

Edmund H Linfield

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/915082/publications.pdf>

Version: 2024-02-01

606
papers

19,609
citations

17440

63
h-index

16650

123
g-index

616
all docs

616
docs citations

616
times ranked

10664
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz semiconductor-heterostructure laser. Nature, 2002, 417, 156-159.	27.8	2,539
2	The 2017 terahertz science and technology roadmap. Journal Physics D: Applied Physics, 2017, 50, 043001.	2.8	1,160
3	Terahertz pulse imaging in reflection geometry of human skin cancer and skin tissue. Physics in Medicine and Biology, 2002, 47, 3853-3863.	3.0	599
4	Terahertz spectroscopy of explosives and drugs. Materials Today, 2008, 11, 18-26.	14.2	447
5	Terahertz Pulse Imaging of ex vivo Basal Cell Carcinoma. Journal of Investigative Dermatology, 2003, 120, 72-78.	0.7	375
6	Electrically pumped photonic-crystal terahertz lasers controlled by boundary conditions. Nature, 2009, 457, 174-178.	27.8	334
7	Simulation of terahertz generation at semiconductor surfaces. Physical Review B, 2002, 65, .	3.2	308
8	Terahertz pulsed imaging of skin cancer in the time and frequency domain. Journal of Biological Physics, 2003, 29, 257-259.	1.5	274
9	Designer spoof surface plasmon structures collimate terahertz laser beams. Nature Materials, 2010, 9, 730-735.	27.5	260
10	Metal-Insulator Transition at $B=0$ in a Dilute Two Dimensional GaAs-AlGaAs Hole Gas. Physical Review Letters, 1998, 80, 1292-1295.	7.8	233
11	2.9THz quantum cascade lasers operating up to 70K in continuous wave. Applied Physics Letters, 2004, 85, 1674-1676.	3.3	228
12	Single-electron transport in a one-dimensional channel by high-frequency surface acoustic waves. Physical Review B, 1997, 56, 15180-15184.	3.2	219
13	Far-infrared ($\sim 87\mu\text{m}$) bound-to-continuum quantum-cascade lasers operating up to 90 K. Applied Physics Letters, 2003, 82, 3165-3167.	3.3	219
14	Low-threshold terahertz quantum-cascade lasers. Applied Physics Letters, 2002, 81, 1381-1383.	3.3	203
15	Room-temperature nine- μm -wavelength photodetectors and GHz-frequency heterodyne receivers. Nature, 2018, 556, 85-88.	27.8	197
16	Terahertz range quantum well infrared photodetector. Applied Physics Letters, 2004, 84, 475-477.	3.3	195
17	Terahertz quantum cascade lasers with copper metal-metal waveguides operating up to 178 K. Optics Express, 2008, 16, 3242.	3.4	194
18	Coherent sampling of active mode-locked terahertz quantum cascade lasers and frequency synthesis. Nature Photonics, 2011, 5, 306-313.	31.4	189

#	ARTICLE	IF	CITATIONS
19	Ultrabroadband terahertz radiation from low-temperature-grown GaAs photoconductive emitters. Applied Physics Letters, 2003, 83, 3117-3119.	3.3	180
20	Quantum Cascade Detectors. IEEE Journal of Quantum Electronics, 2009, 45, 1039-1052.	1.9	175
21	Temperature-dependent low-frequency vibrational spectra of purine and adenine. Applied Physics Letters, 2003, 82, 2350-2352.	3.3	170
22	Integrated Terahertz Graphene Modulator with 100% Modulation Depth. ACS Photonics, 2015, 2, 1559-1566.	6.6	158
23	Terahertz quantum cascade laser as local oscillator in a heterodyne receiver. Optics Express, 2005, 13, 5890.	3.4	156
24	Terahertz imaging through self-mixing in a quantum cascade laser. Optics Letters, 2011, 36, 2587.	3.3	149
25	Generation and detection of ultrabroadband terahertz radiation using photoconductive emitters and receivers. Applied Physics Letters, 2004, 85, 164-166.	3.3	144
26	Terahertz imaging using quantum cascade lasers—a review of systems and applications. Journal Physics D: Applied Physics, 2014, 47, 374008.	2.8	141
27	The development of terahertz sources and their applications. Physics in Medicine and Biology, 2002, 47, 3679-3689.	3.0	128
28	High resistivity annealed low-temperature GaAs with 100 fs lifetimes. Applied Physics Letters, 2003, 83, 4199-4201.	3.3	127
29	Linewidth and tuning characteristics of terahertz quantum cascade lasers. Optics Letters, 2004, 29, 575.	3.3	125
30	Surface emitting terahertz quantum cascade laser with a double-metal waveguide. Optics Express, 2006, 14, 11672.	3.4	121
31	Efficient power extraction in surface-emitting semiconductor lasers using graded photonic heterostructures. Nature Communications, 2012, 3, 952.	12.8	120
32	Three-dimensional imaging with a terahertz quantum cascade laser. Optics Express, 2006, 14, 2123.	3.4	117
33	Enhanced Shot Noise in Resonant Tunneling via Interacting Localized States. Physical Review Letters, 2003, 91, 136801.	7.8	106
34	Injection-locking of terahertz quantum cascade lasers up to 35GHz using RF amplitude modulation. Optics Express, 2010, 18, 20799.	3.4	103
35	Applications of terahertz (THz) technology to medical imaging. , 1999, 3828, 209.		100
36	Far-Infrared Spectroscopic Characterization of Explosives for Security Applications Using Broadband Terahertz Time-Domain Spectroscopy. Applied Spectroscopy, 2007, 61, 638-643.	2.2	99

#	ARTICLE	IF	CITATIONS
37	Enhanced coherent terahertz emission from indium arsenide in the presence of a magnetic field. Applied Physics Letters, 2000, 76, 2038-2040.	3.3	98
38	Terahertz time-domain spectroscopy of glucose and uric Acid. Journal of Biological Physics, 2003, 29, 117-121.	1.5	97
39	Weak Localization, Hole-Hole Interactions, and the "Metal-Insulator Transition in Two Dimensions. Physical Review Letters, 2000, 84, 2489-2492.	7.8	96
40	Terahertz saturable absorbers from liquid phase exfoliation of graphite. Nature Communications, 2017, 8, 15763.	12.8	93
41	Correlation Effects on the Coupled Plasmon Modes of a Double Quantum Well. Physical Review Letters, 1997, 78, 2204-2207.	7.8	92
42	Swept-frequency feedback interferometry using terahertz frequency QCLs: a method for imaging and materials analysis. Optics Express, 2013, 21, 22194.	3.4	91
43	Diameter-independent skyrmion Hall angle observed in chiral magnetic multilayers. Nature Communications, 2020, 11, 428.	12.8	89
44	Discrete Hall resistivity contribution from Néel skyrmions in multilayer nanodiscs. Nature Nanotechnology, 2018, 13, 1161-1166.	31.5	81
45	High power quantum cascade lasers operating at 87 and 130 μ m. Applied Physics Letters, 2004, 85, 3986-3988.	3.3	80
46	Terahertz Emission from Quantum Cascade Lasers in the Quantum Hall Regime: Evidence for Many Body Resonances and Localization Effects. Physical Review Letters, 2004, 93, 237403.	7.8	80
47	The use of Fourier-transform infrared spectroscopy for the quantitative determination of glucose concentration in whole blood. Physics in Medicine and Biology, 2003, 48, 2023-2032.	3.0	78
48	High-performance operation of single-mode terahertz quantum cascade lasers with metallic gratings. Applied Physics Letters, 2005, 87, 181101.	3.3	77
49	Tunneling between two-dimensional electron gases in a strong magnetic field. Physical Review B, 1994, 50, 15465-15468.	3.2	75
50	Magnetic-field-induced insulator-quantum Hall-insulator transition in a disordered two-dimensional electron gas. Journal of Physics Condensed Matter, 1994, 6, 4763-4770.	1.8	70
51	Magnetoresistance of a 2D Electron Gas Caused by Electron Interactions in the Transition from the Diffusive to the Ballistic Regime. Physical Review Letters, 2003, 90, 076802.	7.8	70
52	Broadband terahertz time-domain spectroscopy of drugs-of-abuse and the use of principal component analysis. Analyst, The, 2009, 134, 1658.	3.5	70
53	Phase-resolved terahertz self-detection near-field microscopy. Optics Express, 2018, 26, 18423.	3.4	70
54	Mechanisms of dynamic range limitations in GaAs ⁺ AlGaAs quantum-cascade lasers: Influence of injector doping. Applied Physics Letters, 2005, 86, 211117.	3.3	69

#	ARTICLE	IF	CITATIONS
55	Fully phase-stabilized quantum cascade laser frequency comb. <i>Nature Communications</i> , 2019, 10, 2938.	12.8	69
56	Spin splitting of one-dimensional subbands in high quality quantum wires at zero magnetic field. <i>Physical Review B</i> , 2000, 62, 15842-15850.	3.2	68
57	Transmittance of a tunable filter at terahertz frequencies. <i>Applied Physics Letters</i> , 2004, 85, 5173-5175.	3.3	68
58	Formation and manipulation of two-dimensional arrays of micron-scale particles in microfluidic systems by surface acoustic waves. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	68
59	Terahertz amplifier based on gain switching in a quantum cascade laser. <i>Nature Photonics</i> , 2009, 3, 715-719.	31.4	68
60	Measurement of the intrinsic linewidth of terahertz quantum cascade lasers using a near-infrared frequency comb. <i>Optics Express</i> , 2012, 20, 25654.	3.4	68
61	Single-mode operation of terahertz quantum cascade lasers with distributed feedback resonators. <i>Applied Physics Letters</i> , 2004, 84, 5446-5448.	3.3	67
62	Apertureless near-field terahertz imaging using the self-mixing effect in a quantum cascade laser. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	67
63	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700013.	8.7	67
64	Theory of magnetic-field enhancement of surface-field terahertz emission. <i>Journal of Applied Physics</i> , 2002, 91, 2104-2106.	2.5	66
65	High-performance continuous-wave operation of superlattice terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2003, 82, 1518-1520.	3.3	66
66	Tunable hot-carrier photodetection beyond the bandgap spectral limit. <i>Nature Photonics</i> , 2014, 8, 412-418.	31.4	66
67	Tunneling between parallel two-dimensional electron gases. <i>Physical Review B</i> , 1996, 54, 10614-10624.	3.2	65
68	Drude conductivity of highly doped GaAs at terahertz frequencies. <i>Journal of Applied Physics</i> , 2000, 87, 2382-2385.	2.5	64
69	Demonstration of a self-mixing displacement sensor based on terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	63
70	Resistance resonance induced by electron-hole hybridization in a strongly coupled InAs/GaSb/AlSb heterostructure. <i>Physical Review B</i> , 1998, 57, 11915-11918.	3.2	62
71	Phase-locking of a 25 THz quantum cascade laser to a frequency comb using a GaAs photomixer. <i>Optics Letters</i> , 2011, 36, 3969.	3.3	62
72	Terahertz pulsed imaging with 1.06 μ m laser excitation. <i>Applied Physics Letters</i> , 2003, 83, 4113-4115.	3.3	61

