Karl Unterrainer

List of Publications by Year
in descending order

433	7,169	42	76
papers	citations	h-index	g-index
		66343	71685

438	438	438	5686
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microcavity-Integrated Graphene Photodetector. Nano Letters, 2012, 12, 2773-2777.	9.1	753
2	Reversing the pump dependence of a laser at an exceptional point. Nature Communications, 2014, 5, 4034.	12.8	411
3	Quantum cascade lasers: ultrahigh-speed operation, optical wireless communication, narrow linewidth, and far-infrared emission. IEEE Journal of Quantum Electronics, 2002, 38, 511-532.	1.9	265
4	Intrinsic Response Time of Graphene Photodetectors. Nano Letters, 2011, 11, 2804-2808.	9.1	244
5	Few-Cycle THz Emission from Cold Plasma Oscillations. Physical Review Letters, 1997, 79, 3038-3041.	7.8	191
6	Inverse Bloch Oscillator: Strong Terahertz-Photocurrent Resonances at the Bloch Frequency. Physical Review Letters, 1996, 76, 2973-2976.	7.8	183
7	Phase-resolved measurements of stimulated emission in a laser. Nature, 2007, 449, 698-701.	27.8	171
8	Imaging with a Terahertz quantum cascade laser. Optics Express, 2004, 12, 1879.	3.4	145
9	Terahertz phase modulator. Electronics Letters, 2000, 36, 1156.	1.0	121
10	Terahertz emission from GaAs and InAs in a magnetic field. Physical Review B, 2001, 64, .	3.2	121
11	Quantum cascade lasers with double metal-semiconductor waveguide resonators. Applied Physics Letters, 2002, 80, 3060-3062.	3.3	104
12	Coherent plasmons inn-doped GaAs. Physical Review B, 1998, 58, 4553-4559.	3.2	101
13	Ultrafast intraband spectroscopy of electron capture and relaxation in InAs/GaAs quantum dots. Applied Physics Letters, 2003, 83, 3572-3574.	3.3	99
14	Active photonic crystal terahertz laser. Optics Express, 2009, 17, 941.	3.4	90
15	Random lasers for broadband directional emission. Optica, 2016, 3, 1035.	9.3	86
16	Metallic wave-impedance matching layers for broadband terahertz optical systems. Optics Express, 2007, 15, 6552.	3.4	85
17	Terahertz sources and detectors and their application to biological sensing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 365-377.	3.4	82
18	Temperature and Intensity Dependence of Intersubband Relaxation Rates from Photovoltage and Absorption. Physical Review Letters, 1995, 74, 2682-2685.	7.8	79

#	Article	IF	Citations
19	Time-domain measurement of intersubband oscillations in a quantum well. Applied Physics Letters, 1998, 72, 644-646.	3.3	78
20	Passive millimetreâ€“wave imaging and how it differs from terahertz imaging. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 379-393.	3.4	77
21	High power terahertz quantum cascade lasers with symmetric wafer bonded active regions. Applied Physics Letters, 2013, 103, .	3.3	77
22	GaAs/AlGaAs superlattice quantum cascade lasers at Î»â‰ˆ13â€ŠÎ¼m. Applied Physics Letters, 1999, 75, 1345-1347.	3.3	74
23	Terahertz photonic crystal resonators in double-metal waveguides. Optics Express, 2007, 15, 12418.	3.4	72
24	Transition Between Coherent and Incoherent Electron Transport inGaAs/GaAlAsSuperlattices. Physical Review Letters, 1998, 81, 3495-3498.	7.8	68
25	Influence of carrier-carrier interaction on time-dependent intersubband absorption in a semiconductor quantum well. Physical Review B, 2004, 70, .	3.2	63
26	Subwavelength micropillar array terahertz lasers. Optics Express, 2014, 22, 274.	3.4	62
27	Short pulse generation and mode control of broadband terahertz quantum cascade lasers. Optica, 2016, 3, 1087.	9.3	62
28	Influence of doping on the performance of terahertz quantum-cascade lasers. Applied Physics Letters, 2007, 90, 101107.	3.3	59
29	Ultrafast Coherent Electron Transport in Semiconductor Quantum Cascade Structures. Physical Review Letters, 2002, 89, 047402.	7.8	58
30	Potential for detection of explosive and biological hazards with electronic terahertz systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 337-349.	3.4	58
31	Magnetic-field-enhanced quantum-cascade emission. Applied Physics Letters, 2000, 76, 19-21.	3.3	54
32	High performance InGaAs/GaAsSb terahertz quantum cascade lasers operating up to 142â€‰K. Applied Physics Letters, 2012, 101, 211117.	3.3	53
33	Terahertz microcavity quantum-cascade lasers. Applied Physics Letters, 2005, 87, 211112.	3.3	51
34	Analysis of silicon nitride partial Euler waveguide bends. Optics Express, 2019, 27, 31394.	3.4	51
35	Heterogeneous terahertz quantum cascade lasers exceeding 1.9 THz spectral bandwidth and featuring dual comb operation. Nanophotonics, 2018, 7, 237-242.	6.0	49
36	Terahertz meta-atoms coupled to a quantum well intersubband transition. Optics Express, 2011, 19, 13700.	3.4	48

#	Article	IF	Citations
37	Excite-probe determination of the intersubband lifetime in wide GaAs/AlGaAs quantum wells using a far-infrared free-electron laser. Semiconductor Science and Technology, 1994, 9, 1554-1557.	2.0	47
38	Vertically emitting terahertz quantum cascade ring lasers. Applied Physics Letters, 2009, 95, .	3.3	47
39	Terahertz quantum cascade lasers based on type II InGaAs/GaAsSb/InP. Applied Physics Letters, 2010, 97, 261110.	3.3	45
40	Gain and losses in THz quantum cascade laser with metal-metal waveguide. Optics Express, 2011, 19, 733.	3.4	45
41	Silver nanoisland enhanced Raman interaction in graphene. Applied Physics Letters, 2012, 101, 153113.	3.3	45
42	CEP-stable tunable THz-emission originating from laser-waveform-controlled sub-cycle plasma-electron bursts. Optics Express, 2015, 23, 15278.	3.4	45
43	Terahertz quantum cascade structures: Intra- versus interwell transition. Applied Physics Letters, 2000, 77, 1928-1930.	3.3	43
44	Tunable cyclotron-resonance laser in germanium. Physical Review Letters, 1990, 64, 2277-2280.	7.8	41
45	InAs based terahertz quantum cascade lasers. Applied Physics Letters, 2016, 108, .	3.3	40
46	Intraband transitions in quantum dotâ€“superlattice heterostructures. Physical Review B, 2005, 72, .	3.2	39
47	Ballistic electron spectroscopy of vertical superlattice minibands. Applied Physics Letters, 1997, 70, 649-651.	3.3	38
48	Farâ€infrared pumpâ€probe measurements of the intersubband lifetime in an AlGaAs/GaAs coupledâ€quantum well. Applied Physics Letters, 1996, 68, 3019-3021.	3.3	37
49	High-performance terahertz electro-optic detector. Electronics Letters, 2004, 40, 763.	1.0	37
50	GaAs/AlGaAs-based microcylinder lasers emitting at 10 Î¼m. Applied Physics Letters, 1999, 75, 1045-1047.	3.3	36
51	Mode structure of thepâ€germanium farâ€infrared laser with and without external mirrors: Single line operation. Applied Physics Letters, 1988, 52, 564-566.	3.3	35
52	Sampling a terahertz dipole transition with subcycle time resolution. Optics Letters, 2000, 25, 272.	3.3	35
53	Polarization of terahertz radiation from laser generated plasma filaments. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2016.	2.1	35
54	Probing scattering mechanisms with symmetric quantum cascade lasers. Optics Express, 2013, 21, 7209.	3.4	35

