

# A Giles Davies

## List of Publications by Year in descending order

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440  
papers

14,279  
citations

34016

52  
h-index

24915

109  
g-index

447  
all docs

447  
docs citations

447  
times ranked

9310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz semiconductor-heterostructure laser. <i>Nature</i> , 2002, 417, 156-159.	13.7	2,539
2	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 043001.	1.3	1,160
3	Terahertz spectroscopy of explosives and drugs. <i>Materials Today</i> , 2008, 11, 18-26.	8.3	447
4	Electrically pumped topological laser with valley edge modes. <i>Nature</i> , 2020, 578, 246-250.	13.7	341
5	Electrically pumped photonic-crystal terahertz lasers controlled by boundary conditions. <i>Nature</i> , 2009, 457, 174-178.	13.7	334
6	Simulation of terahertz generation at semiconductor surfaces. <i>Physical Review B</i> , 2002, 65, .	1.1	308
7	Designer spoof surface plasmon structures collimate terahertz laser beams. <i>Nature Materials</i> , 2010, 9, 730-735.	13.3	260
8	Room-temperature nine- $\mu\text{m}$ -wavelength photodetectors and GHz-frequency heterodyne receivers. <i>Nature</i> , 2018, 556, 85-88.	13.7	197
9	Terahertz quantum cascade lasers with copper metal-metal waveguides operating up to 178 K. <i>Optics Express</i> , 2008, 16, 3242.	1.7	194
10	Coherent sampling of active mode-locked terahertz quantum cascade lasers and frequency synthesis. <i>Nature Photonics</i> , 2011, 5, 306-313.	15.6	189
11	Ultrabroadband terahertz radiation from low-temperature-grown GaAs photoconductive emitters. <i>Applied Physics Letters</i> , 2003, 83, 3117-3119.	1.5	180
12	Temperature-dependent low-frequency vibrational spectra of purine and adenine. <i>Applied Physics Letters</i> , 2003, 82, 2350-2352.	1.5	170
13	Integrated Terahertz Graphene Modulator with 100% Modulation Depth. <i>ACS Photonics</i> , 2015, 2, 1559-1566.	3.2	158
14	Terahertz imaging through self-mixing in a quantum cascade laser. <i>Optics Letters</i> , 2011, 36, 2587.	1.7	149
15	Generation and detection of ultrabroadband terahertz radiation using photoconductive emitters and receivers. <i>Applied Physics Letters</i> , 2004, 85, 164-166.	1.5	144
16	Terahertz imaging using quantum cascade lasers—a review of systems and applications. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 374008.	1.3	141
17	The development of terahertz sources and their applications. <i>Physics in Medicine and Biology</i> , 2002, 47, 3679-3689.	1.6	128
18	High resistivity annealed low-temperature GaAs with 100 fs lifetimes. <i>Applied Physics Letters</i> , 2003, 83, 4199-4201.	1.5	127

