascade lasers at 21.5 fb and 24 fb wavelengths. <i>Applied Physics Letters</i> , 2001 , 78, 2620-2622	3.4	160
221	Room-temperature terahertz detectors based on semiconductor nanowire field-effect transistors. <i>Nano Letters</i> , 2012 , 12, 96-101	11.5	145
220	New frontiers in quantum cascade lasers and applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2000 , 6, 931-947	3.8	126
219	High performance interminiband quantum cascade lasers with graded superlattices. <i>Applied Physics Letters</i> , 1998 , 73, 2101-2103	3.4	125
218	High performance bilayer-graphene terahertz detectors. <i>Applied Physics Letters</i> , 2014 , 104, 061111	3.4	124
217	Terahertz quantum cascade laser as local oscillator in a heterodyne receiver. <i>Optics Express</i> , 2005 , 13, 5890-6	3.3	120
216	Single-mode surface-plasmon laser. <i>Applied Physics Letters</i> , 2000 , 76, 2164-2166	3.4	112
215	Quantum-limited frequency fluctuations in a terahertz laser. <i>Nature Photonics</i> , 2012 , 6, 525-528	33.9	110
214	High-resolution gas phase spectroscopy with a distributed feedback terahertz quantum cascade laser. <i>Applied Physics Letters</i> , 2006 , 89, 061115	3.4	109
213	Continuous-wave and high-power pulsed operation of index-coupled distributed feedback quantum cascade laser at B .5 th. <i>Applied Physics Letters</i> , 1998 , 72, 1430-1432	3.4	104

212	. IEEE Journal of Selected Topics in Quantum Electronics, 2014 , 20, 130-138	3.8	101
211	Controlled photon emission in porous silicon microcavities. <i>Applied Physics Letters</i> , 1995 , 67, 3280-3282	3.4	99
210	High-power continuous-wave quantum cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , 1998 , 34, 336-343	2	97
209	High-power B th quantum cascade lasers with near optimum performance. <i>Applied Physics Letters</i> , 1998 , 72, 3130-3132	3.4	96
208	Vertically emitting microdisk lasers. <i>Nature Photonics</i> , 2009 , 3, 46-49	33.9	92
207	Quasi-periodic distributed feedback laser. <i>Nature Photonics</i> , 2010 , 4, 165-169	33.9	90
206	Center-of-mass quantization of excitons and polariton interference in GaAs thin layers. <i>Physical Review B</i> , 1993 , 47, 10348-10357	3.3	88
205	Enhanced optical properties in porous silicon microcavities. <i>Physical Review B</i> , 1995 , 52, 14328-14331	3.3	85
204	Controlled Exciton-Photon Interaction in Semiconductor Bulk Microcavities. <i>Physical Review Letters</i> , 1995 , 75, 3906-3909	7.4	83
203	Long wavelength superlattice quantum cascade lasers at 217 fh. Applied Physics Letters, 1999, 74, 638-64	49 .4	82
202	. IEEE Transactions on Terahertz Science and Technology, 2011 , 1, 76-84	3.4	81
2 01	Design and simulation of terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2001 , 79, 3920-3927	23.4	81
200	A multiwavelength semiconductor laser. <i>Nature</i> , 1998 , 396, 350-353	50.4	76
199	Improved CW operation of quantum cascade lasers with epitaxial-side heat-sinking. <i>IEEE Photonics Technology Letters</i> , 1999 , 11, 1369-1371	2.2	71
198	Nanometer size field effect transistors for terahertz detectors. <i>Nanotechnology</i> , 2013 , 24, 214002	3.4	70
197	Terahertz saturable absorbers from liquid phase exfoliation of graphite. <i>Nature Communications</i> , 2017 , 8, 15763	17.4	69
196	Phase-locking to a free-space terahertz comb for metrological-grade terahertz lasers. <i>Nature Communications</i> , 2012 , 3, 1040	17.4	68
195	Dependence of the device performance on the number of stages in quantum-cascade lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1999 , 5, 808-816	3.8	68

194	Bulk exciton polaritons in GaAs microcavities. <i>Physical Review B</i> , 1995 , 52, 1800-1805	3.3	66
193	Linewidth enhancement factor of terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2008 , 92, 071106	3.4	65
192	Tunable terahertz quantum cascade lasers with an external cavity. <i>Applied Physics Letters</i> , 2007 , 91, 12	11504	64