#	ARTICLE	IF	CITATIONS
73	Coherent terahertz photonics. Optics Express, 2013, 21, 22988.	3.4	61
74	Patch antenna terahertz photodetectors. Applied Physics Letters, 2015, 106, .	3.3	61
75	The fabrication of a back-gated high electron mobility transistor-a novel approach using MBE regrowth on an in situ ion beam patterned epilayer. Semiconductor Science and Technology, 1993, 8, 415-422.	2.0	60
76	Heterodyne mixing of two far-infrared quantum cascade lasers by use of a point-contact Schottky diode. Optics Letters, 2004, 29, 1632.	3.3	60
77	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.	3.1	59
78	Photonic quasi-crystal terahertz lasers. Nature Communications, 2014, 5, 5884.	12.8	59
79	A source of fresh hope. Nature Photonics, 2007, 1, 257-258.	31.4	58
80	Evolution of Fractal Patterns during a Classical-Quantum Transition. Physical Review Letters, 2001, 87, 036802.	7.8	57
81	Terahertz quantum-cascade lasers based on an interlaced photon-phonon cascade. Applied Physics Letters, 2004, 84, 1266-1268.	3.3	56
82	Absorption-sensitive diffuse reflection imaging of concealed powders using a terahertz quantum cascade laser. Optics Express, 2008, 16, 5997.	3.4	56
83	Terahertz frequency range band-stop filters. Applied Physics Letters, 2005, 86, 213503.	3.3	54
84	Generation of high-power terahertz pulses in a prism. Optics Letters, 2002, 27, 1935.	3.3	53
85	Excitation-density-dependent generation of broadband terahertz radiation in an asymmetrically excited photoconductive antenna. Optics Letters, 2007, 32, 2297.	3.3	52
86	Generating ultrafast pulses of light from quantum cascade lasers. Optica, 2015, 2, 944.	9.3	52
87	Increasing the sensitivity of terahertz split ring resonator metamaterials for dielectric sensing by localized substrate etching. Optics Express, 2019, 27, 23164.	3.4	52
88	Resonant tunneling between parallel, two-dimensional electron gases: A new approach to device fabrication using in situ ion beam lithography and molecular beam epitaxy growth. Applied Physics Letters, 1994, 64, 1827-1829.	3.3	51
89	Wave functions and Fermi surfaces of strongly coupled two-dimensional electron gases investigated by in-plane magnetoresistance. Physical Review B, 1994, 50, 4889-4892.	3.2	51
90	Terahertz vibrational absorption spectroscopy using microstrip-line waveguides. Applied Physics Letters, 2008, 93, 182904.	3.3	51

#	ARTICLE	IF	CITATIONS
91	Terahertz emission from metal-organic chemical vapor deposition grown Fe:InGaAs using 830 nm to 1.55- μ m excitation. Applied Physics Letters, 2010, 96, .	3.3	51
92	Weak localization in high-quality two-dimensional systems. Physical Review B, 2004, 70, .	3.2	49
93	The growth and physics of high mobility two-dimensional hole gases. Journal of Crystal Growth, 1991, 111, 318-322.	1.5	46
94	Highly resistive annealed low-temperature-grown InGaAs with sub-500fs carrier lifetimes. Applied Physics Letters, 2004, 85, 4965-4967.	3.3	46
95	Characterization of Crystalline Phase-Transformations in Theophylline by Time-Domain Terahertz Spectroscopy. Spectroscopy Letters, 2006, 39, 215-224.	1.0	46
96	Wide-ridge metal-metal terahertz quantum cascade lasers with high-order lateral mode suppression. Applied Physics Letters, 2008, 92, .	3.3	46
97	Self-Mixing Interferometry With Terahertz Quantum Cascade Lasers. IEEE Sensors Journal, 2013, 13, 37-43.	4.7	46
98	Magnetization studies of Landau level broadening in two-dimensional electron systems. Journal of Physics Condensed Matter, 1996, 8, 5189-5207.	1.8	45
99	High-intensity interminiband terahertz emission from chirped superlattices. Applied Physics Letters, 2002, 80, 1867-1869.	3.3	45
100	All-optoelectronic terahertz system using low-temperature-grown InGaAs photomixers. Optics Express, 2005, 13, 9639.	3.4	45
101	Coherent three-dimensional terahertz imaging through self-mixing in a quantum cascade laser. Applied Physics Letters, 2013, 103, .	3.3	45
102	Graded photonic crystal terahertz quantum cascade lasers. Applied Physics Letters, 2010, 96, .	3.3	44
103	Realization of quantum-dot cellular automata using semiconductor quantum dots. Superlattices and Microstructures, 2003, 34, 195-203.	3.1	43
104	Terahertz quantum cascade lasers—first demonstration and novel concepts. Semiconductor Science and Technology, 2005, 20, S222-S227.	2.0	42
105	Dual-frequency imaging using an electrically tunable terahertz quantum cascade laser. Optics Express, 2009, 17, 20631.	3.4	42
106	High-contrast coherent terahertz imaging of porcine tissue via swept-frequency feedback interferometry. Biomedical Optics Express, 2014, 5, 3981.	2.9	41
107	High Dynamic Range, Heterogeneous, Terahertz Quantum Cascade Lasers Featuring Thermally Tunable Frequency Comb Operation over a Broad Current Range. ACS Photonics, 2019, 6, 73-78.	6.6	41
108	Frictional drag between parallel two-dimensional electron gases in a perpendicular magnetic field. Journal of Physics Condensed Matter, 1996, 8, L557-L562.	1.8	40

#	ARTICLE	IF	CITATIONS
109	Quantum cascade laser based hybrid dual comb spectrometer. Communications Physics, 2020, 3, .	5.3	40
110	Simultaneous measurement of orthogonal components of polarization in a free-space propagating terahertz signal using electro-optic detection. Applied Physics Letters, 2011, 98, .	3.3	39
111	Determination of Glucose Concentration in Whole Blood using Fourier-Transform Infrared Spectroscopy. Journal of Biological Physics, 2003, 29, 129-133.	1.5	38
112	The MBE growth and optimization of high performance terahertz frequency quantum cascade lasers. Optics Express, 2015, 23, 2720.	3.4	38
113	Generalized Fano lineshapes reveal exceptional points in photonic molecules. Nature Communications, 2018, 9, 396.	12.8	37
114	Ultrastrong Light-Matter Coupling in Deeply Subwavelength THz LC Resonators. ACS Photonics, 2019, 6, 1207-1215.	6.6	37
115	Study of the carrier density dependence of the frictional drag between closely spaced two-dimensional electron gases. Semiconductor Science and Technology, 1995, 10, 1229-1232.	2.0	36
116	Terahertz inverse synthetic aperture radar imaging using self-mixing interferometry with a quantum cascade laser. Optics Letters, 2014, 39, 2629.	3.3	36
117	Resonant dipole antennas for continuous-wave terahertz photomixers. Applied Physics Letters, 2004, 85, 1622-1624.	3.3	35
118	Three-dimensional terahertz imaging using swept-frequency feedback interferometry with a quantum cascade laser. Optics Letters, 2015, 40, 994.	3.3	35
119	10 Gbit s ⁻¹ Free Space Data Transmission at 9.4 μ m Wavelength With Unipolar Quantum Optoelectronics. Laser and Photonics Reviews, 2022, 16, .	8.7	35
120	MBE growth of terahertz quantum cascade lasers. Journal of Crystal Growth, 2005, 278, 756-764.	1.5	33
121	Electrically tunable terahertz quantum-cascade laser with a heterogeneous active region. Applied Physics Letters, 2009, 95, 181101.	3.3	33
122	Terahertz-frequency photoconductive detectors fabricated from metal-organic chemical vapor deposition-grown Fe-doped InGaAs. Applied Physics Letters, 2011, 98, .	3.3	33
123	On-Chip Picosecond Pulse Detection and Generation Using Graphene Photoconductive Switches. Nano Letters, 2015, 15, 1591-1596.	9.1	33
124	Frequency-tunable continuous-wave random lasers at terahertz frequencies. Light: Science and Applications, 2019, 8, 43.	16.6	33
125	Long-wavelength infrared photovoltaic heterodyne receivers using patch-antenna quantum cascade detectors. Applied Physics Letters, 2020, 116, .	3.3	33
126	Back-gated split-gate transistor: A one-dimensional ballistic channel with variable Fermi energy. Applied Physics Letters, 1992, 60, 2782-2784.	3.3	32

#	ARTICLE	IF	CITATIONS
127	Electrostatic potential and quantum transport in a one-dimensional channel of an induced two-dimensional electron gas. <i>Journal of Applied Physics</i> , 2001, 89, 4993-5000.	2.5	32
128	Magnetic field in-plane quantization and tuning of population inversion in a THz superlattice quantum cascade laser. <i>Physical Review B</i> , 2003, 68, .	3.2	32
129	Terahertz generation from coherent optical phonons in a biased GaAs photoconductive emitter. <i>Physical Review B</i> , 2004, 69, .	3.2	32
130	Comparison of near infrared laser excitation wavelengths and its influence on the interrogation of seized drugsâ€ofâ€abuse by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1974-1983.	2.5	32
131	Efficient prediction of terahertz quantum cascade laser dynamics from steady-state simulations. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	32
132	Tunable and compact dispersion compensation of broadband THz quantum cascade laser frequency combs. <i>Optics Express</i> , 2019, 27, 20231.	3.4	32
133	Continuous-wave operation of terahertz quantum-cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , 2003, 39, 586-591.	1.9	31
134	Terahertz pulsed spectroscopic imaging using optimized binary masks. <i>Applied Physics Letters</i> , 2009, 95, 231112.	3.3	31
135	GaAs/Al _{0.15} Ga _{0.85} As terahertz quantum cascade lasers with double-phonon resonant depopulation operating up to 172 K. <i>Applied Physics Letters</i> , 2010, 97, 131111.	3.3	31
136	Millimeter wave photonics with terahertz semiconductor lasers. <i>Nature Communications</i> , 2021, 12, 1427.	12.8	31
137	Coherent imaging using laser feedback interferometry with pulsed-mode terahertz quantum cascade lasers. <i>Optics Express</i> , 2019, 27, 10221.	3.4	31
138	Metallic Behavior in Dilute Two-Dimensional Hole Systems. <i>Physical Review Letters</i> , 2001, 87, 126802.	7.8	30
139	Predictable surface emission patterns in terahertz photonic-crystal quantum cascade lasers. <i>Optics Express</i> , 2009, 17, 9491.	3.4	30
140	Calculation and Measurement of Terahertz Active Normal Modes in Crystalline PETN. <i>ChemPhysChem</i> , 2010, 11, 368-378.	2.1	30
141	Superlattice electronic devices as high-performance oscillators between 60â€“220 GHz. <i>Applied Physics Letters</i> , 2010, 96, 072101.	3.3	30
142	Laser-seeding dynamics with few-cycle pulses: Maxwell-Bloch finite-difference time-domain simulations of terahertz quantum cascade lasers. <i>Physical Review A</i> , 2013, 87, .	2.5	30
143	Coupled-cavity terahertz quantum cascade lasers for single mode operation. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	30
144	5-ps-long terahertz pulses from an active-mode-locked quantum cascade laser. <i>Optica</i> , 2017, 4, 168.	9.3	30