#	Article	IF	Citations
55	Barrier Height Tuning of Terahertz Quantum Cascade Lasers for High-Temperature Operation. ACS Photonics, 2018, 5, 4687-4693.	6.6	35
56	Energy level engineering in InAs quantum dot nanostructures. Applied Physics Letters, 2002, 81, 2079-2081.	3.3	34
57	Electroluminescence of a quantum dot cascade structure. Applied Physics Letters, 2003, 82, 3862-3864.	3.3	34
58	Subwavelength Microdisk and Microring Terahertz Quantum-Cascade Lasers. IEEE Journal of Quantum Electronics, 2007, 43, 687-697.	1.9	34
59	Terahertz Active Photonic Crystals for Condensed Gas Sensing. Sensors, 2011, 11, 6003-6014.	3.8	34
60	Terahertz-electroluminescence in a quantum cascade structure. Physica B: Condensed Matter, 1999, 272, 216-218.	2.7	33
61	Spectroscopy in the gas phase with GaAs/AlGaAs quantum-cascade lasers. Applied Optics, 2000, 39, 6926.	2.1	33
62	Pulse-induced quantum interference of intersubband transitions in coupled quantum wells. Applied Physics Letters, 2004, 84, 64-66.	3.3	33
63	Thermoelectric-cooled terahertz quantum cascade lasers. Optics Express, 2019, 27, 20688.	3.4	33
64	Two-photon absorption in GaAs/AlGaAs multiple quantum wells. Physical Review Letters, 1989, 62, 3078-3081.	7.8	32
65	Farâ€infrared emission from parabolically graded quantum wells. Applied Physics Letters, 1996, 69, 3522-3524.	3.3	32
66	Temperature dependence of far-infrared electroluminescence in parabolic quantum wells. Applied Physics Letters, 1999, 74, 3158-3160.	3.3	32
67	Intersubband absorption dynamics in coupled quantum wells. Applied Physics Letters, 2001, 79, 2755-2757.	3.3	32
68	Improving the quality factor of the localized surface plasmon resonance. Optical Materials Express, 2015, 5, 2112.	3.0	32
69	Resonant metamaterial detectors based on THz quantum-cascade structures. Scientific Reports, 2014, 4, 4269.	3.3	32
70	Terahertz optical activity of sucrose single-crystals. Vibrational Spectroscopy, 2007, 43, 324-329.	2.2	31
71	Long wavelength (15 and 23 Î¼m) GaAs/AlGaAs quantum cascade lasers. Applied Physics Letters, 2002, 80, 3691-3693.	3.3	30
72	Free-carrier absorption in quantum cascade structures. Physical Review B, 2012, 85, .	3.2	30

#	Article	IF	Citations
73	Spectral gain profile of a multi-stack terahertz quantum cascade laser. Applied Physics Letters, 2014, 105, .	3.3	30
74	Self-aligned coupled cavity GaAs/AlGaAs midinfrared quantum-cascade laser. Applied Physics Letters, 2000, 77, 1077-1079.	3.3	29
75	Ultrastrong coupling of intersubband plasmons and terahertz metamaterials. Applied Physics Letters, 2013, 103, .	3.3	28
76	High-energy diode side-pumped Er:LiYF₄laser. Applied Optics, 2018, 57, 1497.	1.8	28
77	Intersubband Transport in Quantum Wells in Strong Magnetic Fields Mediated by Single- and Two-Electron Scattering. Physical Review Letters, 2002, 88, 226803.	7.8	27
78	Comb operation in terahertz quantum cascade ring lasers. Optica, 2021, 8, 780.	9.3	27
79	Terahertz quantum cascade lasers in a magnetic field. Applied Physics Letters, 2003, 83, 3873-3875.	3.3	26
80	Ultrafast phase-resolved pump-probe measurements on a quantum cascade laser. Applied Physics Letters, 2008, 93, 151106.	3.3	26
81	Dopant migration effects in terahertz quantum cascade lasers. Applied Physics Letters, 2013, 102, 201102.	3.3	26
82	Gain dynamics in a heterogeneous terahertz quantum cascade laser. Applied Physics Letters, 2018, 113, .	3.3	25
83	Quantum cascade lasers with monolithic airâ€“semiconductor Bragg reflectors. Applied Physics Letters, 2000, 77, 1241-1243.	3.3	24
84	Plasmon-based terahertz emission from quantum well structures. Applied Physics Letters, 1999, 75, 1685-1687.	3.3	23
85	Longitudinal spatial hole burning in terahertz quantum cascade lasers. Applied Physics Letters, 2007, 91, 161108.	3.3	23
86	Coherent terahertz emission from optically pumped intersubband plasmons in parabolic quantum wells. Applied Physics Letters, 2000, 76, 3501-3503.	3.3	22
87	Dispersion in a broadband terahertz quantum cascade laser. Applied Physics Letters, 2016, 109, .	3.3	22
88	High-Power Growth-Robust InGaAs/InAlAs Terahertz Quantum Cascade Lasers. ACS Photonics, 2017, 4, 957-962.	6.6	22
89	Excitation of terahertz surface plasmon polaritons on etched groove gratings. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 554.	2.1	20
90	Role of geometry for strong coupling in active terahertz metamaterials. Physical Review B, 2013, 87, .	3.2	19