191	High-performance operation of single-mode terahertz quantum cascade lasers with metallic gratings. <i>Applied Physics Letters</i> , 2005 , 87, 181101	3.4	60
190	Electrical control of polariton coupling in intersubband microcavities. <i>Applied Physics Letters</i> , 2005 , 87, 051105	3.4	59
189	Terahertz heterodyne receiver with quantum cascade laser and hot electron bolometer mixer in a pulse tube cooler. <i>Applied Physics Letters</i> , 2008 , 93, 141108	3.4	57
188	Optical bistability of semiconductor microcavities in the strong-coupling regime. <i>Physical Review A</i> , 1996 , 54, 3493-3498	2.6	57
187	Single-mode tunable, pulsed, and continuous wave quantum-cascade distributed feedback lasers at £4.6£.7 fb. <i>Applied Physics Letters</i> , 2000 , 76, 1092-1094	3.4	56
186	High-performance superlattice quantum cascade lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1999 , 5, 792-807	3.8	54
185	Excitonic properties of Zn1-xCdxSe/ZnSe strained quantum wells. <i>Physical Review B</i> , 1995 , 51, 5171-51	75 3.3	54
184	Perfect energy-feeding into strongly coupled systems and interferometric control of polariton absorption. <i>Nature Physics</i> , 2014 , 10, 830-834	16.2	52
183	High-speed modulation and free-space optical audio/video transmission using quantum cascade lasers. <i>Electronics Letters</i> , 2001 , 37, 191	1.1	52
182	Temperature profile of GaInAs/AlInAs/InP quantum cascade-laser facets measured by microprobe photoluminescence. <i>Applied Physics Letters</i> , 2001 , 78, 2095-2097	3.4	52
182 181		3.4	52 51
	photoluminescence. <i>Applied Physics Letters</i> , 2001 , 78, 2095-2097 Single-mode operation of terahertz quantum cascade lasers with distributed feedback resonators.		
181	photoluminescence. <i>Applied Physics Letters</i> , 2001 , 78, 2095-2097 Single-mode operation of terahertz quantum cascade lasers with distributed feedback resonators. <i>Applied Physics Letters</i> , 2004 , 84, 5446-5448	3.4	51
181	photoluminescence. <i>Applied Physics Letters</i> , 2001 , 78, 2095-2097 Single-mode operation of terahertz quantum cascade lasers with distributed feedback resonators. <i>Applied Physics Letters</i> , 2004 , 84, 5446-5448 Bidirectional Semiconductor Laser. <i>Science</i> , 1999 , 286, 749-752 Terahertz quantum-cascade lasers based on an interlaced photon-phonon cascade. <i>Applied Physics</i>	3.4	51 49

176	Surface plasmon photonic structures in terahertz quantum cascade lasers. <i>Optics Express</i> , 2006 , 14, 533.	53:45	47
175	High-power inter-miniband lasing in intrinsic superlattices. <i>Applied Physics Letters</i> , 1998 , 72, 2388-2390	3.4	46
174	High Performance Quantum Cascade Lasers. Optics and Photonics News, 1999, 10, 31	1.9	45
173	Terahertz confocal microscopy with a quantum cascade laser source. <i>Optics Express</i> , 2012 , 20, 21924-31	3.3	42
172	Submegahertz frequency stabilization of a terahertz quantum cascade laser to a molecular absorption line. <i>Applied Physics Letters</i> , 2010 , 96, 071112	3.4	41
171	Mid-infrared tunable quantum cascade lasers for gas-sensing applications. <i>IEEE Circuits and Devices:</i> the Magazine of Electronic and Photonic Systems, 2000 , 16, 10-18		41
170	Terahertz detection by epitaxial-graphene field-effect-transistors on silicon carbide. <i>Applied Physics Letters</i> , 2015 , 107, 131104	3.4	41
169	Strong opto-electro-mechanical coupling in a silicon photonic crystal cavity. <i>Optics Express</i> , 2015 , 23, 3196-208	3.3	40
168	High-power surface emission from terahertz distributed feedback lasers with a dual-slit unit cell. <i>Applied Physics Letters</i> , 2010 , 96, 191109	3.4	40
167	Semiconductor nanowires for highly sensitive, room-temperature detection of terahertz quantum cascade laser emission. <i>Applied Physics Letters</i> , 2012 , 100, 241101	3.4	37