#	ARTICLE	IF	CITATIONS
145	Continuous-wave highly-efficient low-divergence terahertz wire lasers. Nature Communications, 2018, 9, 1122.	12.8	30
146	Distribution-function analysis of mesoscopic hopping conductance fluctuations. Physical Review B, 1996, 54, 2091-2100.	3.2	29
147	Single-mode surface-emitting concentric-circular-grating terahertz quantum cascade lasers. Applied Physics Letters, 2013, 102, 031119.	3.3	29
148	Ultra-subwavelength phase-sensitive Fano-imaging of localized photonic modes. Light: Science and Applications, 2015, 4, e326-e326.	16.6	29
149	Spontaneous emission control of single quantum dots by electromechanical tuning of a photonic crystal cavity. Applied Physics Letters, 2012, 101, 091106.	3.3	28
150	Gain recovery time in a terahertz quantum cascade laser. Applied Physics Letters, 2016, 108, .	3.3	28
151	Injection locking of a terahertz quantum cascade laser to a telecommunications wavelength frequency comb. Optica, 2017, 4, 1059.	9.3	28
152	Buried waveguides in terahertz quantum cascade lasers based on two-dimensional surface plasmon modes. Applied Physics Letters, 2005, 86, 071109.	3.3	27
153	Discrete Vernier tuning in terahertz quantum cascade lasers using coupled cavities. Optics Express, 2014, 22, 16595.	3.4	27
154	Laser Feedback Interferometry as a Tool for Analysis of Granular Materials at Terahertz Frequencies: Towards Imaging and Identification of Plastic Explosives. Sensors, 2016, 16, 352.	3.8	27
155	Direct observation of single-electron decay from an artificial nucleus. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 457-460.	2.7	26
156	Efficient coupling of single photons to ridge-waveguide photonic integrated circuits. Applied Physics Letters, 2013, 102, .	3.3	26
157	Terahertz Frequency Combs Exploiting an On-Chip, Solution-Processed, Graphene-Quantum Cascade Laser Coupled-Cavity. ACS Photonics, 2020, 7, 3489-3498.	6.6	26
158	High-speed modulation of a terahertz quantum cascade laser by coherent acoustic phonon pulses. Nature Communications, 2020, 11, 835.	12.8	26
159	Coulomb Blockade as a Noninvasive Probe of Local Density of States. Physical Review Letters, 1996, 77, 350-353.	7.8	25
160	Low-threshold quantum-cascade lasers at 35 THz ($\lambda = 85 \text{ }\mu\text{m}$). Optics Letters, 2003, 28, 810.	3.3	25
161	Mode-locking of a terahertz laser by direct phase synchronization. Optics Express, 2012, 20, 20855.	3.4	25
162	Spectroscopy of polycrystalline materials using thinned-substrate planar Goubau line at cryogenic temperatures. Lab on A Chip, 2013, 13, 4065.	6.0	25

#	ARTICLE	IF	CITATIONS
163	Electrically pumped semiconductor laser with monolithic control of circular polarization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5623-32.	7.1	25
164	Surface-emitting terahertz quantum cascade lasers with continuous-wave power in the tens of milliwatt range. Applied Physics Letters, 2014, 104, 091112.	3.3	25
165	Spin relaxation through Kondo scattering in Cu/Py lateral spin valves. Physical Review B, 2015, 92, .	3.2	25
166	Brillouin light scattering study of magnetic-element normal modes in a square artificial spin ice geometry. Journal Physics D: Applied Physics, 2017, 50, 015003.	2.8	25
167	Superferromagnetism and Domain-Wall Topologies in Artificial "Pinwheel" Spin Ice. ACS Nano, 2019, 13, 2213-2222.	14.6	25
168	Multiple-frequency terahertz pulsed sensing of dielectric films. Applied Physics Letters, 2006, 88, 071112.	3.3	24
169	Terahertz time domain spectroscopy of phonon-depopulation based quantum cascade lasers. Applied Physics Letters, 2009, 94, 251108.	3.3	24
170	Independent contacting to electron layers in a double quantum well system using Pd/Ge shallow ohmic contacts. Applied Physics Letters, 1994, 65, 851-853.	3.3	23
171	<title>Terahertz pulse imaging in reflection geometry of skin tissue using time-domain analysis techniques</title>. , 2002, 4625, 160.		23
172	Terahertz ambipolar dual-wavelength quantum cascade laser. Optics Express, 2009, 17, 19926.	3.4	23
173	Continuous-wave coherent imaging with terahertz quantum cascade lasers using electro-optic harmonic sampling. Applied Physics Letters, 2013, 102, .	3.3	23
174	Surface acoustic wave generation and detection using graphene interdigitated transducers on lithium niobate. Applied Physics Letters, 2014, 104, .	3.3	23
175	Tuning a microcavity-coupled terahertz laser. Applied Physics Letters, 2015, 107, 261108.	3.3	23
176	Fully tuneable, Purcell-enhanced solid-state quantum emitters. Applied Physics Letters, 2015, 107, .	3.3	23
177	Design of Broadband Non-Foster Circuits Based on Resonant Tunneling Diodes. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1398-1401.	4.0	23
178	Monolithic Semiconductor Lasers with Dynamically Tunable Linear-to-Circular Polarization. ACS Photonics, 2017, 4, 517-524.	6.6	23
179	Toward Chirality-Encoded Domain Wall Logic. Advanced Functional Materials, 2019, 29, 1807282.	14.9	23
180	High temperature metamaterial terahertz quantum detector. Applied Physics Letters, 2020, 117, .	3.3	23

#	ARTICLE	IF	CITATIONS
181	Fabrication of independent contacts to two closely spaced two-dimensional electron gases using molecular beam epitaxy regrowth and in situ focused ion beam lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12, 1293.	1.6	22
182	Vertical subwavelength mode confinement in terahertz and mid-infrared quantum cascade lasers. Applied Physics Letters, 2011, 98, .	3.3	22
183	On-Chip Terahertz-Frequency Measurements of Liquids. Analytical Chemistry, 2017, 89, 7981-7987.	6.5	22
184	On-chip terahertz Goubau-line waveguides with integrated photoconductive emitters and mode-discriminating detectors. Applied Physics Letters, 2009, 95, .	3.3	21
185	Measuring the sampling coherence of a terahertz quantum cascade laser. Optics Express, 2012, 20, 16662.	3.4	21
186	THz quantum cascade lasers operating on the radiative modes of a 2D photonic crystal. Optics Letters, 2014, 39, 3962.	3.3	21
187	Excitation, detection and electrostatic manipulation of terahertz-frequency range plasmons in a two-dimensional electron system. Scientific Reports, 2015, 5, 15420.	3.3	21
188	Free-space terahertz radiation from a LT-GaAs-on-quartz large-area photoconductive emitter. Optics Express, 2016, 24, 26986.	3.4	21
189	Generation of Terahertz Radiation from Fe-doped InGaAsP Using 800Ånm to 1550Ånm Pulsed Laser Excitation. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 415-425.	2.2	21
190	Silver-based surface plasmon waveguide for terahertz quantum cascade lasers. Optics Express, 2018, 26, 3814.	3.4	21
191	Quantum photonic integrated circuits based on tunable dots and tunable cavities. APL Photonics, 2018, 3, .	5.7	21
192	Absorption Engineering in an Ultrasubwavelength Quantum System. Nano Letters, 2020, 20, 4430-4436.	9.1	21
193	Compressibility studies of double electron and double hole gas systems. Applied Physics Letters, 1996, 68, 3323-3325.	3.3	20
194	Terahertz evanescent field microscopy of dielectric materials using on-chip waveguides. Applied Physics Letters, 2008, 92, 032903.	3.3	20
195	Low divergence single-mode surface-emitting concentric-circular-grating terahertz quantum cascade lasers. Optics Express, 2013, 21, 31872.	3.4	20
196	Measurement of the emission spectrum of a semiconductor laser using laser-feedback interferometry. Scientific Reports, 2017, 7, 7236.	3.3	20
197	Ultrafast terahertz detectors based on three-dimensional meta-atoms. Optica, 2017, 4, 1451.	9.3	20
198	Effects of magnetic field and optical fluence on terahertz emission in gallium arsenide. Physical Review B, 2001, 64, .	3.2	19

#	ARTICLE	IF	CITATIONS
199	Generation of Bessel beams using a terahertz quantum cascade laser. Optics Letters, 2009, 34, 1030.	3.3	19
200	Terahertz master-oscillator power-amplifier quantum cascade lasers. Applied Physics Letters, 2016, 109, .	3.3	19
201	Thickness dependence of spin wave excitations in an artificial square spin ice-like geometry. Journal of Applied Physics, 2017, 121, .	2.5	19
202	A Connected Array of Coherent Photoconductive Pulsed Sources to Generate mW Average Power in the Submillimeter Wavelength Band. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 221-236.	3.1	19
203	Ultrafast terahertz saturable absorbers using tailored intersubband polaritons. Nature Communications, 2020, 11, 4290.	12.8	19
204	Observation of optical feedback dynamics in single-mode terahertz quantum cascade lasers: Transient instabilities. Physical Review A, 2021, 103, .	2.5	19
205	Tunable broadband terahertz polarizer using graphene-metal hybrid metasurface. Optics Express, 2019, 27, 33768.	3.4	19
206	Large transconductances observed in an independently contacted coupled double quantum well. Applied Physics Letters, 1994, 64, 3018-3020.	3.3	18
207	Coherent control of cyclotron emission from a semiconductor using sub-picosecond electric field transients. Applied Physics Letters, 1997, 71, 2647-2649.	3.3	18
208	Population inversion by resonant magnetic confinement in terahertz quantum-cascade lasers. Applied Physics Letters, 2003, 83, 3453-3455.	3.3	18
209	Emission of collimated THz pulses from photo-excited semiconductors. Semiconductor Science and Technology, 2004, 19, S449-S451.	2.0	18
210	Application of terahertz quantum-cascade lasers to semiconductor cyclotron resonance. Optics Letters, 2004, 29, 122.	3.3	18
211	On-chip photoconductive excitation and detection of pulsed terahertz radiation at cryogenic temperatures. Applied Physics Letters, 2006, 88, 142103.	3.3	18
212	Broadband terahertz time-domain and Raman spectroscopy of explosives. , 2007, 6549, 40.		18
213	Distributed feedback terahertz frequency quantum cascade lasers with dual periodicity gratings. Applied Physics Letters, 2015, 106, .	3.3	18
214	Tailoring the Photon Hopping by Nearest-Neighbor and Next-Nearest-Neighbor Interaction in Photonic Arrays. ACS Photonics, 2015, 2, 565-571.	6.6	18
215	Diffraction-limited ultrabroadband terahertz spectroscopy. Scientific Reports, 2016, 6, 24811.	3.3	18
216	Monolithic echo-less photoconductive switches as a high-resolution detector for terahertz time-domain spectroscopy. Applied Physics Letters, 2017, 110, .	3.3	18