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19	Linewidth and tuning characteristics of terahertz quantum cascade lasers. Optics Letters, 2004, 29, 575.	1.7	125
20	Surface emitting terahertz quantum cascade laser with a double-metal waveguide. Optics Express, 2006, 14, 11672.	1.7	121
21	Efficient power extraction in surface-emitting semiconductor lasers using graded photonic heterostructures. Nature Communications, 2012, 3, 952.	5.8	120
22	High-Temperature Operation of Terahertz Quantum Cascade Laser Sources. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 952-967.	1.9	111
23	Label-free electrochemical impedance biosensor to detect human interleukin-8 in serum with sub-pg/ml sensitivity. Biosensors and Bioelectronics, 2016, 80, 607-613.	5.3	111
24	Injection-locking of terahertz quantum cascade lasers up to 35GHz using RF amplitude modulation. Optics Express, 2010, 18, 20799.	1.7	103
25	Far-Infrared Spectroscopic Characterization of Explosives for Security Applications Using Broadband Terahertz Time-Domain Spectroscopy. Applied Spectroscopy, 2007, 61, 638-643.	1.2	99
26	Enhanced coherent terahertz emission from indium arsenide in the presence of a magnetic field. Applied Physics Letters, 2000, 76, 2038-2040.	1.5	98
27	Terahertz time-domain spectroscopy of glucose and uric Acid. Journal of Biological Physics, 2003, 29, 117-121.	0.7	97
28	Terahertz saturable absorbers from liquid phase exfoliation of graphite. Nature Communications, 2017, 8, 15763.	5.8	93
29	Swept-frequency feedback interferometry using terahertz frequency QCLs: a method for imaging and materials analysis. Optics Express, 2013, 21, 22194.	1.7	91
30	Acoustically induced current flow in graphene. Applied Physics Letters, 2012, 100, .	1.5	90
31	Alignment of particles in microfluidic systems using standing surface acoustic waves. Applied Physics Letters, 2008, 92, .	1.5	89
32	Magneto-optical probe of two-dimensional electron liquid and solid phases. Physical Review B, 1992, 46, 7957-7960.	1.1	88
33	Terahertz Transmission Spectroscopy of Nonpolar Materials and Relationship with Composition and Properties. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 55-64.	0.6	82
34	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.	1.6	78
35	Controlled wave-function mixing in strongly coupled one-dimensional wires. Physical Review B, 1999, 59, 12252-12255.	1.1	72
36	Broadband terahertz time-domain spectroscopy of drugs-of-abuse and the use of principal component analysis. Analyst, The, 2009, 134, 1658.	1.7	70

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37	Phase-resolved terahertz self-detection near-field microscopy. Optics Express, 2018, 26, 18423.	1.7	70
38	Fully phase-stabilized quantum cascade laser frequency comb. Nature Communications, 2019, 10, 2938.	5.8	69
39	Formation and manipulation of two-dimensional arrays of micron-scale particles in microfluidic systems by surface acoustic waves. Applied Physics Letters, 2009, 94, .	1.5	68
40	Terahertz amplifier based on gain switching in a quantum cascade laser. Nature Photonics, 2009, 3, 715-719.	15.6	68
41	Single-mode operation of terahertz quantum cascade lasers with distributed feedback resonators. Applied Physics Letters, 2004, 84, 5446-5448.	1.5	67
42	Apertureless near-field terahertz imaging using the self-mixing effect in a quantum cascade laser. Applied Physics Letters, 2016, 108, .	1.5	67
43	Theory of magnetic-field enhancement of surface-field terahertz emission. Journal of Applied Physics, 2002, 91, 2104-2106.	1.1	66
44	High-performance continuous-wave operation of superlattice terahertz quantum-cascade lasers. Applied Physics Letters, 2003, 82, 1518-1520.	1.5	66
45	Demonstration of a self-mixing displacement sensor based on terahertz quantum cascade lasers. Applied Physics Letters, 2011, 99, .	1.5	63
46	Terahertz pulsed imaging with 1.06 $\mu$ m laser excitation. Applied Physics Letters, 2003, 83, 4113-4115.	1.5	61
47	Coherent terahertz photonics. Optics Express, 2013, 21, 22988.	1.7	61
48	Patch antenna terahertz photodetectors. Applied Physics Letters, 2015, 106, .	1.5	61
49	Limiting Factors to the Temperature Performance of THz Quantum Cascade Lasers Based on the Resonant-Phonon Depopulation Scheme. IEEE Transactions on Terahertz Science and Technology, 2012, 2, 83-92.	2.0	59
50	Photonic quasi-crystal terahertz lasers. Nature Communications, 2014, 5, 5884.	5.8	59
51	Evolution of Fractal Patterns during a Classical-Quantum Transition. Physical Review Letters, 2001, 87, 036802.	2.9	57
52	Terahertz quantum-cascade lasers based on an interlaced photon-phonon cascade. Applied Physics Letters, 2004, 84, 1266-1268.	1.5	56
53	Terahertz frequency range band-stop filters. Applied Physics Letters, 2005, 86, 213503.	1.5	54
54	Generation of high-power terahertz pulses in a prism. Optics Letters, 2002, 27, 1935.	1.7	53