166	Magneto-optic transmittance modulation observed in a hybrid graphene®plit ring resonator terahertz metasurface. <i>Applied Physics Letters</i> , 2015 , 107, 121104	3.4	35
165	Injectorless quantum-cascade lasers. <i>Applied Physics Letters</i> , 2001 , 78, 3950-3952	3.4	35
164	High-intensity interminiband terahertz emission from chirped superlattices. <i>Applied Physics Letters</i> , 2002 , 80, 1867-1869	3.4	34
163	Surface plasmon quantum cascade lasers at 🛭 19 th. <i>Applied Physics Letters</i> , 2000 , 77, 2286-2288	3.4	34
162	Nanowire-based field effect transistors for terahertz detection and imaging systems. <i>Nanotechnology</i> , 2013 , 24, 214005	3.4	33
161	Terahertz quantum cascade lasersfirst demonstration and novel concepts. <i>Semiconductor Science and Technology</i> , 2005 , 20, S222-S227	1.8	33
160	Hyperuniform disordered terahertz quantum cascade laser. Scientific Reports, 2016, 6, 19325	4.9	32
159	Nonadiabatic switching of a photonic band structure: Ultrastrong light-matter coupling and slow-down of light. <i>Physical Review B</i> , 2012 , 85,	3.3	31

158	Tunnel-assisted manipulation of intersubband polaritons in asymmetric coupled quantum wells. <i>Applied Physics Letters</i> , 2006 , 89, 171109	3.4	31
157	Electron-lattice coupling in bound-to-continuum THz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2006 , 88, 241109	3.4	30
156	Magnetic field in-plane quantization and tuning of population inversion in a THz superlattice quantum cascade laser. <i>Physical Review B</i> , 2003 , 68,	3.3	30
155	Dual-wavelength emission from optically cascaded intersubband transitions. <i>Optics Letters</i> , 1998 , 23, 463-5	3	30
154	Tuning a distributed feedback laser with a coupled microcavity. Optics Express, 2010, 18, 19185-91	3.3	28
153	MBE growth of terahertz quantum cascade lasers. <i>Journal of Crystal Growth</i> , 2005 , 278, 756-764	1.6	28
152	Se-doping dependence of the transport properties in CBE-grown InAs nanowire field effect transistors. <i>Nanoscale Research Letters</i> , 2012 , 7, 159	5	24
151	Electronic distribution in superlattice quantum cascade lasers. <i>Applied Physics Letters</i> , 2000 , 77, 1088-1	0914	24
150	Terahetz detection by heterostructed InAs/InSb nanowire based field effect transistors. <i>Applied Physics Letters</i> , 2012 , 101, 141103	3.4	23
149	Photocurrent-based detection of terahertz radiation in graphene. <i>Applied Physics Letters</i> , 2013 , 103, 211120	3.4	22
148	Intersubband polaritons in a one-dimensional surface plasmon photonic crystal. <i>Applied Physics Letters</i> , 2010 , 97, 231123	3.4	22
147	Non-equilibrium longitudinal and transverse optical phonons in terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2012 , 100, 091101	3.4	22
146	Cavity polaritons from excited-subband transitions. <i>Applied Physics Letters</i> , 2007 , 91, 231118	3.4	22
145	Low-threshold quantum-cascade lasers at 3.5 THz (lambda = 85 microm). <i>Optics Letters</i> , 2003 , 28, 810-2	3	22
144	Modification of excitonic emission in a GaAs bulk microcavity. <i>Applied Physics Letters</i> , 1995 , 66, 2388-23	19 9 4	22
143	High efficiency coupling of Terahertz micro-ring quantum cascade lasers to the low-loss optical modes of hollow metallic waveguides. <i>Optics Express</i> , 2011 , 19, 1122-30	3.3	21
142	Distributed feedback ring resonators for vertically emitting terahertz quantum cascade lasers. <i>Optics Express</i> , 2009 , 17, 13031-9	3.3	21
141	Continuous-wave operation of terahertz quantum-cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , 2003 , 39, 586-591	2	21

140	Tuning a microcavity-coupled terahertz laser. <i>Applied Physics Letters</i> , 2015 , 107, 261108	3.4	20
139	Coupling external cavity mid-IR quantum cascade lasers with low loss hollow metallic/dielectric waveguides. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 108, 255-260	1.9	20
138	Gain recovery dynamics of a terahertz quantum cascade laser. <i>Physical Review B</i> , 2009 , 80,	3.3	20