#	ARTICLE	IF	CITATIONS
217	Thermally and field-driven mobility of emergent magnetic charges in square artificial spin ice. Scientific Reports, 2019, 9, 15989.	3.3	18
218	Direct Measurement of the Band Structure of a One-Dimensional Surface Superlattice. Physical Review Letters, 1996, 76, 3802-3805.	7.8	17
219	Enhanced coherent terahertz emission from indium arsenide. Journal of Modern Optics, 2000, 47, 1847-1856.	1.3	17
220	On-chip pulsed terahertz systems and their applications. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 27, 557-569.	0.6	17
221	The growth and measurement of terahertz quantum cascade lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1859-1861.	2.7	17
222	Optimized surface-emitting photonic-crystal terahertz quantum cascade lasers with reduced resonator dimensions. Applied Physics Letters, 2010, 97, 131101.	3.3	17
223	Room temperature strong light-matter coupling in three dimensional terahertz meta-atoms. Applied Physics Letters, 2016, 108, .	3.3	17
224	Quasi-continuous frequency tunable terahertz quantum cascade lasers with coupled cavity and integrated photonic lattice. Optics Express, 2017, 25, 486.	3.4	17
225	High-performance GaAs/AlAs superlattice electronic devices in oscillators at frequencies 100–320 GHz. Applied Physics Letters, 2018, 112, .	3.3	17
226	Continuous Frequency Tuning with near Constant Output Power in Coupled Y-Branched Terahertz Quantum Cascade Lasers with Photonic Lattice. ACS Photonics, 2018, 5, 2912-2920.	6.6	17
227	Photoconductive arrays on insulating substrates for high-field terahertz generation. Optics Express, 2020, 28, 17219.	3.4	17
228	Terahertz quantum cascade lasers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 215-231.	3.4	16
229	Impurity bound-to-unbound terahertz sensors based on beryllium and silicon δ -doped GaAs/AlAs multiple quantum wells. Applied Physics Letters, 2008, 92, 053503.	3.3	16
230	High order sideband generation in terahertz quantum cascade lasers. Applied Physics Letters, 2013, 102, .	3.3	16
231	Temperature-dependent modulated reflectance of InAs/InGaAs/GaAs quantum dots-in-a-well infrared photodetectors. Journal of Applied Physics, 2015, 117, .	2.5	16
232	Model for a pulsed terahertz quantum cascade laser under optical feedback. Optics Express, 2016, 24, 20554.	3.4	16
233	Infinite-Period Density-Matrix Model for Terahertz-Frequency Quantum Cascade Lasers. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 368-377.	3.1	16
234	Ultrafast switch-on dynamics of frequency-tuneable semiconductor lasers. Nature Communications, 2018, 9, 3076.	12.8	16

#	ARTICLE	IF	CITATIONS
235	Highly efficient surface-emitting semiconductor lasers exploiting quasi-crystalline distributed feedback photonic patterns. <i>Light: Science and Applications</i> , 2020, 9, 54.	16.6	16
236	Self-Induced Phase Locking of Terahertz Frequency Combs in a Phase-Sensitive Hyperspectral Near-Field Nanoscope. <i>Advanced Science</i> , 2022, 9, .	11.2	16
237	Applying broadband terahertz time-domain spectroscopy to the analysis of crystalline proteins: a dehydration study. <i>Journal of Applied Crystallography</i> , 2011, 44, 129-133.	4.5	15
238	Multi-spectral terahertz sensing: proposal for a coupled-cavity quantum cascade laser based optical feedback interferometer. <i>Optics Express</i> , 2017, 25, 10153.	3.4	15
239	Ultrafast two-dimensional field spectroscopy of terahertz intersubband saturable absorbers. <i>Optics Express</i> , 2019, 27, 2248.	3.4	15
240	Detection sensitivity of laser feedback interferometry using a terahertz quantum cascade laser. <i>Optics Letters</i> , 2019, 44, 3314.	3.3	15
241	Three key questions on fractal conductance fluctuations: Dynamics, quantization, and coherence. <i>Physical Review B</i> , 2004, 70, .	3.2	14
242	Advances in THz quantum cascade lasers: fulfilling the application potential. , 2005, 5738, 146.		14
243	Radiative recombination spectra of p-type δ -doped GaAs/AlAs multiple quantum wells near the Mott transition. <i>Journal of Applied Physics</i> , 2008, 103, 123108.	2.5	14
244	Effect of transverse mode structure on the far field pattern of metal-metal terahertz quantum cascade lasers. <i>Journal of Applied Physics</i> , 2008, 104, 124513.	2.5	14
245	On-chip terahertz spectroscopic techniques for measuring mesoscopic quantum systems. <i>Review of Scientific Instruments</i> , 2013, 84, 085101.	1.3	14
246	Terahertz quantum cascade lasers with thin resonant-phonon depopulation active regions and surface-plasmon waveguides. <i>Journal of Applied Physics</i> , 2013, 113, 113110.	2.5	14
247	Effect of Molecular Size and Particle Shape on the Terahertz Absorption of a Homologous Series of Tetraalkylammonium Salts. <i>Analytical Chemistry</i> , 2013, 85, 7926-7934.	6.5	14
248	Deep-subwavelength imaging of both electric and magnetic localized optical fields by plasmonic campanile nanoantenna. <i>Scientific Reports</i> , 2015, 5, 9606.	3.3	14
249	Phase-locked arrays of surface-emitting graded-photonic-heterostructure terahertz semiconductor lasers. <i>Optics Express</i> , 2015, 23, 6915.	3.4	14
250	Coherent terahertz microscopy of modal field distributions in micro-resonators. <i>APL Photonics</i> , 2021, 6, .	5.7	14
251	Selective area two-dimensional electron gas structures and in situ ohmic contacts patterned by focused ion beam doping during molecular beam epitaxial growth. <i>Journal of Crystal Growth</i> , 1993, 127, 732-736.	1.5	13
252	Electron transport across a wide AlGaAs barrier. <i>Journal of Applied Physics</i> , 1993, 74, 5606-5621.	2.5	13

#	ARTICLE	IF	CITATIONS
253	Resonant resistance enhancement in double-quantum-well GaAs-AlxGa1-xAs heterostructures. Physical Review B, 1994, 50, 8024-8027.	3.2	13
254	Localisation and the metal-insulator transition in two dimensions. Physica B: Condensed Matter, 2001, 296, 21-31.	2.7	13
255	Dependence of fractal conductance fluctuations on soft-wall profile in a double-layer semiconductor billiard. Applied Physics Letters, 2002, 80, 4381-4383.	3.3	13
256	Electron Assisted Variable Range Hopping in Strongly Correlated 2D Electron Systems. Physica Status Solidi (B): Basic Research, 2002, 230, 211-216.	1.5	13
257	Impact of disorder on frequency scaling in the integer quantum Hall effect. Physical Review B, 2011, 84, .	3.2	13
258	Low temperature near-field scanning optical microscopy on infrared and terahertz photonic-crystal quantum cascade lasers. Applied Physics Letters, 2011, 98, .	3.3	13
259	Ballistic rectification of vortex domain wall chirality at nanowire corners. Applied Physics Letters, 2015, 107, .	3.3	13
260	Spin-orbit interaction in InAs/GaSb heterostructures quantified by weak antilocalization. Physical Review B, 2017, 95, .	3.2	13
261	Effect of FePd alloy composition on the dynamics of artificial spin ice. Scientific Reports, 2018, 8, 4750.	3.3	13
262	Nanospectroscopy of a single patch antenna strongly coupled to a mid-infrared intersubband transition in a quantum well. Applied Physics Letters, 2020, 117, .	3.3	13
263	External cavity terahertz quantum cascade laser with a metamaterial/graphene optoelectronic mirror. Applied Physics Letters, 2020, 117, .	3.3	13
264	Dopant patterning of MBE GaAs during growth by very low energy focussed tin ion beam deposition. Surface Science, 1992, 267, 69-73.	1.9	12
265	Transition from one- to two-subband occupancy in the 2DEG of back-gated modulation-doped GaAs-AlxGa1-xAs heterostructures. Physical Review B, 1995, 51, 17600-17604.	3.2	12
266	Detection of electron scattering in an isolated double quantum dot system. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 830-832.	2.7	12
267	Near-Field Analysis of Terahertz Pulse Generation From Photo-Excited Charge Density Gradients. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 260-267.	3.1	12
268	Mode Selection and Tuning Mechanisms in Coupled-Cavity Terahertz Quantum Cascade Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-12.	2.9	12
269	Two-dimensional coherent spectroscopy of a THz quantum cascade laser: observation of multiple harmonics. Optics Express, 2017, 25, 21753.	3.4	12
270	Norton Equivalent Circuit for Pulsed Photoconductive Antennas-Part II: Experimental Validation. IEEE Transactions on Antennas and Propagation, 2018, 66, 1646-1659.	5.1	12