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55	Excitation-density-dependent generation of broadband terahertz radiation in an asymmetrically excited photoconductive antenna. <i>Optics Letters</i> , 2007, 32, 2297.	1.7	52
56	Surface-Immobilized Peptide Aptamers as Probe Molecules for Protein Detection. <i>Analytical Chemistry</i> , 2008, 80, 978-983.	3.2	52
57	Generating ultrafast pulses of light from quantum cascade lasers. <i>Optica</i> , 2015, 2, 944.	4.8	52
58	Increasing the sensitivity of terahertz split ring resonator metamaterials for dielectric sensing by localized substrate etching. <i>Optics Express</i> , 2019, 27, 23164.	1.7	52
59	Selective dielectrophoretic manipulation of surface-immobilized DNA molecules. <i>Nanotechnology</i> , 2003, 14, 896-902.	1.3	51
60	Terahertz vibrational absorption spectroscopy using microstrip-line waveguides. <i>Applied Physics Letters</i> , 2008, 93, 182904.	1.5	51
61	Terahertz emission from metal-organic chemical vapor deposition grown Fe:InGaAs using 830 nm to 1.55- $\mu$ m excitation. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	51
62	Characterization of Crystalline Phase-Transformations in Theophylline by Time-Domain Terahertz Spectroscopy. <i>Spectroscopy Letters</i> , 2006, 39, 215-224.	0.5	46
63	Wide-ridge metal-metal terahertz quantum cascade lasers with high-order lateral mode suppression. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	46
64	Fabrication and characterization of gold nano-wires templated on virus-like arrays of tobacco mosaic virus coat proteins. <i>Nanotechnology</i> , 2013, 24, 025605.	1.3	46
65	Hybridization of single- and double-layer behavior in a double-quantum-well structure. <i>Physical Review B</i> , 1996, 54, R17331-R17334.	1.1	45
66	High-intensity interminiband terahertz emission from chirped superlattices. <i>Applied Physics Letters</i> , 2002, 80, 1867-1869.	1.5	45
67	Coherent three-dimensional terahertz imaging through self-mixing in a quantum cascade laser. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	45
68	Electrical protein detection in cell lysates using high-density peptide-aptamer microarrays. <i>Journal of Biology</i> , 2008, 7, 3.	2.7	44
69	Graded photonic crystal terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	44
70	The analysis of human cortical bone by terahertz time-domain spectroscopy. <i>Physics in Medicine and Biology</i> , 2005, 50, 3211-3219.	1.6	42
71	Dual-frequency imaging using an electrically tunable terahertz quantum cascade laser. <i>Optics Express</i> , 2009, 17, 20631.	1.7	42
72	High-contrast coherent terahertz imaging of porcine tissue via swept-frequency feedback interferometry. <i>Biomedical Optics Express</i> , 2014, 5, 3981.	1.5	41