137	High-power, continuous-wave, current-tunable, single-mode quantum-cascade distributed-feedback lasers at lambda - 5.2 and lambda - 7.95 mum. <i>Optics Letters</i> , 2000 , 25, 230-2	3	20
136	Polaritonic effects in superlattices. <i>Physical Review B</i> , 1996 , 54, 2035-2043	3.3	20
135	Gate-Tunable Spatial Modulation of Localized Plasmon Resonances. <i>Nano Letters</i> , 2016 , 16, 5688-93	11.5	20
134	THz saturable absorption in turbostratic multilayer graphene on silicon carbide. <i>Optics Express</i> , 2015 , 23, 11632-40	3.3	19
133	Interferometric control of absorption in thin plasmonic metamaterials: general two port theory and broadband operation. <i>Optics Express</i> , 2015 , 23, 9202-10	3.3	19
132	Patterned tungsten disulfide/graphene heterostructures for efficient multifunctional optoelectronic devices. <i>Nanoscale</i> , 2018 , 10, 4332-4338	7.7	19
131	InAs/InP/InSb Nanowires as Low Capacitance n Heterojunction Diodes. <i>Physical Review X</i> , 2011 , 1,	9.1	19
130	Impact of nonequilibrium phonons on the electron dynamics in terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2010 , 97, 033110	3.4	19
129	Noncascaded intersubband injection lasers at 🛭 .7 🗈 . Applied Physics Letters, 1998 , 73, 3830-3832	3.4	19
128	Non-invasive absolute measurement of leaf water content using terahertz quantum cascade lasers. <i>Plant Methods</i> , 2017 , 13, 51	5.8	18
127	Guiding a terahertz quantum cascade laser into a flexible silver-coated waveguide. <i>Journal of Applied Physics</i> , 2011 , 110, 063112	2.5	17
126	Ultrafast optical bleaching of intersubband cavity polaritons. <i>Physical Review B</i> , 2012 , 86,	3.3	17
125	Quantum devices, MBE technology for the 21st century. <i>Journal of Crystal Growth</i> , 2001 , 227-228, 1-7	1.6	16
124	High temperature (T I 425 K) pulsed operation of quantum cascade lasers. <i>Electronics Letters</i> , 2000 , 36, 723	1.1	16
123	Long wavelength (? 13 [micro sign]m) quantum cascade lasers. <i>Electronics Letters</i> , 1998 , 34, 1103	1.1	16

122	Polaritons in anisotropic semiconductors. European Physical Journal B, 1995, 98, 39-47	1.2	16
121	Mid-infrared intersubband polaritons in dispersive metal-insulator-metal resonators. <i>Applied Physics Letters</i> , 2014 , 105, 081105	3.4	15
120	Distributed feedback terahertz frequency quantum cascade lasers with dual periodicity gratings. <i>Applied Physics Letters</i> , 2015 , 106, 011103	3.4	15
119	Long-wavelength interminiband Fabry-PEot and distributed feedback quantum cascade lasers. <i>Semiconductor Science and Technology</i> , 1998 , 13, 1333-1339	1.8	15
118	Boundary problems for polariton propagation in thin layers and quantum wells. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics,</i> 1992 , 14, 1203-1215		15
117	Room-Temperature High-Gain Long-Wavelength Photodetector via Optical E lectrical Controlling of Hot Carriers in Graphene. <i>Advanced Optical Materials</i> , 2018 , 6, 1800836	8.1	15
116	Dynamical back-action at 5.5 GHz in a corrugated optomechanical beam. <i>AIP Advances</i> , 2014 , 4, 124601	1.5	14
115	Spectral behavior of a terahertz quantum-cascade laser. <i>Optics Express</i> , 2009 , 17, 20476-83	3.3	14
114	Terahertz photodetectors based on tapered semiconductor nanowires. <i>Applied Physics Letters</i> , 2014 , 105, 231112	3.4	13
113	Analysis of line shapes and strong coupling with intersubband transitions in one-dimensional metallodielectric photonic crystal slabs. <i>Physical Review B</i> , 2012 , 85,	3.3	13
112	Resonant tuning fork detector for THz radiation. <i>Optics Express</i> , 2009 , 17, 14069-74	3.3	13
111	Advances in THz quantum cascade lasers: fulfilling the application potential 2005 , 5738, 146		13
110	Single-mode tunable quantum cascade lasers in the spectral range of the CO2 laser at /spl lambda/=9.5-10.5 fh. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 474-476	2.2	13