#	ARTICLE	IF	CITATIONS
271	Gas spectroscopy with integrated frequency monitoring through self-mixing in a terahertz quantum-cascade laser. Optics Letters, 2018, 43, 2225.	3.3	12
272	Mixing Properties of Room Temperature Patch Antenna Receivers in a Mid-Infrared (8-9 μm) Heterodyne System. Laser and Photonics Reviews, 2020, 14, 1900207.	8.7	12
273	Spin-valve Josephson junctions with perpendicular magnetic anisotropy for cryogenic memory. Applied Physics Letters, 2020, 116, 022601.	3.3	12
274	Lateral transport studies of coupled electron gases. Semiconductor Science and Technology, 1996, 11, 703-711.	2.0	11
275	Effect of finite quantum-well width on the compressibility of a two-dimensional electron gas. Physical Review B, 1997, 55, 6715-6718.	3.2	11
276	Impurity-related photoluminescence line shape asymmetry in GaAs/AlAs multiple quantum wells: Fractional-dimensional space approach. Journal of Applied Physics, 2010, 107, .	2.5	11
277	In-assisted desorption of native GaAs surface oxides. Applied Physics Letters, 2011, 99, 061910.	3.3	11
278	Photovoltaic infrared detection with p-type graded barrier heterostructures. Journal of Applied Physics, 2012, 111, .	2.5	11
279	Polarized photoreflectance and photoluminescence spectroscopy of InGaAs/GaAs quantum rods grown with As ₂ and As ₄ sources. Nanoscale Research Letters, 2012, 7, 609.	5.7	11
280	Transient Analysis of THz-QCL Pulses Using NbN and YBCO Superconducting Detectors. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 172-179.	3.1	11
281	Planar integrated metasurfaces for highly-collimated terahertz quantum cascade lasers. Scientific Reports, 2014, 4, 7083.	3.3	11
282	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. Optics Express, 2016, 24, 2174.	3.4	11
283	Heisenberg pseudo-exchange and emergent anisotropies in field-driven pinwheel artificial spin ice. Physical Review B, 2019, 100, .	3.2	11
284	The effect of low-energy Ga ions on GaAs/AlGaAs heterostructures. Semiconductor Science and Technology, 1990, 5, 385-390.	2.0	10
285	The growth and characterisation of back-gated high mobility two-dimensional electron gas structures. Journal of Crystal Growth, 1991, 111, 300-304.	1.5	10
286	The fabrication of back-gated high electron mobility transistors – a novel approach using MBE regrowth on an in situ ion beam patterned epilayer. Journal of Crystal Growth, 1993, 127, 41-45.	1.5	10
287	Interaction correction to the longitudinal conductivity and Hall resistivity in high-quality two-dimensional GaAs electron and hole systems. Physical Review B, 2005, 72, .	3.2	10
288	Observation of far-infrared emission from excited cytosine molecules. Applied Physics Letters, 2005, 87, 011105.	3.3	10

#	ARTICLE	IF	CITATIONS
289	Analysis of drugs-of-abuse and explosives using terahertz time-domain and Raman spectroscopy. , 2006, , .		10
290	Stabilization and mode locking of terahertz quantum cascade lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 8501011-8501011.	2.9	10
291	Multimode, Aperiodic Terahertz Surface-Emitting Laser Resonators. Photonics, 2016, 3, 32.	2.0	10
292	Origin of terminal voltage variations due to self-mixing in terahertz frequency quantum cascade lasers. Optics Express, 2016, 24, 21948.	3.4	10
293	Extraction-controlled terahertz frequency quantum cascade lasers with a diagonal LO-phonon extraction and injection stage. Optics Express, 2016, 24, 28583.	3.4	10
294	Generation of continuous wave terahertz frequency radiation from metal-organic chemical vapour deposition grown Fe-doped InGaAs and InGaAsP. Journal of Applied Physics, 2016, 119, 153103.	2.5	10
295	Time-domain measurement of terahertz frequency magnetoplasmon resonances in a two-dimensional electron system by the direct injection of picosecond pulsed currents. Applied Physics Letters, 2016, 108, .	3.3	10
296	Frequency Tunability and Spectral Control in Terahertz Quantum Cascade Lasers With Phase-Adjusted Finite-Defect-Site Photonic Lattices. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 360-367.	3.1	10
297	Dark current and photoresponse characteristics of extended wavelength infrared photodetectors. Journal of Applied Physics, 2017, 122, 024501.	2.5	10
298	Noise characterization of patch antenna THz photodetectors. Applied Physics Letters, 2018, 113, .	3.3	10
299	Giant optical nonlinearity interferences in quantum structures. Science Advances, 2019, 5, eaaw7554.	10.3	10
300	Gas spectroscopy through multimode self-mixing in a double-metal terahertz quantum cascade laser. Optics Letters, 2018, 43, 5933.	3.3	10
301	Field-resolved high-order sub-cycle nonlinearities in a terahertz semiconductor laser. Light: Science and Applications, 2021, 10, 246.	16.6	10
302	Transport properties of a wide-quantum-well velocity modulation transistor structure. Semiconductor Science and Technology, 1994, 9, 1744-1747.	2.0	9
303	One-dimensional ballistic channel with a triple-barrier longitudinal potential: Measurement and model. Physical Review B, 1994, 49, 14078-14080.	3.2	9
304	Spectral Properties of THz Quantum-Cascade Lasers: Frequency Noise, Phase-Locking and Absolute Frequency Measurement. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 342-356.	2.2	9
305	Narrow-band injection seeding of a terahertz frequency quantum cascade laser: Selection and suppression of longitudinal modes. Applied Physics Letters, 2014, 105, 111113.	3.3	9
306	THz waveguide adapters for efficient radiation out-coupling from double metal THz QCLs. Optics Express, 2015, 23, 5190.	3.4	9

#	ARTICLE	IF	CITATIONS
307	Active phase-nulling of the self-mixing phase in a terahertz frequency quantum cascade laser. Optics Letters, 2015, 40, 950.	3.3	9
308	Extended wavelength infrared photodetectors. Optical Engineering, 2017, 56, 091605.	1.0	9
309	Determining Ethanol Content of Liquid Solutions Using Laser Feedback Interferometry with a Terahertz Quantum Cascade Laser. , 2018, 2, 1-4.		9
310	Terahertz master-oscillator power-amplifier quantum cascade laser with a grating coupler of extremely low reflectivity. Optics Express, 2018, 26, 1942.	3.4	9
311	Effect of ion energy on Sn donor activation and defect production in molecular beam epitaxy GaAs doped with Sn ions during growth. Journal of Applied Physics, 1993, 74, 4375-4381.	2.5	8
312	Magnetic field studies of Coulomb drag in a coupled double quantum well system. Semiconductor Science and Technology, 1997, 12, 309-313.	2.0	8
313	A simple lateral transport device of strongly interacting electron and hole layers. Applied Physics Letters, 1999, 74, 1603-1605.	3.3	8
314	Electrically active defect centers induced by Ga ⁺ focused ion beam irradiation of GaAs(100). Applied Physics Letters, 1999, 74, 576-578.	3.3	8
315	Interactions in 2D electron and hole systems in the intermediate and ballistic regimes. Journal of Physics A, 2003, 36, 9249-9262.	1.6	8
316	Complementary spectroscopic studies of materials of security interest. , 2006, 6402, 74.		8
317	High-performance millimeter-wave superlattice electronic devices. Applied Physics Letters, 2008, 93, 182105.	3.3	8
318	Novel Molecular Resist for EUV and Electron Beam Lithography. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2015, 28, 537-540.	0.3	8
319	Wideband Electrically Controlled Vernier Frequency Tunable Terahertz Quantum Cascade Laser. ACS Photonics, 2020, 7, 765-773.	6.6	8
320	Equilibrium tunneling between two-dimensional and quasi-one-dimensional electron gases in devices fabricated by in situ focused ion beam lithography. Applied Physics Letters, 1996, 68, 826-828.	3.3	7
321	Low-threshold superlattice quantum cascade laser emitting at $\lambda = 103 \frac{1}{4} \mu\text{m}$ and operating up to 70 K in continuous wave. , 2004, 5354, 129.		7
322	Shot noise in mesoscopic transport through localised states. Physica Status Solidi (B): Basic Research, 2004, 241, 26-32.	1.5	7
323	The fabrication of embedded co-planar electrodes using a self-assembled monolayer molecular resist. Nanotechnology, 2009, 20, 155304.	2.6	7
324	Non-universality of scaling exponents in quantum Hall transitions. Journal of Physics Condensed Matter, 2014, 26, 475801.	1.8	7

#	ARTICLE	IF	CITATIONS
325	Near-field speckle imaging of light localization in disordered photonic systems. Applied Physics Letters, 2017, 110, .	3.3	7
326	Monolithic Patch-Antenna THz Lasers with Extremely Low Beam Divergence and Polarization Control. ACS Photonics, 2021, 8, 412-417.	6.6	7
327	All-Electronic Phase-Resolved THz Microscopy Using the Self-Mixing Effect in a Semiconductor Laser. ACS Photonics, 2021, 8, 1001-1006.	6.6	7
328	Femtosecond Broadband Frequency Switch of Terahertz Three-Dimensional Meta-Atoms. ACS Photonics, 2021, 8, 1097-1102.	6.6	7
329	Terahertz photonic integrated circuit for frequency tuning and power modulation. Optics Express, 2020, 28, 4374.	3.4	7
330	A direct measurement of the effects of Fermi energy oscillations in quasi-1D systems. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 518-521.	2.7	6
331	Terahertz interminiband emission and magneto-transport measurements from a quantum cascade chirped superlattice. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 854-857.	2.7	6
332	Effects of using As ₂ and As ₄ on the optical properties of InGaAs quantum rods grown by molecular beam epitaxy. Journal of Applied Physics, 2010, 108, 103522.	2.5	6
333	Measurement and analysis of the diffuse reflectance of powdered samples at terahertz frequencies using a quantum cascade laser. Journal of Chemical Physics, 2011, 134, 134304.	3.0	6
334	Resonant-phonon depopulation terahertz quantum cascade lasers and their application in spectroscopic imaging. Semiconductor Science and Technology, 2012, 27, 094004.	2.0	6
335	Direct observation of spin-orbit splitting and phonon-assisted optical transitions in the valence band by internal photoemission spectroscopy. Physical Review B, 2013, 88, .	3.2	6
336	Wavelength-extended photovoltaic infrared photodetectors. Applied Physics Letters, 2014, 104, .	3.3	6
337	Frequency and amplitude modulation of ultra-compact terahertz quantum cascade lasers using an integrated avalanche diode oscillator. Scientific Reports, 2016, 6, 23053.	3.3	6
338	The Development of a Semtex-H Simulant for Terahertz Spectroscopy. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 325-338.	2.2	6
339	Magnetization dynamics of weakly interacting sub-100 nm square artificial spin ices. Scientific Reports, 2019, 9, 19967.	3.3	6
340	Compact and sensitive heterodyne receiver at 2.7 THz exploiting a quasi-optical HEB-QCL coupling scheme. Applied Physics Letters, 2019, 115, .	3.3	6
341	Chip-Scale Terahertz Frequency Combs through Integrated Intersubband Polariton Bleaching. Laser and Photonics Reviews, 2021, 15, 2000575.	8.7	6
342	Terahertz quantum cascade laser under optical feedback: effects of laser self-pulsations on self-mixing signals. Optics Express, 2021, 29, 39885.	3.4	6