#	Article	IF	Citations
91	All-optical adaptive control of quantum cascade random lasers. Nature Communications, 2020, 11, 5530.	12.8	19
92	Influence of impurity absorption on germanium hot-hole laser spectra. Semiconductor Science and Technology, 1994, 9, 638-640.	2.0	18
93	Surface-modified GaAs terahertz plasmon emitter. Applied Physics Letters, 2002, 81, 871-873.	3.3	18
94	Ultrafast probing of light-matter interaction in a midinfrared quantum cascade laser. Applied Physics Letters, 2008, 93, 091105.	3.3	18
95	Dynamically phase-matched terahertz generation. Optics Letters, 2012, 37, 1047.	3.3	18
96	Influence of the facet type on the performance of terahertz quantum cascade lasers with double-metal waveguides. Applied Physics Letters, 2013, 102, 231121.	3.3	17
97	Stimulated emission frompâ€Ge due to transitions between lightâ€hole Landau levels and excited states of shallow impurities. Applied Physics Letters, 1992, 60, 1785-1787.	3.3	16
98	Tunable cyclotron resonance-laser in p-Ge. Semiconductor Science and Technology, 1992, 7, B604-B609.	2.0	16
99	Terahertz quantum cascade lasers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 215-231.	3.4	16
100	Electrically controllable photonic molecule laser. Optics Express, 2009, 17, 20321.	3.4	16
101	Terahertz emitter with integrated semiconductor Bragg mirror. Electronics Letters, 2003, 39, 460.	1.0	15
102	Tunable far-infrared solid-state lasers based on hot holes in germanium. Optical and Quantum Electronics, 1991, 23, S267-S286.	3.3	14
103	Time-resolved THz spectroscopy of proton-bombarded InP. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 1369.	2.1	14
104	p-type Ge cyclotron-resonance laser: Theory and experiment. Physical Review B, 1993, 47, 4522-4531.	3.2	13
105	GaAs/AlGaAs quantum cascade laser â€" a source for gas absorption spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 37-39.	2.7	13
106	Doping dependence of LO-phonon depletion scheme THz quantum-cascade lasers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 147, 152-155.	3.5	13
107	Broadband terahertz amplification in a heterogeneous quantum cascade laser. Optics Express, 2015, 23, 3117.	3.4	13
108	Ballistic electron transport in vertical biased superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 2, 282-286.	2.7	12

#	Article	IF	Citations
109	Propagation of terahertz pulses in random media. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 301-314.	3.4	12
110	Quantum dot structures grown on Al containing quaternary material for infrared photodetection beyond 10Î¼m. Applied Physics Letters, 2007, 90, 173510.	3.3	12
111	Guided Modes in Layered Semiconductor Terahertz Structures. IEEE Journal of Quantum Electronics, 2010, 46, 618-625.	1.9	12
112	Terahertz waveguide emitter with subwavelength confinement. Journal of Applied Physics, 2010, 107, 013110.	2.5	12
113	Spectrally coded optical nanosectioning (SpecON) with biocompatible metal-dielectric-coated substrates. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20069-20074.	7.1	12
114	Slot-Waveguide Silicon Nitride Organic Hybrid Distributed Feedback Laser. Scientific Reports, 2019, 9, 18438.	3.3	12
115	Material gain concentration quenching in organic dye-doped polymer thin films. Optical Materials Express, 2019, 9, 1208.	3.0	12
116	Single mode operation of the p-Ge FIR laser. Infrared Physics, 1989, 29, 357-360.	0.5	11
117	Tunable cyclotron resonance laser based on hot holes in germanium applied to FIR spectroscopy of GaAs/AlGaAs heterostructures. Solid-State Electronics, 1989, 32, 1527-1531.	1.4	11
118	Ultrafast spectral hole burning spectroscopy of exciton spin flip processes in InAsâˆ•GaAs quantum dots. Applied Physics Letters, 2006, 88, 192105.	3.3	11
119	Quasi phase-matched terahertz detector. Electronics Letters, 2010, 46, 788.	1.0	11
120	THz-driven nonlinear intersubband dynamics in quantum wells. Optics Express, 2012, 20, 23053.	3.4	11
121	InGaAs/GaAsSb/InP terahertz quantum cascade lasers. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 374-385.	2.2	11
122	Efficient population transfer in modulation doped single quantum wells by intense few-cycle terahertz pulses. New Journal of Physics, 2013, 15, 065014.	2.9	11
123	Magnetic-field assisted performance of InGaAs/GaAsSb terahertz quantum cascade lasers. Applied Physics Letters, 2013, 103, .	3.3	11
124	Cooperative effects in an ensemble of planar meta-atoms. Applied Physics Letters, 2017, 110, 261101.	3.3	11
125	Evaluation of Material Systems for THz Quantum Cascade Laser Active Regions. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800504.	1.8	11
126	Broadband Terahertz Detection With Zero-Bias Field-Effect Transistors Between 100 GHz and 11.8 THz With a Noise Equivalent Power of 250 pW/$sqrt{ext{Hz}}$ at 0.6 THz. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 465-471.	3.1	11

#	Article	IF	Citations
127	Electric and magnetic dipole two-photon absorption in semiconductors. Physical Review B, 1996, 54, 7917-7920.	3.2	10
128	Ultrafast resonant terahertz response of excitons in semiconductor quantum dots. Physical Review B, 2008, 77, .	3.2	10
129	Materials science in the far-IR with electrostatic based FELs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 358, 536-539.	1.6	9
130	Quenching of Miniband Transport in Biased Undoped Superlattices. Physica Status Solidi (B): Basic Research, 1997, 204, 393-396.	1.5	9
131	Voltage-controlled intracavity terahertz generator for self-starting Ti:sapphire lasers. Optics Letters, 2002, 27, 1941.	3.3	9
132	Photoconductive response of InAs/GaAs quantum dot stacks. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 190-193.	2.7	9
133	Single InAs/GaAs quantum dots: Photocurrent and cross-sectional AFM analysis. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 183-186.	2.7	9
134	Intraband Auger effect in InAsâˆ•InGaAlAsâˆ•InP quantum dot structures. Applied Physics Letters, 2008, 93, 052103.	3.3	9
135	Modulated reflectance study of InAs quantum dot stacks embedded in GaAs/AlAs superlattice. Journal of Applied Physics, 2009, 106, .	2.5	9
136	New results on stimulated emission from p-Germanium in crossed fields. Solid-State Electronics, 1988, 31, 759-762.	1.4	8
137	Towards terahertz near-field microscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 315-321.	3.4	8
138	Photocurrent spectroscopy of single InAs/GaAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3114-3117.	0.8	8
139	Intersubband gain-induced dispersion. Optics Letters, 2009, 34, 208.	3.3	8
140	Blueshift of intersubband magneto-optical transitions linked to void states of thin barriers in multiple quantum well structures. Physical Review B, 2010, 82, .	3.2	8
141	THz quantum cascade lasers with wafer bonded active regions. Optics Express, 2012, 20, 23832.	3.4	8
142	High brightness diode pumped Er:YAG laser system at 2.94 Âµm with nearly 1kW peak power. Proceedings of SPIE, 2016, , .	0.8	8
143	Color switching of a terahertz quantum cascade laser. Applied Physics Letters, 2019, 114, 191104.	3.3	8
144	Terahertz optical machine learning for object recognition. APL Photonics, 2020, 5, .	5.7	8