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73	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.	3.2	41
74	Quantum cascade laser based hybrid dual comb spectrometer. Communications Physics, 2020, 3, .	2.0	40
75	Simultaneous measurement of orthogonal components of polarization in a free-space propagating terahertz signal using electro-optic detection. Applied Physics Letters, 2011, 98, .	1.5	39
76	Determination of Glucose Concentration in Whole Blood using Fourier-Transform Infrared Spectroscopy. Journal of Biological Physics, 2003, 29, 129-133.	0.7	38
77	The MBE growth and optimization of high performance terahertz frequency quantum cascade lasers. Optics Express, 2015, 23, 2720.	1.7	38
78	Ultrastrong Light-Matter Coupling in Deeply Subwavelength THz LC Resonators. ACS Photonics, 2019, 6, 1207-1215.	3.2	37
79	Terahertz inverse synthetic aperture radar imaging using self-mixing interferometry with a quantum cascade laser. Optics Letters, 2014, 39, 2629.	1.7	36
80	Resonant dipole antennas for continuous-wave terahertz photomixers. Applied Physics Letters, 2004, 85, 1622-1624.	1.5	35
81	Three-dimensional terahertz imaging using swept-frequency feedback interferometry with a quantum cascade laser. Optics Letters, 2015, 40, 994.	1.7	35
82	10 Gbit s <sup>-1</sup> Free Space Data Transmission at 9 $\mu$ m Wavelength With Unipolar Quantum Optoelectronics. Laser and Photonics Reviews, 2022, 16, .	4.4	35
83	Electrically tunable terahertz quantum-cascade laser with a heterogeneous active region. Applied Physics Letters, 2009, 95, 181101.	1.5	33
84	Terahertz-frequency photoconductive detectors fabricated from metal-organic chemical vapor deposition-grown Fe-doped InGaAs. Applied Physics Letters, 2011, 98, .	1.5	33
85	On-Chip Picosecond Pulse Detection and Generation Using Graphene Photoconductive Switches. Nano Letters, 2015, 15, 1591-1596.	4.5	33
86	Frequency-tunable continuous-wave random lasers at terahertz frequencies. Light: Science and Applications, 2019, 8, 43.	7.7	33
87	Long-wavelength infrared photovoltaic heterodyne receivers using patch-antenna quantum cascade detectors. Applied Physics Letters, 2020, 116, .	1.5	33
88	Terahertz generation from coherent optical phonons in a biased GaAs photoconductive emitter. Physical Review B, 2004, 69, .	1.1	32
89	Comparison of near infrared laser excitation wavelengths and its influence on the interrogation of seized drugs of abuse by Raman spectroscopy. Journal of Raman Spectroscopy, 2009, 40, 1974-1983.	1.2	32
90	Efficient prediction of terahertz quantum cascade laser dynamics from steady-state simulations. Applied Physics Letters, 2015, 106, .	1.5	32

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91	Rapid cell separation with minimal manipulation for autologous cell therapies. Scientific Reports, 2017, 7, 41872.	1.6	32
92	Tunable and compact dispersion compensation of broadband THz quantum cascade laser frequency combs. Optics Express, 2019, 27, 20231.	1.7	32
93	Direct Selective Functionalization of Nanometer-Separated Gold Electrodes with DNA Oligonucleotides. Langmuir, 2003, 19, 981-984.	1.6	31
94	Terahertz pulsed spectroscopic imaging using optimized binary masks. Applied Physics Letters, 2009, 95, 231112.	1.5	31
95	GaAs/Al <sub>0.15</sub> Ga <sub>0.85</sub> As terahertz quantum cascade lasers with double-phonon resonant depopulation operating up to 172 K. Applied Physics Letters, 2010, 97, 131111.	1.5	31
96	Millimeter wave photonics with terahertz semiconductor lasers. Nature Communications, 2021, 12, 1427.	5.8	31
97	Tunable, Grating-Gated, Graphene-On-Polyimide Terahertz Modulators. Advanced Functional Materials, 2021, 31, 2008039.	7.8	31
98	Coherent imaging using laser feedback interferometry with pulsed-mode terahertz quantum cascade lasers. Optics Express, 2019, 27, 10221.	1.7	31
99	Predictable surface emission patterns in terahertz photonic-crystal quantum cascade lasers. Optics Express, 2009, 17, 9491.	1.7	30
100	Calculation and Measurement of Terahertz Active Normal Modes in Crystalline PETN. ChemPhysChem, 2010, 11, 368-378.	1.0	30
101	Laser-seeding dynamics with few-cycle pulses: Maxwell-Bloch finite-difference time-domain simulations of terahertz quantum cascade lasers. Physical Review A, 2013, 87, .	1.0	30
102	Coupled-cavity terahertz quantum cascade lasers for single mode operation. Applied Physics Letters, 2014, 104, .	1.5	30
103	Continuous-wave highly-efficient low-divergence terahertz wire lasers. Nature Communications, 2018, 9, 1122.	5.8	30
104	Single-mode surface-emitting concentric-circular-grating terahertz quantum cascade lasers. Applied Physics Letters, 2013, 102, 031119.	1.5	29
105	Gain recovery time in a terahertz quantum cascade laser. Applied Physics Letters, 2016, 108, .	1.5	28
106	Injection locking of a terahertz quantum cascade laser to a telecommunications wavelength frequency comb. Optica, 2017, 4, 1059.	4.8	28
107	Acousto-microfluidics: Transporting microbubble and microparticle arrays in acoustic traps using surface acoustic waves. Journal of Applied Physics, 2012, 111, .	1.1	27
108	Discrete Vernier tuning in terahertz quantum cascade lasers using coupled cavities. Optics Express, 2014, 22, 16595.	1.7	27