#	ARTICLE	IF	CITATIONS
343	Terahertz imaging with self-pulsations in quantum cascade lasers under optical feedback. APL Photonics, 2021, 6, 091301.	5.7	6
344	Hot-electron transport across a wide AlGaAs barrier containing quantum wells. Semiconductor Science and Technology, 1994, 9, 595-598.	2.0	5
345	Resonant coupling effects observed in independently contacted triple-quantum-well structures. Journal of Physics Condensed Matter, 1995, 7, L585-L591.	1.8	5
346	Exchange- and correlation-induced charge transfer observed in independently contacted triple-quantum-well structures. Physical Review B, 1996, 53, 15443-15446.	3.2	5
347	Probing the Fermi surfaces of coupled double quantum wells in the presence of an in-plane magnetic field. Journal of Physics Condensed Matter, 1997, 9, 1079-1094.	1.8	5
348	Formation of narrow channels using split back-gates defined by in situ focused ion beam lithography. Semiconductor Science and Technology, 1997, 12, 137-139.	2.0	5
349	Scanning noninvasive voltage probe operating at 4.2 K. Review of Scientific Instruments, 2001, 72, 2100-2105.	1.3	5
350	Photoreflectance and photoluminescence studies of epitaxial InGaAs quantum rods grown with As ₂ and As ₄ sources. Journal of Applied Physics, 2011, 109, .	2.5	5
351	Integrated injection seeded terahertz source and amplifier for time-domain spectroscopy. Optics Letters, 2012, 37, 731.	3.3	5
352	Light emission lifetimes in p-type δ -doped GaAs/AlAs multiple quantum wells near the Mott transition. Journal of Applied Physics, 2012, 112, 043105.	2.5	5
353	Time-resolved measurement of pulse-to-pulse heating effects in a terahertz quantum cascade laser using an NbN superconducting detector. Applied Physics Letters, 2013, 103, .	3.3	5
354	Low-frequency noise properties of beryllium δ -doped GaAs/AlAs quantum wells near the Mott transition. Journal of Applied Physics, 2013, 113, 083707.	2.5	5
355	Effect of a current blocking barrier on a 2×10^{14} cm ⁻² p-GaAs/AlGaAs heterojunction infrared detector. Applied Physics Letters, 2016, 108, 201105.	3.3	5
356	Patch antenna microcavity terahertz sources with enhanced emission. Applied Physics Letters, 2016, 109, .	3.3	5
357	Effects of Barrier Energy Offset and Gradient in Extended Wavelength Infrared Detectors. , 2018, 2, 1-4.		5
358	Optomechanical response with nanometer resolution in the self-mixing signal of a terahertz quantum cascade laser. Optics Letters, 2019, 44, 5663.	3.3	5
359	Optical features of InAs quantum dots-in-a-well structures. Lithuanian Journal of Physics, 2014, 54, 54-57.	0.4	5
360	Fabrication of a novel split-backgate transistor by in situ focused ion-beam lithography and molecular-beam epitaxial regrowth. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1993, 11, 2493.	1.6	4

#	ARTICLE	IF	CITATIONS
361	Negative transconductance in parallel conducting systems controlled by device geometry and magnetic field. Semiconductor Science and Technology, 1996, 11, 483-488.	2.0	4
362	In-situ focused ion beam implantation for the fabrication of a hot electron transistor oscillator structure. Semiconductor Science and Technology, 1996, 11, L135-L138.	2.0	4
363	Interaction between surface acoustic waves and resonant tunneling structures in GaAs. Journal of Applied Physics, 1999, 86, 2917-2919.	2.5	4
364	Nonlinear interaction between surface acoustic waves and electrons in GaAs resonant-tunneling structures. Physical Review B, 2000, 62, 6948-6951.	3.2	4
365	Time-domain terahertz spectroscopy and applications on drugs and explosives. , 2007, , .		4
366	Dopant Migration-Induced Interface Dipole Effect in n-Doped GaAs/AlGaAs Terahertz Detectors. IEEE Electron Device Letters, 2008, 29, 1090-1093.	3.9	4
367	Increasing the bandwidth of planar on-chip THz devices for spectroscopic applications. , 2011, , .		4
368	Coupling of single quantum dots to photonic crystal cavities investigated by low-temperature scanning near-field optical microscopy. Physical Review B, 2013, 88, .	3.2	4
369	Diffuse-Reflectance Spectroscopy Using a Frequency-Switchable Terahertz Quantum Cascade Laser. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 341-347.	3.1	4
370	Confinement of picosecond timescale current pulses by tapered coplanar waveguides. Applied Physics Letters, 2018, 112, .	3.3	4
371	Deconvolution of Rashba and Dresselhaus spin-orbit coupling by crystal axis dependent measurements of coupled InAs/GaSb quantum wells. Physical Review B, 2018, 98, .	3.2	4
372	Full-wave modelling of terahertz frequency plasmons in two-dimensional electron systems. Journal Physics D: Applied Physics, 2019, 52, 215101.	2.8	4
373	Terahertz magnetoplasmon resonances in coupled cavities formed in a gated two-dimensional electron gas. Optics Express, 2021, 29, 12958.	3.4	4
374	Probing temperature- and solvent-dependent protein dynamics using terahertz time-domain spectroscopy. Journal of Applied Crystallography, 2014, 47, 146-153.	4.5	4
375	Temperature studies of the tunnelling between parallel two-dimensional electron gases. Solid-State Electronics, 1996, 40, 413-415.	1.4	3
376	Spin-valve effects in a two-dimensional electron gas system. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 718-721.	2.7	3
377	Metallic behaviour and localisation in 2D GaAs hole systems. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 11, 161-166.	2.7	3
378	Tunneling Spectroscopy of a Two-Dimensionally Periodic Electron System. Physical Review Letters, 2002, 89, 146803.	7.8	3

#	ARTICLE	IF	CITATIONS
379	Light-induced Difference Terahertz Spectroscopy. Journal of Biological Physics, 2003, 29, 135-139.	1.5	3
380	Terahertz quantum cascade lasers. , 2003, , .		3
381	Shot noise as a probe of electron transport via localised states in sub-micrometer barriers. Physica Status Solidi (B): Basic Research, 2005, 242, 1229-1232.	1.5	3
382	Monolithic integration of low-temperature-grown GaAs with a two-dimensional electron gas. Semiconductor Science and Technology, 2007, 22, 811-813.	2.0	3
383	Performance improvements of a split-off band infra-red detector using a graded barrier. Journal of Applied Physics, 2014, 115, 063105.	2.5	3
384	Optical sideband generation up to room temperature with mid-infrared quantum cascade lasers. Optics Express, 2015, 23, 4012.	3.4	3
385	Improving the Out-Coupling of a Metal-Metal Terahertz Frequency Quantum Cascade Laser Through Integration of a Hybrid Mode Section into the Waveguide. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 426-434.	2.2	3
386	Mid-infrared photodetectors operating over an extended wavelength range up to 90â€™K. Optics Letters, 2016, 41, 285.	3.3	3
387	A high electron mobility phonotransistor. Communications Physics, 2018, 1, .	5.3	3
388	Analysis of Barrier Parameters on the Extended Threshold Wavelength of Infrared Detectors. IEEE Photonics Technology Letters, 2018, 30, 1617-1620.	2.5	3
389	Reduced Dark Current With a Specific Detectivity Advantage in Extended Threshold Wavelength Infrared Detector. , 2019, 3, 1-4.		3
390	Exact frequency and phase control of a terahertz laser. Optica, 2020, 7, 1143.	9.3	3
391	Transport properties of a two-dimensional electron gas closely separated from an underlying n+ GaAs layer: The fabrication of independent ohmic contacts using molecular beam epitaxial regrowth and in situ focused ion beams. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B. Microelectronics Processing and Phenomena, 1993, 11, 982.	1.6	2
392	Proton isolation of Si δ -doped GaAs. Electronics Letters, 1994, 30, 1359-1360.	1.0	2
393	Tunnelling between two-dimensional electron gases up to 25 T. Physica B: Condensed Matter, 1995, 211, 430-432.	2.7	2
394	Localisation in Strongly Interacting 2D GaAs Systems. Physica Status Solidi (B): Basic Research, 2002, 230, 81-87.	1.5	2
395	Investigation of injector doping density on intersubband terahertz electro-luminescence from GaAs δ -AlGaAs quantum cascade structures. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 357-360.	2.7	2
396	<title>Formation of low energy tails in silicon δ -doped GaAs/AlAs multiple quantum wells</title>. , 2006, , .		2