#	Article	IF	Citations
145	Integrated silicon nitride organic hybrid DFB laser with inkjet printed gain medium. Optics Express, 2019, 27, 29350.	3.4	8
146	Silicon integrated terahertz quantum cascade ring laser frequency comb. Applied Physics Letters, 2022, 120, .	3.3	8
147	Hot-carrier quantum distribution function in crossed electric and magnetic fields. Physical Review B, 1989, 39, 6212-6215.	3.2	7
148	Coherent THz plasmons in GaAs/AlGaAs superlattices. Physica B: Condensed Matter, 1999, 272, 375-377.	2.7	7
149	Few-cycle THz generation for imaging and tomography applications. Physics in Medicine and Biology, 2002, 47, 3691-3697.	3.0	7
150	Fewâ€“cycle terahertz generation and spectroscopy of nanostructures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 251-262.	3.4	7
151	Microcavity THz quantum cascade laser. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 316-319.	2.7	7
152	Simultaneous positive and negative photocurrent response in asymmetric quantum dot infrared photodetectors. Journal of Applied Physics, 2013, 113, 043721.	2.5	7
153	Thermal-Dynamics Optimization of Terahertz Quantum Cascade Lasers with Different Barrier Compositions. Physical Review Applied, 2020, 14, .	3.8	7
154	Resonant tunneling diodes strongly coupled to the cavity field. Applied Physics Letters, 2020, 116, .	3.3	7
155	Effect of valence-band anisotropy and nonparabolicity on total scattering rates for holes in nonpolar semiconductors. Physical Review B, 1994, 49, 13991-13994.	3.2	6
156	Towards stimulated generation of coherent plasmons in nanostructures. Journal of Applied Physics, 1999, 85, 3708-3712.	2.5	6
157	Resonant Tunneling Mediated by Resonant Emission of Intersubband Plasmons. Physical Review Letters, 2001, 86, 2850-2853.	7.8	6
158	Energy level engineering in InAs quantum dot stacks embedded in AlAs/GaAs superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 42-45.	2.7	6
159	From Photonic Crystal to Subwavelength Micropillar Array Terahertz Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 780-791.	2.9	6
160	Deep learning control of THz QCLs. Optics Express, 2021, 29, 23611.	3.4	6
161	Flexible terahertz opto-electronic frequency comb light source tunable over 3.5â€‰â€‰THz. Optics Letters, 2021, 46, 5715.	3.3	6
162	High Intensity p-Ge Tunable Cyclotron Resonance Laser. Journal of Modern Optics, 1992, 39, 561-568.	1.3	5

#	Article	IF	Citations
163	Intersubband scattering of cold electrons in a coupled quantum well with subband spacing below â„ï‰LO. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 2, 195-199.	2.7	5
164	Terahertz quantum cascade emitters based on AlAs/GaAs. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 900-903.	2.7	5
165	Exotic transport regime in GaAs: absence of intervalley scattering leading to quasi-ballistic, real-space THz oscillations. Semiconductor Science and Technology, 2004, 19, S195-S198.	2.0	5
166	Tracing deeply buried InAsâˆ•GaAs quantum dots using atomic force microscopy and wet chemical etching. Applied Physics Letters, 2005, 86, 063111.	3.3	5
167	Scattering strength dependence of terahertz random lasers. Journal of Applied Physics, 2019, 125, 151611.	2.5	5
168	Acousto-optically Q-switched diode side-pumped Er:YLF laser generating 50kW peak power in 70ns pulses. , 2019, , .		5
169	Energy Spectrum of InAs Quantum Dots in GaAs/AlAs Superlattices. Acta Physica Polonica A, 2008, 113, 975-978.	0.5	5
170	Intersubband dynamics of asymmetric quantum wells studied by THz `optical rectification'. Semiconductor Science and Technology, 1996, 11, 1591-1595.	2.0	4
171	Improved performance of GaAs-AlGaAs superlattice quantum cascade lasers beyond /spl lambda/=13 Î¼m. IEEE Photonics Technology Letters, 2000, 12, 1144-1146.	2.5	4
172	Intersubband relaxation dynamics in semiconductor quantum structures. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 908-911.	2.7	4
173	Magnetic field effects in terahertz quantum-cascade lasers. Semiconductor Science and Technology, 2004, 19, S348-S350.	2.0	4
174	Intraband relaxation of photoexcited electrons in GaAs/AlGaAs quantum wells and InAs/GaAs self-assembled quantum dots. Semiconductor Science and Technology, 2004, 19, S287-S289.	2.0	4
175	THz collective oscillations of ballistic electrons in wide potential wells: Bridging classical transport with quantum dynamics. Europhysics Letters, 2005, 70, 534-540.	2.0	4
176	Optimization of MBE Growth Parameters for GaAs-based THz Quantum Cascade Lasers. AIP Conference Proceedings, 2007, , .	0.4	4
177	Improved InGaAs/GaAsSb quantum cascade laser active region designs. Journal of Modern Optics, 2011, 58, 2015-2020.	1.3	4
178	Exceptionally Narrow-Band Quantum Dot Infrared Photodetector. IEEE Journal of Quantum Electronics, 2012, 48, 1360-1366.	1.9	4
179	All-Electrical Thermal Monitoring of Terahertz Quantum Cascade Lasers. IEEE Photonics Technology Letters, 2014, 26, 1470-1473.	2.5	4
180	Spectrally resolved far-fields of terahertz quantum cascade lasers. Optics Express, 2016, 24, 25462.	3.4	4

#	Article	IF	Citations
181	Disk patch resonators for cavity quantum electrodynamics at the terahertz frequency. Optics Express, 2017, 25, 12311.	3.4	4
182	Dielectric control of localized plasmons in terahertz metamaterials. Photonics and Nanostructures - Fundamentals and Applications, 2019, 37, 100734.	2.0	4
183	Finite-Difference Time-Domain Simulation of Mid- and Far-Infrared Quantum Cascade Lasers. Acta Physica Polonica A, 2005, 107, 179-183.	0.5	4
184	Landau level laser. Nature Photonics, 2021, 15, 875-883.	31.4	4
185	Direct evidence for the role of streaming motion in the hot-hole p-Ge laser. Semiconductor Science and Technology, 1993, 8, 2053-2057.	2.0	3
186	Optical rectification as a probe of quantum dynamics in a heterostructure. Superlattices and Microstructures, 1995, 17, 159-162.	3.1	3
187	GaAs/AlGaAs Intersubband MID-Infrared Emitter. Materials Research Society Symposia Proceedings, 1997, 484, 165.	0.1	3
188	GaAs/AlGaAs quantum cascade intersubband and interminiband emitter. Journal of Crystal Growth, 1999, 201-202, 919-922.	1.5	3
189	Chapter 3 Photon-Assisted Tunneling in Semiconductor Quantum Structures. Semiconductors and Semimetals, 1999, 66, 127-186.	0.7	3
190	The lower branch of plasmon-phonon coupled modes. Semiconductor Science and Technology, 2000, 15, 813-817.	2.0	3
191	High-quality MBE growth of AlÏ‡Ga1-Ï‡ As-based THz quantum cascade lasers. Open Physics, 2007, 5, .	1.7	3
192	Photonic crystal mode terahertz lasers. Journal of Applied Physics, 2009, 105, 122404.	2.5	3
193	Coherent control of ground state excitons in the nonlinear regime within an ensemble of selfâ€assembled InAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 876-878.	0.8	3
194	Superconducting Microdisk Cavities for THz Quantum Cascade Lasers. IEEE Transactions on Terahertz Science and Technology, 2012, 2, 550-555.	3.1	3
195	Experimental determination of effective parameters in a layered metamaterial. Physical Review B, 2012, 85, .	3.2	3
196	Towards nanowire-based terahertz quantum cascade lasers: prospects and technological challenges. Proceedings of SPIE, 2013, , .	0.8	3
197	Coupled cavity terahertz quantum cascade lasers with integrated emission monitoring. Optics Express, 2015, 23, 3581.	3.4	3
198	Theoretical aspects of time-domain spectroscopy of semiconductor terahertz gain medium. AIP Conference Proceedings, 2007, , .	0.4	3