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109	Laser Feedback Interferometry as a Tool for Analysis of Granular Materials at Terahertz Frequencies: Towards Imaging and Identification of Plastic Explosives. <i>Sensors</i> , 2016, 16, 352.	2.1	27
110	Designer Multimode Localized Random Lasing in Amorphous Lattices at Terahertz Frequencies. <i>ACS Photonics</i> , 2016, 3, 2453-2460.	3.2	27
111	Terahertz Frequency Combs Exploiting an On-Chip, Solution-Processed, Graphene-Quantum Cascade Laser Coupled-Cavity. <i>ACS Photonics</i> , 2020, 7, 3489-3498.	3.2	26
112	High-speed modulation of a terahertz quantum cascade laser by coherent acoustic phonon pulses. <i>Nature Communications</i> , 2020, 11, 835.	5.8	26
113	Low-threshold quantum-cascade lasers at 35 THz ( $\lambda = 85 \text{ \AA}\mu\text{m}$ ). <i>Optics Letters</i> , 2003, 28, 810.	1.7	25
114	Mode-locking of a terahertz laser by direct phase synchronization. <i>Optics Express</i> , 2012, 20, 20855.	1.7	25
115	Spectroscopy of polycrystalline materials using thinned-substrate planar Goubau line at cryogenic temperatures. <i>Lab on A Chip</i> , 2013, 13, 4065.	3.1	25
116	Electrically pumped semiconductor laser with monolithic control of circular polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5623-32.	3.3	25
117	Surface-emitting terahertz quantum cascade lasers with continuous-wave power in the tens of milliwatt range. <i>Applied Physics Letters</i> , 2014, 104, 091112.	1.5	25
118	Multiple-frequency terahertz pulsed sensing of dielectric films. <i>Applied Physics Letters</i> , 2006, 88, 071112.	1.5	24
119	Terahertz time domain spectroscopy of phonon-depopulation based quantum cascade lasers. <i>Applied Physics Letters</i> , 2009, 94, 251108.	1.5	24
120	Improving the Dielectric Properties of Ethylene-Glycol Alkanethiol Self-Assembled Monolayers. <i>Langmuir</i> , 2014, 30, 1321-1326.	1.6	24
121	Fractional quantum Hall effect in high-mobility two-dimensional hole gases in tilted magnetic fields. <i>Physical Review B</i> , 1991, 44, 13128-13131.	1.1	23
122	Terahertz ambipolar dual-wavelength quantum cascade laser. <i>Optics Express</i> , 2009, 17, 19926.	1.7	23
123	Surface acoustic wave generation and detection using graphene interdigitated transducers on lithium niobate. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	23
124	Tuning a microcavity-coupled terahertz laser. <i>Applied Physics Letters</i> , 2015, 107, 261108.	1.5	23
125	Antibody mimetic receptor proteins for label-free biosensors. <i>Analyst, The</i> , 2015, 140, 803-810.	1.7	23
126	Monolithic Semiconductor Lasers with Dynamically Tunable Linear-to-Circular Polarization. <i>ACS Photonics</i> , 2017, 4, 517-524.	3.2	23