#	ARTICLE	IF	CITATIONS
397	Effect of ion implantation on quantum well infrared photodetectors. Infrared Physics and Technology, 2007, 50, 106-112.	2.9	2
398	THz generation using 800 to 1550 nm excitation of photoconductors. , 2009, , .		2
399	On-chip THz generation and detection at milli-Kelvin temperatures for the study of ultrafast phenomena in confined semiconductor systems. , 2012, , .		2
400	LOCUS: Low cost upper atmosphere sounder. Proceedings of SPIE, 2013, , .	0.8	2
401	THz-TDS analysis of hidden explosives for homeland security scenarios. , 2013, , .		2
402	The quantum percolation model of the scaling theory of the quantum Hall effect: a unifying model for plateau-to-plateau transitions. Journal of Physics: Conference Series, 2013, 456, 012007.	0.4	2
403	Mapping the distribution of photo-currents responsible for generation of terahertz pulses at semiconductor surfaces. , 2014, , .		2
404	Observation of spin-wave Doppler shift in Co90Fe10/Ru micro-strips for evaluating spin polarization. Applied Physics Letters, 2016, 109, 112405.	3.3	2
405	Multilayer extraction of complex refractive index in broadband transmission terahertz time-domain spectroscopy. , 2016, , .		2
406	Temperature-dependent modulated reflectance and photoluminescence of InAs/GaAs and InAs/InGaAs/GaAs quantum dot heterostructures. Optical and Quantum Electronics, 2016, 48, 1.	3.3	2
407	Development of Terahertz Frequency Quantum Cascade Lasers for the Applications as Local Oscillators. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 123-134.	0.3	2
408	Room-Temperature operation of a quantum well mid-infrared detector embedded in nano-antennae array at critical optical coupling. , 2017, , .		2
409	Terahertz generation mechanism in nano-grating electrode photomixers on Fe-doped InGaAsP. Optics Express, 2017, 25, 10177.	3.4	2
410	Photoconductive Arrays for High-Field Terahertz Generation. , 2019, , .		2
411	Terahertz master-oscillator power-amplifier quantum Cascade laser with controllable polarization. Applied Physics Letters, 2020, 117, .	3.3	2
412	Crystallographic orientation dependence of bulk optical rectification. Journal of Modern Optics, 2000, 47, 1837-1845.	1.3	2
413	Enhanced coherent terahertz emission from indium arsenide. Journal of Modern Optics, 2000, 47, 1847-1856.	1.3	2
414	Terahertz Quantum Cascade Lasers with Integrated Plasmonic Collimators. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
415	Terahertz Graphene Modulator Integrated with Quantum Cascade Laser Achieving 100% Modulation Depth. , 2016, , .		2
416	Modeling and improving the output power of terahertz master-oscillator power-amplifier quantum cascade lasers. Optics Express, 2020, 28, 23239.	3.4	2
417	A "Janus" double sided mid-IR photodetector based on a MIM architecture. Applied Physics Letters, 2021, 119, 181102.	3.3	2
418	The fabrication of submicron gated wires on GaAs/AlGaAs heterostructures using low energy Ga ion beam damage. Microelectronic Engineering, 1990, 11, 19-22.	2.4	1
419	Imaging of domains and current filaments in GaAs/Al _x Ga _{1-x} As multi-quantum wells. Semiconductor Science and Technology, 1993, 8, 1303-1308.	2.0	1
420	A back-gated high electron mobility transistor utilizing a p-type doped layer. Semiconductor Science and Technology, 1993, 8, 1596-1598.	2.0	1
421	Performance of double heterostructure unipolar transistors in high frequency power applications. Solid-State Electronics, 1995, 38, 1663-1665.	1.4	1
422	One-dimensional electron transport in devices fabricated by MBE regrowth over a patterned δ -doped backgate. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 526-529.	2.7	1
423	The dependence of fractal conductance fluctuations on soft-wall profile in a double-2DEG billiard. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 841-844.	2.7	1
424	Discrete energy level spectrum dependence of fractal conductance fluctuations in semiconductor billiards. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 683-686.	2.7	1
425	Interaction effects in high-mobility two-dimensional electron and hole systems. Physica Status Solidi (B): Basic Research, 2005, 242, 1204-1208.	1.5	1
426	Temperature-Dependent Far-Infrared Spectra of Explosives and Drugs Measured by Terahertz Time-Domain Spectroscopy. , 2006, , .		1
427	Terahertz time domain spectroscopy - present and future modalities. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	1
428	Three-dimensional characterisation of the non-gaussian focused beam from a terahertz quantum cascade laser. , 2007, , .		1
429	Diffuse reflection imaging at terahertz frequencies for security applications. Proceedings of SPIE, 2007, , .	0.8	1
430	Broadband terahertz time-domain spectroscopy of drugs-of-abuse mixtures and "street" samples. , 2008, , .		1
431	Effect of emitter thickness on the spectral shape of heterojunction interfacial workfunction internal photoemission detectors. Journal of Applied Physics, 2009, 106, 014509.	2.5	1
432	Dual-frequency imaging using an electrically tunable terahertz quantum cascade laser. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
433	Photonic Crystal THz Lasers with Controllable Surface Emission Patterns. Optics and Photonics News, 2009, 20, 37.	0.5	1
434	Electronic structure and optical anisotropy of InGaAs quantum rods studied by photoreflectance and photoluminescence. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1640-1642.	0.8	1
435	Surface acoustic wave modulation of quantum cascade lasers. , 2013, , .		1
436	Self-mixing effect in THz quantum cascade lasers: Applications in sensing and imaging. , 2013, , .		1
437	Mode-locked terahertz quantum cascade laser by direct phase synchronization. AIP Conference Proceedings, 2013, , .	0.4	1
438	Hot-carrier photodetector beyond spectral limit. , 2013, , .		1
439	Terahertz time-domain spectroscopy of lysozyme and mouse urinary protein single crystals. , 2013, , .		1
440	Phase-locking of surface-emitting THz quantum cascade laser arrays. Proceedings of SPIE, 2013, , .	0.8	1
441	THz QCL self-mixing interferometry for biomedical applications. , 2014, , .		1
442	Observation of time-resolved gain dynamics in a terahertz quantum cascade laser. , 2015, , .		1
443	Design and performance of micro-rectenna arrays for thermal energy harvesting. , 2015, , .		1
444	Terahertz pulse generation from quantum cascade lasers. , 2015, , .		1
445	Pump-probe measurements of gain in a terahertz quantum cascade laser. , 2016, , .		1
446	Accurate parameter extraction from liquids measured using on-chip terahertz spectroscopy. , 2016, , .		1
447	Optical feedback effects on terahertz quantum cascade lasers: modelling and applications. , 2016, , .		1
448	Terahertz frequency quantum cascade lasers: Optical feedback effects and applications. , 2016, , .		1
449	Sub-wavelength THz resonators for ultra-fast THz detection. , 2017, , .		1
450	Mid-infrared detection in p-GaAs/AlGaAs heterostructures with a current blocking barrier. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
451	Fully Phase Stabilized Quantum Cascade Laser Frequency Comb. , 2019, , .		1
452	Waveguide-integrated THz Quantum-Cascade Lasers for Atmospheric-Research Satellite Payloads. , 2019, , .		1
453	Patch Antenna Microcavities THz Quantum Cascade Lasers. , 2019, , .		1
454	Quantum Transmission Line Modeling and Experimental Investigation of the Output Characteristics of a Terahertz Quantum Cascade Laser. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 333-342.	3.1	1
455	Broadband Terahertz Gas Spectroscopy Through Multimode Self-Mixing in a Quantum Cascade Laser. NATO Science for Peace and Security Series B: Physics and Biophysics, 2021, , 35-44.	0.3	1
456	Sub-surface damage detection in marble structures using THz time domain and laser feedback interferometric imaging techniques. , 2021, , .		1
457	Fully-tunable, Purcell-enhanced On-chip Quantum Emitters. , 2015, , .		1
458	Development of Terahertz Quantum-Cascade Lasers for Satellite-Borne Measurement of Key Gas Species. , 2019, , .		1
459	Increasing the sensitivity of terahertz metamaterials for dielectric sensing by substrate etching. , 2020, , .		1
460	Independent Control of Mode Selection and Power Extraction in Terahertz Semiconductor Lasers. ACS Photonics, 2022, 9, 1973-1983.	6.6	1
461	Current flow past an etched barrier: field emission from a two-dimensional electron gas. Europhysics Letters, 1998, 41, 327-332.	2.0	0
462	Low-dimensional devices fabricated by molecular beam epitaxy regrowth over patterned $\hat{\Gamma}$ -doped backgates. Microelectronics Journal, 1999, 30, 315-318.	2.0	0
463	The dependence of fractal conductance fluctuations on semiconductor billiard parameters. Physica B: Condensed Matter, 2002, 314, 477-480.	2.7	0
464	Investigation of an open quantum dot with a Coulomb blockade quantum dot detector. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 827-829.	2.7	0
465	Tuning of the intersubband emission below the longitudinal optical phonon energy in GaAs/AlGaAs quantum cascade emitters. Applied Physics Letters, 2003, 83, 1063-1065.	3.3	0
466	Suppression and enhancement of shot noise in mesoscopic transport through localized states. , 2003, 5115, 142.		0
467	Continuous-wave terahertz imaging using diode lasers. , 2004, , .		0
468	Buried heterostructure 2.9-THz quantum cascade lasers operating up to 77K in continuous wave. , 2005, , .		0