#	Article	IF	Citations
199	Femtosecond Spectral Hole Burning Spectroscopy as a Probe of Exciton Dynamics in Quantum Dots. Acta Physica Polonica A, 2008, 113, 777-782.	0.5	3
200	Two-photon magnetoabsorption in GaAs/AlGaAs multiple quantum wells. Surface Science, 1992, 267, 505-508.	1.9	2
201	Crossed-field hot-hole cyclotron resonance in p-Ge: nonparabolic and quantum effects. Semiconductor Science and Technology, 1993, 8, S313-S316.	2.0	2
202	Influence of impurities on broadbandp-type-Ge laser spectra under uniaxial stress. Physical Review B, 1993, 47, 16586-16589.	3.2	2
203	Few-cycle THZ spectroscopy of semiconductor quantum structures. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 9, 76-83.	2.7	2
204	Terahertz emission from magnetoplasma oscillations in semiconductors. , 2002, 4643, 12.		2
205	Intersublevel dynamics of semiconductor nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 25, 271-279.	2.7	2
206	Sub-wavelength terahertz quantum-cascade laser resonators. , 2006, , .		2
207	Terahertz Quantum Cascade Devices: From Intersubband Transition to Microcavity Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 307-314.	2.9	2
208	Numerical sampling rules for paraxial regime pulse diffraction calculations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2299.	1.5	2
209	Atomic force microscopy based room temperature photocurrent-spectroscopy of single subsurface InAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 793-796.	0.8	2
210	Photonic bandstructure engineering of THz quantum-cascade lasers. Applied Physics Letters, 2011, 99, 201103.	3.3	2
211	Nonorthodox heterodyne electro-optic detection for terahertz optical systems. Applied Physics Letters, 2011, 98, 161112.	3.3	2
212	Rotating polarization spectroscopy for single nano-antenna characterization. Optics Express, 2013, 21, 30903.	3.4	2
213	A Coupled-Spiral Silicon Nitride Organic-Hybrid Laser. IEEE Photonics Technology Letters, 2020, 32, 561-564.	2.5	2
214	Third Harmonic Generation in a Gaas/Algaas Superlattice in the Bloch Oscillator Regime. , 1996, , 161-163.		2
215	Time and Frequency Resolved THz Spectroscopy of Micro- and Nano-Systems. Acta Physica Polonica A, 2005, 107, 92-98.	0.5	2
216	Tunability of THz Emission Originating from Sub-Cycle Electron Bursts in a Laser Induced Plasma. , 2010, , .		2

#	Article	IF	Citations
217	First observation of the forbidden 1s excitons in GaAs/AlGaAs multiple quantum wells via two-photon absorption spectra. Surface Science, 1990, 228, 53-56.	1.9	1
218	Tuneable FIR cyclotron resonance laser in p-Ge: New aspects of the influence of the bandstructure. Physica Scripta, 1993, T49B, 497-502.	2.5	1
219	Nonlinear resonant optical rectification in a coupled quantum well. Surface Science, 1996, 361-362, 401-405.	1.9	1
220	Coherent Few-Cycle THz Emission from Plasmons in Bulk GaAs. Physica Status Solidi (B): Basic Research, 1997, 204, 67-69.	1.5	1
221	Ballistic and dissipative electron transport in semiconductor superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 3, 152-157.	2.7	1
222	Plasmon-based terahertz laser without population inversion. , 1999, , .		1
223	Scattering and Bloch oscillation in semiconductor superlattices. Physica B: Condensed Matter, 1999, 272, 175-179.	2.7	1
224	Few-cycle THz spectroscopy of nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 693-697.	2.7	1
225	Intersubband and interminiband GaAs/AlGaAs quantum cascade lasers at. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 709-712.	2.7	1
226	Magneto-optical Terahertz emission from plasmons in parabolic quantum wells. Semiconductor Science and Technology, 2000, 15, 315-321.	2.0	1
227	Monitoring the ultrafast electric field change at a mid-infrared plasma Bragg mirror. Optics Letters, 2001, 26, 1618.	3.3	1
228	<title>Gas absorption spectroscopy using GaAs/AlGaAs quantum cascade lasers and a hollow waveguide absorption cell</title>. , 2001, , .		1
229	Photoconductive terahertz emitter with an integrated semiconductor Bragg mirror. , 0, , .		1
230	Terahertz spectroscopy of vibrational modes of molecular crystal of sucrose. , 0, , .		1
231	Optically induced intraband electron transfer in self-assembled InAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 434-437.	0.8	1
232	Optical control processes in terahertz quantum-cascade laser waveguides. , 0, , .		1
233	Microcavity terahertz quantum-cascade laser. , 2005, 6010, 36.		1
234	Intraband InAs/InAlGaAs/InP Quantum Dot Detectors for the MIR. , 2007, , .		1

#	Article	IF	Citations
235	Design, Fabrication and Performance of Microdevices for Infrared Detection Applications. ECS Transactions, 2007, 4, 35-41.	0.5	1
236	The Influence of Doping on the Performance of Terahertz Quantum-Cascade-Lasers. , 2007, , WB5.		1
237	Two-electron states bound to interface defects in quantum cascade lasers subjected to a strong magnetic field. Physical Review B, 2007, 76, .	3.2	1
238	Fast numerical algorithm for ultrashort THz pulse diffraction. Proceedings of SPIE, 2007, , .	0.8	1
239	Polarization Dependence of Photocurrent in Quantum-Dot Infrared Photodetectors. AIP Conference Proceedings, 2007, , .	0.4	1
240	Acoustic phonon-assisted damping of Rabi oscillations in InAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2013-2015.	2.7	1
241	Dynamical frequency pulling of degenerated and nondegenerated modes in small mode volume whispering-gallery terahertz quantum-cascade lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1840-1843.	2.7	1
242	Comparison between NEGF simulation and experimental results of Terahertz quantum cascade lasers. , 2009, , .		1
243	Optical study of InAs quantum dot stacks embedded in GaAs/AlAs superlattices. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2710-2712.	0.8	1
244	Two-photon spectral hole burning spectroscopy of InAs/GaAs quantum dots. Applied Physics Letters, 2010, 97, 011903.	3.3	1
245	Designer Laser Resonators based on Amplifying Photonic Crystals. , 0, , .		1
246	InGaAs/GaAsSb Terahertz Quantum Cascade Lasers. , 2011, , .		1
247	Terahertz emission from a two-color plasma filament in a slot waveguide. Applied Physics Letters, 2012, 100, 091113.	3.3	1
248	Ultra-thin terahertz waveguides on periodic dielectric multilayers. , 2013, , .		1
249	Pulse generation and spectral optimization of broadband terahertz quantum cascade lasers. , 2016, , .		1
250	<title>First observation of 2P-magnetoexcitons in GaAs/AlGaAs multiple quantum wells via two-photon absorption processes</title>. , 1990, 1283, 310.		0
251	Tunable cyclotron-resonance laser in germanium. , 1991, , .		0
252	Observation of two emission lines in the p-type-Ge cyclotron resonance laser. IEEE Journal of Quantum Electronics, 1994, 30, 2778-2780.	1.9	0