109	Band offsets in Zn1\(\mathbb{Z}\)CdxSe/ZnSe multiple quantum wells. Journal of Applied Physics, 1996 , 79, 929	2.5	13
108	Molecular Spectroscopy with TeraHertz Quantum Cascade Lasers. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2007 , 2, 101-107	1.3	13
107	Wide dynamic range terahertz detector pixel for active spectroscopic imaging with quantum cascade lasers. <i>Applied Physics Letters</i> , 2009 , 95, 213501	3.4	12
106	Electron beam induced current in InSb-InAs nanowire type-III heterostructures. <i>Applied Physics Letters</i> , 2012 , 101, 063116	3.4	12
105	Amplification of terahertz radiation in quantum cascade structures. <i>Journal of Applied Physics</i> , 2007 , 102, 063101	2.5	12

(2011-2020)

104	Optomechanics of Chiral Dielectric Metasurfaces. Advanced Optical Materials, 2020, 8, 1901507	8.1	12
103	Universal lineshapes at the crossover between weak and strong critical coupling in Fano-resonant coupled oscillators. <i>Scientific Reports</i> , 2016 , 6, 24592	4.9	12
102	Coherent absorption of light by graphene and other optically conducting surfaces in realistic on-substrate configurations. <i>APL Photonics</i> , 2017 , 2, 016101	5.2	11
101	THz quantum cascade designs for optimized injection. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2207-2209	3	11
100	Continuous wave operation of long wavelength (? 11 [micro sign]m) inter-miniband lasers. <i>Electronics Letters</i> , 2000 , 36, 876	1.1	11
99	Reflectivity of GaAs Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 1993 , 180, 115-125	1.3	11
98	Controlling local deformation in graphene using micrometric polymeric actuators. <i>2D Materials</i> , 2018 , 5, 045032	5.9	11
97	Anisotropic straining of graphene using micropatterned SiN membranes. APL Materials, 2016, 4, 11610) 7 _{5.7}	10
96	Differential near-field scanning optical microscopy with THz quantum cascade laser sources. <i>Optics Express</i> , 2009 , 17, 23785-92	3.3	10
95	Terahertz semiconductor-heterostructure lasers		10
95 94	Terahertz semiconductor-heterostructure lasers Very long wavelength (? 16 [micro sign]m) whispering gallery mode microdisk lasers. <i>Electronics Letters</i> , 2000 , 36, 328	1.1	10
	Very long wavelength (? 16 [micro sign]m) whispering gallery mode microdisk lasers. <i>Electronics</i>	1.1	
94	Very long wavelength (? 16 [micro sign]m) whispering gallery mode microdisk lasers. <i>Electronics Letters</i> , 2000 , 36, 328	3.3	10
94	Very long wavelength (? 16 [micro sign]m) whispering gallery mode microdisk lasers. <i>Electronics Letters</i> , 2000 , 36, 328 THz quantum cascade lasers based on a hyperuniform design 2015 ,	3.3	10
94 93 92	Very long wavelength (? 16 [micro sign]m) whispering gallery mode microdisk lasers. <i>Electronics Letters</i> , 2000 , 36, 328 THz quantum cascade lasers based on a hyperuniform design 2015 , Saturation and bistability of defect-mode intersubband polaritons. <i>Physical Review B</i> , 2015 , 91,	3.3	10 9 9
94 93 92 91	Very long wavelength (? 16 [micro sign]m) whispering gallery mode microdisk lasers. <i>Electronics Letters</i> , 2000 , 36, 328 THz quantum cascade lasers based on a hyperuniform design 2015 , Saturation and bistability of defect-mode intersubband polaritons. <i>Physical Review B</i> , 2015 , 91, Finite size effects in surface emitting Terahertz quantum cascade lasers. <i>Optics Express</i> , 2009 , 17, 6703 Photonic bands, superchirality, and inverse design of a chiral minimal metasurface. <i>Nanophotonics</i> ,	3·3 3-9 _{3·3}	10 9 9 9 9
94 93 92 91 90	Very long wavelength (? 16 [micro sign]m) whispering gallery mode microdisk lasers. <i>Electronics Letters</i> , 2000 , 36, 328 THz quantum cascade lasers based on a hyperuniform design 2015 , Saturation and bistability of defect-mode intersubband polaritons. <i>Physical Review B</i> , 2015 , 91, Finite size effects in surface emitting Terahertz quantum cascade lasers. <i>Optics Express</i> , 2009 , 17, 6703 Photonic bands, superchirality, and inverse design of a chiral minimal metasurface. <i>Nanophotonics</i> , 2019 , 8, 2291-2301 Continuous-wave laser operation of a dipole antenna terahertz microresonator. <i>Light: Science and</i>	3·3 3-9 _{3·3} 6.3	10 9 9 9 9