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127	High temperature metamaterial terahertz quantum detector. Applied Physics Letters, 2020, 117, .	1.5	23
128	Electromagnetic simulation of terahertz frequency range filters for genetic sensing. Journal of Applied Physics, 2006, 100, 066105.	1.1	22
129	Vertical subwavelength mode confinement in terahertz and mid-infrared quantum cascade lasers. Applied Physics Letters, 2011, 98, .	1.5	22
130	Integrated On-Chip THz Sensors for Fluidic Systems Fabricated Using Flexible Polyimide Films. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 619-624.	2.0	22
131	On-Chip Terahertz-Frequency Measurements of Liquids. Analytical Chemistry, 2017, 89, 7981-7987.	3.2	22
132	Influence of alternating current electrokinetic forces and torque on the elongation of immobilized DNA. Journal of Applied Physics, 2005, 97, 014702.	1.1	21
133	On-chip terahertz Goubau-line waveguides with integrated photoconductive emitters and mode-discriminating detectors. Applied Physics Letters, 2009, 95, .	1.5	21
134	Measuring the sampling coherence of a terahertz quantum cascade laser. Optics Express, 2012, 20, 16662.	1.7	21
135	THz quantum cascade lasers operating on the radiative modes of a 2D photonic crystal. Optics Letters, 2014, 39, 3962.	1.7	21
136	Excitation, detection and electrostatic manipulation of terahertz-frequency range plasmons in a two-dimensional electron system. Scientific Reports, 2015, 5, 15420.	1.6	21
137	Free-space terahertz radiation from a LT-GaAs-on-quartz large-area photoconductive emitter. Optics Express, 2016, 24, 26986.	1.7	21
138	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.	1.2	21
139	Silver-based surface plasmon waveguide for terahertz quantum cascade lasers. Optics Express, 2018, 26, 3814.	1.7	21
140	Absorption Engineering in an Ultrasubwavelength Quantum System. Nano Letters, 2020, 20, 4430-4436.	4.5	21
141	Terahertz evanescent field microscopy of dielectric materials using on-chip waveguides. Applied Physics Letters, 2008, 92, 032903.	1.5	20
142	Low divergence single-mode surface-emitting concentric-circular-grating terahertz quantum cascade lasers. Optics Express, 2013, 21, 31872.	1.7	20
143	Measurement of the emission spectrum of a semiconductor laser using laser-feedback interferometry. Scientific Reports, 2017, 7, 7236.	1.6	20
144	Ultrafast terahertz detectors based on three-dimensional meta-atoms. Optica, 2017, 4, 1451.	4.8	20