#	Article	IF	Citations
253	Band-warping-induced transverse population inversion of hot heavy holes in germanium at high electric fields. Physical Review B, 1995, 52, 10701-10704.	3.2	0
254	Characterization of GaAs/AlGaAs mid-infrared emitters. , 1997, , .		0
255	Hot electron spectroscopy of undoped GaAs/GaAlAs superlattices. Superlattices and Microstructures, 1997, 22, 143-148.	3.1	0
256	THz emission from parabolically graded quantum wells in tilted magnetic fields. , 0, , .		0
257	GaAs AlGaAs intersubband MIR lasers. , 1999, 3828, 32.		0
258	GaAs/AlGaAs microresonator quantum cascade lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 29-32.	2.7	0
259	Voltage-controlled intracavity THz generator for self-starting Ti:sapphire lasers. , 0, , .		0
260	Time-resolved measurement of intersubband population dynamics. , 0, , .		0
261	Coherent and incoherent intersubband dynamics. , 0, , .		0
262	Ultrafast coherent electron transport in quantum cascade laser structures. , 0, , .		0
263	Quantum cascade lasers and metal waveguides at Î» > 20 Î¼m. , 2002, , .		0
264	Direct measurement of intersubband dynamics. Physica B: Condensed Matter, 2002, 314, 259-262.	2.7	0
265	Electrical field mapping in InGaP HEMTs and GaAs terahertz emitters using backside infrared OBIC technique.. Microelectronics Reliability, 2002, 42, 1673-1677.	1.7	0
266	Compact THz-source based on femtosecond Ti:Sapphire laser and intracavity photoconductive emitter. , 2003, 4978, 50.		0
267	IR quantum dot detectors with miniband tunnel extraction. , 0, , .		0
268	New Generation of Photoconductive Few-Cycle Terahertz Emitters. Springer Series in Optical Sciences, 2004, , 405-410.	0.7	0
269	Terahertz time-domain linear spectroscopy of single-walled carbon nanotube film. , 0, , .		0
270	Ultra-thin metallic layers studied by broadband terahertz time-domain spectroscopy. , 0, , .		0

#	Article	IF	Citations
271	Coherent vs. incoherent charge transport in semiconductor quantum cascade structures. , 2004, 5352, 333.		0
272	Absorption of single-wall carbon nanotubes at terahertz frequencies. , 0, , .		0
273	Optical control in active terahertz waveguides. , 0, , .		0
274	THz evanescent field spectroscopy. , 0, , .		0
275	Transient spectral hole burning spectroscopy of exciton spin flip processes in In(Ga)As quantum dots. , 2005, , .		0
276	Ballistic transport in semiconductor nanostructures: From quasi-classical oscillations to novel THz-emitters. Pramana - Journal of Physics, 2006, 67, 199-205.	1.8	0
277	Exciton spin relaxation in semiconductor quantum dots. , 2006, , .		0
278	Time-domain spectroscopy of THz quantum cascade lasers: Theoretical and experimental aspects. , 2006, , .		0
279	Coherent probing of quantum cascade laser emission by terahertz time-domain spectroscopy. , 2006, , .		0
280	Gain and losses in terahertz quantum cascade laser. , 2007, , .		0
281	Limits Of Strong Mode Confinement In Microdisk Terahertz Quantum-Cascade Lasers. , 2007, , .		0
282	Effects of doping concentration on terahertz quantum-cascade lasers. , 2007, , .		0
283	Damping of Rabi Oscillations in InAs Quantum Dots due to Acoustic Phonons. , 2007, , .		0
284	Time resolved spectroscopy of dynamics in mid infrared quantum cascade lasers below and above threshold. , 2007, , .		0
285	Effects of doping on terahertz quantum-cascade lasers. , 2007, , .		0
286	THz time-domain spectroscopy of THz quantum cascade lasers. , 2007, , .		0
287	Ultra-compact low threshold whispering-gallery terahertz quantum-cascade lasers. , 2007, , .		0
288	Limits of strong mode confinement in microdisk terahertz quantum-cascade lasers. , 2007, , .		0

#	Article	IF	Citations
289	Terahertz time-domain spectroscopy of surface plasmon polaritons on periodic metal arrays. , 2007, , .		0
290	Thermally activated absorption in terahertz semiconductor heterostructure lasers. , 2007, , .		0
291	THz sensing of doping concentrations in epitaxial semi-conductors and 2-D electron gases: theory and experiment. , 2007, , .		0
292	Terahertz surface plasmon polaritons on periodic metal arrays. , 2007, , .		0
293	Photonic crystals with a complete bandgap for TM-modes used as resonators for terahertz quantum-cascade lasers. , 2007, , .		0
294	Acoustic phonon damping of Rabi oscillations in In(Ga)As quantum dots. , 2007, , .		0
295	Polarization Dependence of Photocurrent in InAs/InGaAs/InP Quantum-Dot Infared Photodetectors. ECS Transactions, 2007, 4, 345-352.	0.5	0
296	Propagation of surface plasmon polaritons on periodic metal arrays. , 2007, , .		0
297	Investigation of pulsed image-plane distributions with applications in time domain THz spectroscopy. , 2007, , .		0
298	From few-cycle THz pulses to terahertz quantum-cascade lasers. , 2007, , .		0
299	"Single-Mode" Whispering-Gallery Terahertz Quantum-Cascade Lasers with Controlled Degeneracy. , 2007, , .		0
300	Terahertz quantum-cascade laser dynamics in time-domain. AIP Conference Proceedings, 2007, , .	0.4	0
301	Polarization dependence of intraband transitions in QDIPs. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 304-306.	0.8	0
302	Terahertz quantum-cascade lasers: Time domain spectroscopy and micro cavity effects. , 2008, , .		0
303	Quantum-cascade photonic crystal laser. , 2008, , .		0
304	THz ellipsometry in theory and experiment. , 2008, , .		0
305	Evidence for an Intraband Auger Effect in InAs/InGaAlAs/InP Quantum Dot Structures. ECS Transactions, 2008, 14, 467-471.	0.5	0
306	Terahertz subwavelength waveguide emitters. , 2008, , .		0