86	Frequency Characterization of a Terahertz Quantum-Cascade Laser. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007 , 56, 262-265	5.2	8
85	High power and tunable single-mode quantum cascade lasers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000 , 75, 93-99	3.1	8
84	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
83	High-performance quantum cascade lasers with electric-field-free undoped superlattice. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 260-262	2.2	8
82	Porous-silicon microcavities. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics,</i> 1996 , 18, 1213-1223		8
81	Physics and technology of Terahertz quantum cascade lasers. <i>Advances in Physics: X</i> , 2021 , 6, 1893809	5.1	8
80	Terahertz probe of individual subwavelength objects in a water environment. <i>Laser and Photonics Reviews</i> , 2014 , 8, 734-742	8.3	7
79	One-dimensional surface-plasmon gratings for the excitation of intersubband polaritons in suspended membranes. <i>Solid State Communications</i> , 2011 , 151, 1725-1727	1.6	7
78	Switching ultrastrong lighthatter coupling on a subcycle scale. <i>Journal of Applied Physics</i> , 2011 , 109, 102418	2.5	7
77	Giant intersubband polariton splitting in InAs/AlSb microcavities. <i>Solid State Communications</i> , 2007 , 142, 311-313	1.6	7
76	Quantum cascade lasers emitting at lambda greater than 100 [micro sign]m. <i>Electronics Letters</i> , 2003 , 39, 1254	1.1	7
75	Continuous wave operation of ~ 19 [micro sign]m surface-plasmon quantum cascade lasers. <i>Electronics Letters</i> , 2001 , 37, 1023	1.1	7
74	Band-offset determination in multiple quantum wells. <i>Journal of Crystal Growth</i> , 1996 , 159, 498-501	1.6	7
73	Saturable absorption of femtosecond optical pulses in multilayer turbostratic graphene. <i>Optics Express</i> , 2016 , 24, 15261-73	3.3	7
72	Coherent perfect absorption in photonic structures. <i>Rendiconti Lincei</i> , 2015 , 26, 219-230	1.7	6
71	Symmetry enhanced non-reciprocal polarization rotation in a terahertz metal-graphene metasurface. <i>Optics Express</i> , 2018 , 26, 3328-3340	3.3	6
70	Flexible, Low-loss Waveguide Designs for Efficient Coupling to Quantum Cascade Lasers in the Far-infrared. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012 , 33, 319-326	2.2	6
69	Terahertz quantum cascade lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 846-851	3	6

68	Novel quantum cascade devices for long wavelength IR emission. <i>Optical Materials</i> , 2001 , 17, 211-217	3.3	6
67	Multipolaritons in semiconductor thin layers: Interference effects in the reflectance spectra. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics,</i> 1993 , 15, 337-345		6
66	Detection of fungal infections in chestnuts: a terahertz imaging-based approach. <i>Food Control</i> , 2021 , 123, 107700	6.2	6
65	Local tuning of WS2 photoluminescence using polymeric micro-actuators in a monolithic van der Waals heterostructure. <i>Applied Physics Letters</i> , 2019 , 115, 183101	3.4	5
64	Contacts shielding in nanowire field effect transistors. <i>Journal of Applied Physics</i> , 2012 , 111, 064301	2.5	5
63	Quantum cascade laser: a compact, low cost, solid-state source for plasma diagnostics. <i>Journal of Instrumentation</i> , 2012 , 7, C02018-C02018	1	5
62	Quantum cascade lasers with double-quantum-well superlattices. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 278-280	2.2	5
61	Thermal noise and optomechanical features in the emission of a membrane-coupled compound cavity laser diode. <i>Scientific Reports</i> , 2016 , 6, 31489	4.9	5
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