#	ARTICLE	IF	CITATIONS
469	Interaction effects in high-mobility two-dimensional systems. AIP Conference Proceedings, 2005, , .	0.4	0
470	Terahertz quantum cascade laser emitting at $160\ \mu\text{m}$ in strong magnetic field. AIP Conference Proceedings, 2005, , .	0.4	0
471	Shot noise as a probe of electron dynamics in hopping and resonant tunnelling. AIP Conference Proceedings, 2005, , .	0.4	0
472	Cryogenic excitation and detection of terahertz radiation in microstrip circuits. , 2006, , .		0
473	<title>GaAs/AlAs quantum wells for selective terahertz sensing: study by differential surface photovoltage spectroscopy</title>. , 2006, , .		0
474	<title>Optical and terahertz spectroscopy of doped GaAs/AlAs quantum wells</title>. , 2006, , .		0
475	Guided-wave Terahertz devices for sensing the properties of overlaid dielectric films. , 2006, , .		0
476	Superlattice Electronic Devices as High-Performance Millimeter- and Submillimeter-Wave Sources: Current Status. , 2006, , .		0
477	Measurement and simulation of the sensitivity of terahertz frequency range passive filter elements to overlaid dielectrics. , 2006, , .		0
478	Modal perturbation of terahertz quantum cascade lasers. , 2006, , .		0
479	Phase Effects In Terahertz Pulsed Imaging. , 2006, , .		0
480	Terahertz transmission through periodic arrays of dielectric and conducting spheres. , 2007, , .		0
481	Cyclotron absorption in two-dimensional electron systems monitored by terahertz time-domain spectroscopy. , 2007, , .		0
482	Evanescent-field Terahertz time-domain microscopy. , 2007, , .		0
483	Low-Divergence Surface-Emitting Terahertz Quantum Cascade Lasers. , 2007, , .		0
484	Temperature dependent and magnetic field dependent terahertz spectroscopy of $\text{In}_{1-x}\text{Mn}_x\text{As}$. , 2007, , .		0
485	Temperature dependent and magnetic field dependent terahertz spectroscopy of $\text{In}_{1-x}\text{Mn}_x\text{As}$. , 2007, , .		0
486	Three-dimensional Characterisation of the Non-Gaussian Focused Beam from a Terahertz Quantum Cascade Laser. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
487	Sub-wavelength imaging of terahertz dielectric permittivity using planar resonant circuits. , 2008, , .		0
488	Terahertz vibrational absorption resonances observed using on-chip terahertz circuits. , 2008, , .		0
489	Terahertz frequency quantum cascade lasers operating up to 178 K with copper metal-metal waveguides. , 2008, , .		0
490	Wide ridge low-divergence metal-metal terahertz quantum cascade lasers. , 2008, , .		0
491	Terahertz goubau waveguides with integrated photoconductive emitters and mode discriminating detectors. , 2009, , .		0
492	A Superlattice Barrier Based Quantum Well Infrared Photodetector with Maximum Sensitivity at Mid-Infrared Wavelengths. , 2010, , .		0
493	Flip-chip fabrication of nanoscale co-planar embedded electrodes with controlled exposed areas. Nanotechnology, 2010, 21, 455301.	2.6	0
494	Multiple-frequency imaging using a terahertz quantum cascade laser. , 2010, , .		0
495	Self-mixing interferometry with a terahertz Quantum Cascade Laser: Feedback induced voltage signal. , 2010, , .		0
496	Terahertz spectral measurements of a homologous organic series. , 2010, , .		0
497	Terahertz quantum cascade lasers with angled facets for monolithic integration. , 2010, , .		0
498	Terahertz time-domain spectroscopy of protein single crystals. , 2010, , .		0
499	Gain switching of a terahertz quantum cascade laser for THz pulse amplification. , 2010, , .		0
500	Gain studies of phonon-depopulation based terahertz quantum cascade lasers using terahertz time domain spectroscopy. , 2010, , .		0
501	Injection-locking of terahertz quantum cascade lasers up to 35GHz via RF amplitude modulation. , 2010, , .		0
502	Calculation of terahertz active normal modes in organic crystals. , 2010, , .		0
503	Phase-locking of 2.4 and 2.7 terahertz quantum cascade lasers to a femtosecond mode-locked Er-fiber laser. , 2010, , .		0
504	GaAs/Al _{0.15} Ga _{0.85} As terahertz quantum cascade lasers with double-phonon resonant depopulation operating up to 172 K. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
505	Intersubband Raman laser for operation in terahertz. , 2011, , .		0
506	Terahertz sensing and imaging using a quantum cascade laser. , 2011, , .		0
507	Vertical Sub-Wavelength Mode Confinement in THz Quantum Cascade Lasers. , 2011, , .		0
508	Room temperature photovoltaic response of split-off band infrared detectors with a graded barrier. , 2011, , .		0
509	Coherent detection of an active mode-locked terahertz quantum cascade laser. , 2011, , .		0
510	Photonic heterostructures: A new concept for high power surface emission in THz quantum cascade lasers. , 2011, , .		0
511	Ultrafast gain switching of THz quantum cascade lasers. Proceedings of SPIE, 2011, , .	0.8	0
512	Active-mode-locked terahertz quantum cascade lasers. , 2011, , .		0
513	Ultra-fast sampling of terahertz pulses from a quantum cascade laser using superconducting antenna-coupled NbN and YBCO detectors. , 2012, , .		0
514	Single-mode narrow beam divergence surface-emitting concentric-circular-grating terahertz quantum cascade lasers. , 2012, , .		0
515	High power extraction in (THz) surface-emitting lasers using type-II photonic heterostructures. , 2012, , .		0
516	Graded-barrier heterostructures for photovoltaic split-off infrared detection. , 2012, , .		0
517	Coherent terahertz systems. , 2012, , .		0
518	Time domain measurements of the sampling coherence of a terahertz quantum cascade laser. , 2012, , .		0
519	Injection seeding dynamics of THz quantum cascade lasers. , 2012, , .		0
520	Terahertz and mid-infrared photoexpansion nanospectroscopy. Proceedings of SPIE, 2013, , .	0.8	0
521	Photothermoelastic response of zincblende crystals to radiation from a THz-frequency quantum cascade laser. , 2013, , .		0
522	Transient analysis of substrate heating effects in a terahertz quantum cascade laser using an ultrafast NbN superconducting detector. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
523	Phase-locked arrays of surface-emitting terahertz distributed feedback quantum cascade lasers. , 2013, , .		0
524	Distributed feedback Terahertz QCLs with a quasi-periodic Penrose patterning. , 2013, , .		0
525	Funneling single photons into ridge-waveguide photonic integrated circuits. Proceedings of SPIE, 2013, , .	0.8	0
526	Detection of terahertz frequency radiation via the photothermoelastic response of zincblende crystals. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 3151.	2.1	0
527	Comparative optical study of epitaxial InGaAs quantum rods grown with As[sub 2] and As[sub 4] sources. , 2013, , .		0
528	Photoreflectance and photoluminescence study of InAs dots-in-a-well nanostructures. , 2013, , .		0
529	Optimization and application of on-chip terahertz Goubau lines. , 2013, , .		0
530	High order optical sideband generation with Terahertz quantum cascade lasers. , 2013, , .		0
531	Controlling the emission from single quantum dots with electro-opto-mechanical photonic crystal cavities. , 2013, , .		0
532	Spectroscopic analysis of powders through diffuse-reflectance imaging using a frequency-switchable terahertz quantum cascade laser. , 2013, , .		0
533	Understanding the influence of morphology on the terahertz spectra of a powdered ionic crystalline system. , 2013, , .		0
534	A QCL model with integrated thermal and stark rollover mechanisms. , 2014, , .		0
535	Injection seeding of metal-metal terahertz quantum cascade lasers. , 2014, , .		0
536	Narrow bandwidth injection seeding of a THz quantum cascade laser. , 2014, , .		0
537	Injection seeding and modelocking of metal-metal Terahertz quantum cascade lasers. , 2015, , .		0
538	Optical sideband generation up to room temperature with mid-infrared quantum cascade lasers. , 2015, , .		0
539	Tunable hot-carrier photodetector. , 2015, , .		0
540	Far-field engineering of metal-metal terahertz quantum cascade lasers with integrated horn antennas. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
541	Terahertz quantum cascade laser bandwidth prediction. , 2015, , .		0
542	Antenna-coupled microcavity enhanced THz photodetectors. , 2015, , .		0
543	Terahertz quantum cascade lasers — The past, present, and potential future. , 2015, , .		0
544	On-chip THz-frequency tuneable plasmonic circuits. , 2015, , .		0
545	Design and performance of a micro-rectenna focal plane array for thermal energy harvesting. , 2015, , .		0
546	Accurate material parameter extraction from broadband terahertz spectroscopy. , 2015, , .		0
547	Spatially resolved on-chip picosecond pulse detection using graphene. , 2015, , .		0
548	Metal-metal terahertz quantum cascade laser with hybrid mode section. , 2015, , .		0
549	Electromechanically-tunable nanophotonic cavities. , 2015, , .		0
550	Generation of continuous wave terahertz radiation from Fe-doped InGaAs and InGaAsP. , 2015, , .		0
551	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. , 2016, , .		0
552	Nonlinear frequency mixing in quantum cascade lasers: Towards broadband wavelength shifting and THz up-conversion. , 2016, , .		0
553	Short pulse generation and dispersion in THz quantum cascade lasers. , 2016, , .		0
554	Terahertz near-field microscopy using the self-mixing effect in a quantum cascade laser. , 2016, , .		0
555	Low divergent, high-power, single-mode terahertz wire lasers. , 2016, , .		0
556	Feedhorn-integrated THz QCL local oscillators for the LOCUS atmospheric sounder. , 2016, , .		0
557	Terahertz emission mechanism and laser excitation position dependence of nano-grating electrode photomixers. , 2016, , .		0
558	Estimation of spectroscopic uncertainty and correlation in terahertz time domain spectroscopy. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
559	Terahertz frequency quantum cascade lasers for use as waveguide-integrated local oscillators. , 2016, , .		0
560	Modeling and design of Al _{0.25} Ga _{0.75} As/GaAs terahertz quantum cascade lasers with a realistic band structure. , 2017, , .		0
561	THz-TDS of liquids in a temperature-controlled transmission flowcell. , 2017, , .		0
562	3.5 THz dual feedhorn quantum cascade laser a step towards achieving a frequency stable supra-THz heterodyne local oscillator. , 2017, , .		0
563	Ultrafast terahertz detectors based on 3D meta-atoms. , 2017, , .		0
564	Monolithic echo-less photoconductive switches for high-resolution terahertz time-domain spectroscopy. , 2017, , .		0
565	Investigation into free-space terahertz radiation from a LT-GaAs-on-quartz photoconductive emitter. , 2017, , .		0
566	Continuous-wave Highly Efficient Low-Divergence Terahertz Wire Lasers. , 2018, , .		0
567	Probing Ultrafast Switch-on Dynamics of Frequency Tuneable Semiconductor Lasers Using Terahertz Time-domain Spectroscopy. , 2019, , .		0
568	Independent Control of Mode Selection and Power Extraction in Terahertz Quantum Cascade Lasers. , 2019, , .		0
569	Highly Sensitive and Compact THz heterodyne receiver based on HEB and QCL at 2.7 THz. , 2019, , .		0
570	Electromagnetic-field analysis of diagonal-feedhorn antennas for terahertz-frequency quantum-cascade laser integration. , 2019, , .		0
571	Ultra-Small Mode Volume Three-Dimensional THz LC Metamaterial. , 2019, , .		0
572	High sensitivity $9\frac{1}{4}$ m metamaterial Infrared QC detectors at 300K. , 2019, , .		0
573	Scattering in InAs/GaSb coupled quantum wells as a probe of higher order subband hybridization. Physical Review B, 2020, 102, .	3.2	0
574	Programmable, Transform-Limited Pulses from a Terahertz Quantum Cascade Laser. ACS Photonics, 2020, 7, 2423-2428.	6.6	0
575	Reshaping the emission of a THz quantum cascade laser frequency comb through an on-chip graphene modulator. , 2021, , .		0
576	Sub-picosecond broadband frequency modulation of terahertz three-dimensional meta-atoms. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
577	Self-Mixing Signal Characteristics of Complex-Coupled Distributed-Feedback Terahertz Quantum-Cascade Lasers. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	0
578	Waveguide integrated terahertz quantum-cascade laser systems. , 2021, , .		0
579	Enhanced light-matter coupling and optical pumping of THz intersubband polaritons. , 2021, , .		0
580	Two beam self mixing interference in terahertz quantum cascade lasers. , 2021, , .		0
581	Transverse mode control of high-power single plasmon terahertz frequency quantum cascade lasers. , 2021, , .		0
582	Millimeter Wave Photonics with Terahertz Semiconductor Lasers. , 2021, , .		0
583	Delta-doped GaAs/AlAs multiple quantum wells: Study by optical and terahertz techniques. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
584	Terahertz quantum cascade lasers operating up to 178 K with copper metal-metal waveguides. , 2008, , .		0
585	Low divergence, single-lobed, surface emission from THz photonic-crystal quantum cascade lasers. , 2009, , .		0
586	Terahertz amplifier based on gain switching in a quantum cascade laser. , 2010, , .		0
587	Terahertz time domain spectroscopy of phonondepopulation based quantum cascade lasers. , 2010, , .		0
588	Integrated injection seeded THz source and amplifier for time-domain spectroscopy. , 2012, , .		0
589	Optical wavelength shifting using resonant non-linearities in THz quantum cascade lasers. , 2012, , .		0
590	Coherent THz imaging using the self-mixing effect in quantum cascade lasers. , 2014, , .		0
591	3-D Patterned III-V Semiconductor Devices Using High Energy In-Situ Focused Ion Beam Lithography and MBE. , 1996, , 35-39.		0
592	Selection of Longitudinal Modes in a Terahertz Quantum Cascade Laser via Narrow-band Injection Seeding. , 2015, , .		0
593	Patch Antenna Microcavities Terahertz Sources with Enhanced Emission. , 2016, , .		0
594	Terahertz pulse generation from metal-metal quantum cascade lasers. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
595	Aperiodic photonic architectures for high-power distributed feedback THz quantum cascade lasers. , 2019, , .		0
596	Quasi-static and propagating modes in three-dimensional THz circuits. Optics Express, 2020, 28, 16982.	3.4	0
597	Interactions in High-Mobility 2D Electron and Hole Systems. , 2004, , 349-370.		0
598	Spectral analysis of a gas-phase reaction using self-mixing in a terahertz quantum cascade laser. , 2020, , .		0
599	Development of a Broadband Multidimensional THz Spectrometer. , 2020, , .		0
600	Ultrafast THz intersubband polariton saturable absorber integrated with a quantum cascade frequency comb. , 2020, , .		0
601	On-chip terahertz spectroscopy of magnetoplasmons in a two-dimensional electron gas. , 2020, , .		0
602	Broadband Nonlinear Spectroscopy of Hydrogen-Like Levels in Ge: As. , 2020, , .		0
603	Semiconductor THz frequency combs exploiting solution processed graphene. , 2020, , .		0
604	Near-field study of the strong coupling between intersubband transitions in quantum wells and single patch antenna resonators in the mid-infrared. , 2020, , .		0
605	Giant optical nonlinearity interferences in Terahertz quantum structures. , 2020, , .		0
606	Highly efficient one-dimensional quasi-crystalline THz semiconductor lasers. , 2020, , .		0