#	Article	IF	Citations
307	Growth of GaAs whiskers by MBE on LPCVD Si(111) nanowire trunks. , 2008, , .		0
308	Terahertz surface plasmon on chirped groove grating. , 2008, , .		0
309	Terahertz photonic crystals. , 2008, , .		0
310	Ultrafast probing of the complex refractive index in an active mid infrared quantum cascade laser. , 2008, , .		0
311	Advances in fiber delivery of ultrashort pulses at 800 nm. , 2008, , .		0
312	Terahertz semiconductor gain medium: Static properties and dynamic behavior. , 2008, , .		0
313	Terahertz waveguide emitters for investigation of subwavelength structures. , 2009, , .		0
314	Analysis of sub-picosecond mid-infrared pulse propagation in a quantum cascade laser below and above threshold. , 2009, , .		0
315	Online tuning of active photonic crystal quantum-cascade lasers. , 2009, , .		0
316	Far -infrared power detector with optical readout. , 2009, , .		0
317	INTRABAND AUGER EFFECT IN QUANTUM DOT STRUCTURES. International Journal of Modern Physics B, 2009, 23, 2872-2878.	2.0	0
318	Superposition of Positive and Negative Contributions to the Photocurrent Spectrum of InAs/InAlGaAs/InP Quantum Dot Infrared Photodetectors. ECS Transactions, 2009, 23, 521-526.	0.5	0
319	InGaAs/InGaAlAs/InAs/InP very selective quantum dot infrared photodetector for 12 Âµm. , 2009, , .		0
320	Intraband Auger effect in InAs/InGaAlAs/InP quantum dot structures. Journal of Physics: Conference Series, 2009, 167, 012001.	0.4	0
321	Polarization of THz radiation from laser generated plasma filaments. , 2009, , .		0
322	Terahertz Waveguide Emitters with Subwavelength Confinement. , 2009, , .		0
323	Monolithic photonic crystal quantum-cascade laser. Journal of Physics: Conference Series, 2009, 193, 012061.	0.4	0
324	Microdisk THz quantum-cascade lasers with super-conducting cavities. Proceedings of SPIE, 2010, , .	0.8	0

#	Article	IF	Citations
325	Fast near-field imaging of spectrally broad sources using layered metallic structures. Proceedings of SPIE, 2010, , .	0.8	0
326	Surface-emitting terahertz quantum cascade ring lasers. Proceedings of SPIE, 2010, , .	0.8	0
327	Ring resonator-based surface emitting quantum cascade lasers. Proceedings of SPIE, 2010, , .	0.8	0
328	THz time domain spectroscopy of surface electromagnetic waves. , 2010, , .		0
329	Ultrafast Spectroscopy As A Probe Of Light-Matter Interaction In A Midinfrared Quantum Cascade Laser. , 2010, , .		0
330	Electronic Structure Of InAs Quantum Dots In GaAsâ^•AlAs Superlattice. , 2010, , .		0
331	Electro-optic field and power detector of a new generation. , 2010, , .		0
332	Dual Sign Photocurrent in Quantum Dot Structures for Infrared Photodetection. ECS Transactions, 2010, 31, 207-211.	0.5	0
333	Terahertz spectroscopy of double metal quantum cascade structures. , 2010, , .		0
334	Terahertz resonant artificial interface layers. , 2010, , .		0
335	MBE Growth of GaAs Whiskers on Si Nanowires. , 2010, , .		0
336	THz photonic crystal quantum-cascade lasers: Frequency tuning during lasing operation. , 2010, , .		0
337	THz quantum-cascade lasers with superconducting waveguides. , 2010, , .		0
338	Terahertz quantum cascade laser in the InGaAs/GaAsSb material system. , 2010, , .		0
339	Gain photonic crystal terahertz quantum-cascade lasers. , 2010, , .		0
340	Time- and Frequency-Domain Imaging of Dynamics in Terahertz Meta-Atoms. , 2011, , .		0
341	Prospects of Heterodyning in Electro-Optic Detector. , 2011, , .		0
342	Time-domain spectroscopy of mid-infrared quantum cascade lasers. Semiconductor Science and Technology, 2011, 26, 014020.	2.0	0

#	Article	IF	Citations
343	Frequency and time mapping of terahertz meta-atoms. , 2011, , .		0
344	Progress on InGaAs/GaAsSb based terahertz quantum cascade lasers. , 2011, , .		0
345	Superconducting waveguides for terahertz quantum cascade lasers. , 2011, , .		0
346	New generation of the electro-optic terahertz detectors. , 2011, , .		0
347	Active photonic crystal terahertz laser operating in upper bands. , 2011, , .		0
348	THz time domain spectroscopy of coupled cavity THz quantum cascade lasers with metal-metal waveguide. , 2011, , .		0
349	Metasurfaces coupled to terahertz intersubband transitions. , 2011, , .		0
350	New concepts and geometries for graphene-based photodetectors. , 2012, , .		0
351	Intrinsic Speed Limit of Graphene-based Photodetectors. , 2012, , .		0
352	Fluorescence enhancements and spectral modifications near the cut-off frequency of plasmonic structure. Proceedings of SPIE, 2012, , .	0.8	0
353	Are Photons the Better Electrons?. Optik & Photonik, 2012, 7, 1-1.	0.2	0
354	Color Coded Optical Nano-Sectioning (COCOS) Reveals Focal Adhesion Dynamics. Biophysical Journal, 2012, 102, 6a.	0.5	0
355	Upper band operation of active photonic crystal terahertz lasers. , 2012, , .		0
356	Fabrication and characterization of terahertz emitting GaAs/AlGaAs micropillar quantum cascade structures in a double metal waveguide. , 2013, , .		0
357	Terahertz antireflection properties of sub-wavelength metallic double wire grid structures. , 2013, , .		0
358	Light-Matter Interaction in Terahertz Meta-atoms. , 2013, , .		0
359	Characterising few and single nano-antennas with rotating polarisation. , 2013, , .		0
360	Exceptional points in coupled microdisk THz quantum cascade lasers. , 2013, , .		0

#	Article	IF	Citations
361	Multi-cavity terahertz quantum cascade lasers. , 2013, , .		0
362	Nonlinear intersubband dynamics in quantum wells driven by intense few-cycle terahertz pulses. , 2013, , .		0
363	High power THz quantum cascade lasers based on novel materials and designs. , 2014, , .		0
364	High-power THz quantum cascade lasers. , 2015, , .		0
365	THz quantum cascade amplifier for remote sensing applications. , 2016, , .		0
366	Resonance tuning with a system of coupled dipoles. , 2016, , .		0
367	Terahertz cavities for frequency manipulations. , 2016, , .		0
368	THz quantum cascade lasers with low effective mass active region. , 2016, , .		0
369	THz circular patch resonators loaded with semiconductor heterostructures. , 2016, , .		0
370	Seeing laser scalpel: a novel monolithic high-power diode pumped Tm:YAG laser system at 2.02 Î¼m with double-clad fiber combined OCT. , 2017, , .		0
371	Acquisition of spectrally resolved multimode far-fields from terahertz quantum cascade lasers. , 2017, , .		0
372	Short pulse generation and high power emission of Quantum Cascade lasers. , 2017, , .		0
373	Inverse bandstructure engineering of alternative barrier materials for InGaAs-based terahertz quantum cascade lasers. , 2017, , .		0
374	Terahertz quantum cascade lasers frequency combs: Wide bandwidth operation and dual-comb on a chip. , 2017, , .		0
375	Low effective electron mass InGaAs/InAlAs for high power terahertz quantum cascade lasers. , 2017, , .		0
376	Plasmonic disk patch resonators coupled to semiconductor heterostructures in the terahertz regime. , 2017, , .		0
377	Interaction phenomena in a confined metamaterial system. , 2017, , .		0
378	Generating and Shaping Light in the THz Frequency Range. , 2018, , .		0

#	Article	IF	Citations
379	Terahertz Physics of Semiconductor Heterostructures. , 2018, , 19-32.		0
380	Dual-Lasing Channel of a High-Temperature Terahertz Quantum Cascade Laser. , 2019, , .		0
381	Laser Level Selection in Terahertz Quantum Cascade Lasers. , 2019, , .		0
382	Gain dynamics in THz QCLs and its implication for THz comb sources. , 2019, , .		0
383	Thermal Conductivity for Different Barrier Compositions of Terahertz Quantum Cascade Lasers. , 2019, , .		0
384	Intersubband Polaritons in Triple Barrier Resonant Tunneling Diodes. , 2019, , .		0
385	Ultrastrong coupling experiments with superradiant meta-atoms. , 2019, , .		0
386	Investigation of Electrical Transport in Semiconductor Heterostructure Devices Coupled Strongly to the Light Field. , 2019, , .		0
387	Optically Tunable Terahertz Quantum Cascade Random Lasers. , 2019, , .		0
388	Losses and Fundamental Interaction Properties of THz Meta-Atoms Strongly Coupled to Intersubband Transitions. , 2019, , .		0
389	Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. IEEE Photonics Journal, 2020, 12, 1-8.	2.0	0
390	Comb Formation In Ultrathin Terahertz Quantum Cascade Ring Lasers. , 2021, , .		0
391	Towards Holistic Control of THz Quantum Cascade Random Lasers. , 2021, , .		0
392	Terahertz Optical Machine Learning. , 2021, , .		0
393	All-Optical Control of Quantum Cascade Random Lasers Enhanced by Deep Learning. , 2021, , .		0
394	Synthetized Terahertz Frequency Combs. , 2021, , .		0
395	Terahertz Amplifier with Optical Threshold. , 2021, , .		0
396	Comb Operation in Terahertz Quantum Cascade Ring Lasers. , 2021, , .		0

#	Article	IF	Citations
397	Terahertz Quantum Cascade Amplifier with Optical Threshold. , 2021, , .		0
398	Excitation Dynamics beyond the Slowly-Varying Envelope Approximation. , 2000, , .		0
399	Coherent THz emission from optically pumped intersubband plasmons in parabolic quantum wells. , 2000, , .		0
400	Coherent THz emission from optically pumped intersubband plasmons in parabolic quantum wells. Springer Series in Chemical Physics, 2001, , 203-205.	0.2	0
401	Few-Cycle THz Spectroscopy of Semiconductor Quantum Structures. Springer Proceedings in Physics, 2001, , 579-582.	0.2	0
402	Excitation Dynamics beyond the Slowly-Varying Envelope Approximation. Springer Series in Chemical Physics, 2001, , 235-237.	0.2	0
403	Terahertz emission from semiconductor nanostructures. , 2001, , 115-124.		0
404	Population dynamics in quantum structures. , 2002, , .		0
405	Population dynamics in quantum structures. Springer Series in Chemical Physics, 2003, , 392-394.	0.2	0
406	Ultrafast intraband dynamics in quantum dots. , 2004, , .		0
407	Enhanced emission and detection techniques for Terahertz time-domain spectroscopy. , 2005, , .		0
408	TERAHERTZ TECHNOLOGY | Terahertz Physics of Semiconductor Heterostructures. , 2005, , 168-176.		0
409	Dual-Mode Microcavity THz Quantum-Cascade Lasers. AIP Conference Proceedings, 2007, , .	0.4	0
410	Design limitations in terahertz quantum cascade lasers caused by thermally activated absorption features. , 2007, , .		0
411	Optical Properties Of IR Quantum Dot Detectors With Miniband Tunnel Extraction. AIP Conference Proceedings, 2007, , .	0.4	0
412	Ultrafast Spectral Hole Burning Spectroscopy of Exciton Spin Relaxation in Quantum Dots. AIP Conference Proceedings, 2007, , .	0.4	0
413	Ultrawideband Mid-Infrared Spectroscopy of Semiconductor Nanostructures. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 599-621.	0.3	0
414	Controlled coupling of terahertz lasing modes in microdisk photonic molecules. , 2008, , .		0

#	Article	IF	Citations
415	Quasi-phase matched electro-optic terahertz detector. , 2009, , .		0
416	Femtosecond Dynamics of a Midinfrared Quantum Cascade Laser. , 2009, , .		0
417	Polarization of THz Radiation from Laser Generated Plasma Filaments. , 2009, , .		0
418	Metal-Metal THz Quantum Cascade Laser Gain and Loss Investigated by THz Time Domain Spectroscopy. , 2011, , .		0
419	Active photonic crystal terahertz laser operating in higher bands. , 2011, , .		0
420	Strong Terahertz Light-Matter Coupling Between Metamaterials and Intersubband Transitions. , 2012, , .		0
421	Resonant Metamaterial Detectors Utilizing THz Quantum-Cascade Lasers. , 2012, , .		0
422	Terahertz Quantum Cascade Lasers with Symmetric Active Regions. , 2012, , .		0
423	Towards Watt-Level Performance of Terahertz Quantum Cascade Lasers. , 2014, , .		0
424	Scaling of Micropillar Array Terahertz Lasers into the Subwavelength Regime. , 2014, , .		0
425	Strong Terahertz-Photocurrent Resonances in Miniband Superlattices at the Bloch Frequency. , 1996, , 135-138.		0
426	THZ Time-Domain Spectroscopy of Intersubband Plasmons. , 1998, , 173-180.		0
427	Driving Intersubband Transitions With THz Pulses. Springer Series in Chemical Physics, 1998, , 208-210.	0.2	0
428	Electrically Excited Terahertz Emission from Parabolic Quantum Wells. , 1998, , 181-186.		0
429	Amplification of broadband terahertz pulses in a quantum cascade heterostructure. , 2015, , .		0
430	High-energy diode side-pumped Er:YLF laser generating 100 mJ @ 100 Hz. , 2018, , .		0
431	Heterogeneous THz quantum cascade lasers: Gain recovery dynamics study. , 2019, , .		0
432	Organic Solid-State Laser for Silicon Nitride Photonic Integrated Circuits. , 2019, , .		0

#	Article	IF	Citations
433	Controlling and shaping the THz emission from Quantum Cascade Lasers. , 2020, , .		0