#	ARTICLE	IF	CITATIONS
145	Effects of magnetic field and optical fluence on terahertz emission in gallium arsenide. <i>Physical Review B</i> , 2001, 64, .	1.1	19
146	Generation of Bessel beams using a terahertz quantum cascade laser. <i>Optics Letters</i> , 2009, 34, 1030.	1.7	19
147	Terahertz master-oscillator power-amplifier quantum cascade lasers. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	19
148	Two-Dimensional Multimode Terahertz Random Lasing with Metal Pillars. <i>ACS Photonics</i> , 2018, 5, 2928-2935.	3.2	19
149	Ultrafast terahertz saturable absorbers using tailored intersubband polaritons. <i>Nature Communications</i> , 2020, 11, 4290.	5.8	19
150	Observation of optical feedback dynamics in single-mode terahertz quantum cascade lasers: Transient instabilities. <i>Physical Review A</i> , 2021, 103, .	1.0	19
151	Tunable broadband terahertz polarizer using graphene-metal hybrid metasurface. <i>Optics Express</i> , 2019, 27, 33768.	1.7	19
152	Emission of collimated THz pulses from photo-excited semiconductors. <i>Semiconductor Science and Technology</i> , 2004, 19, S449-S451.	1.0	18
153	On-chip photoconductive excitation and detection of pulsed terahertz radiation at cryogenic temperatures. <i>Applied Physics Letters</i> , 2006, 88, 142103.	1.5	18
154	Broadband terahertz time-domain and Raman spectroscopy of explosives. , 2007, 6549, 40.		18
155	Distributed feedback terahertz frequency quantum cascade lasers with dual periodicity gratings. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	18
156	Diffraction-limited ultrabroadband terahertz spectroscopy. <i>Scientific Reports</i> , 2016, 6, 24811.	1.6	18
157	Monolithic echo-less photoconductive switches as a high-resolution detector for terahertz time-domain spectroscopy. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	18
158	High-sensitivity colorimetric detection of DNA hybridization on a gold surface with high spatial resolution. <i>Nanotechnology</i> , 2003, 14, 7-10.	1.3	17
159	Influence of the Thiol Position on the Attachment and Subsequent Hybridization of Thiolated DNA on Gold Surfaces. <i>Langmuir</i> , 2004, 20, 1527-1530.	1.6	17
160	Establishment of the ac electrokinetic elongation mechanism of DNA by three-dimensional fluorescent imaging. <i>Applied Physics Letters</i> , 2006, 88, 153901.	1.5	17
161	On-chip pulsed terahertz systems and their applications. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2007, 27, 557-569.	0.6	17
162	The growth and measurement of terahertz quantum cascade lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1859-1861.	1.3	17

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163	Optimized surface-emitting photonic-crystal terahertz quantum cascade lasers with reduced resonator dimensions. <i>Applied Physics Letters</i> , 2010, 97, 131101.	1.5	17
164	Room temperature strong light-matter coupling in three dimensional terahertz meta-atoms. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	17
165	Quasi-continuous frequency tunable terahertz quantum cascade lasers with coupled cavity and integrated photonic lattice. <i>Optics Express</i> , 2017, 25, 486.	1.7	17
166	Continuous Frequency Tuning with near Constant Output Power in Coupled Y-Branched Terahertz Quantum Cascade Lasers with Photonic Lattice. <i>ACS Photonics</i> , 2018, 5, 2912-2920.	3.2	17
167	Photoconductive arrays on insulating substrates for high-field terahertz generation. <i>Optics Express</i> , 2020, 28, 17219.	1.7	17
168	Terahertz quantum cascade lasers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 215-231.	1.6	16
169	High order sideband generation in terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	16
170	Model for a pulsed terahertz quantum cascade laser under optical feedback. <i>Optics Express</i> , 2016, 24, 20554.	1.7	16
171	Infinite-Period Density-Matrix Model for Terahertz-Frequency Quantum Cascade Lasers. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2017, 7, 368-377.	2.0	16
172	Ultrafast switch-on dynamics of frequency-tuneable semiconductor lasers. <i>Nature Communications</i> , 2018, 9, 3076.	5.8	16
173	Highly efficient surface-emitting semiconductor lasers exploiting quasi-crystalline distributed feedback photonic patterns. <i>Light: Science and Applications</i> , 2020, 9, 54.	7.7	16
174	Self-Induced Phase Locking of Terahertz Frequency Combs in a Phase-Sensitive Hyperspectral Near-Field Nanoscope. <i>Advanced Science</i> , 2022, 9, .	5.6	16
175	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.	1.9	15
176	Multi-spectral terahertz sensing: proposal for a coupled-cavity quantum cascade laser based optical feedback interferometer. <i>Optics Express</i> , 2017, 25, 10153.	1.7	15
177	Ultrafast two-dimensional field spectroscopy of terahertz intersubband saturable absorbers. <i>Optics Express</i> , 2019, 27, 2248.	1.7	15
178	Detection sensitivity of laser feedback interferometry using a terahertz quantum cascade laser. <i>Optics Letters</i> , 2019, 44, 3314.	1.7	15
179	Three key questions on fractal conductance fluctuations: Dynamics, quantization, and coherence. <i>Physical Review B</i> , 2004, 70, .	1.1	14
180	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.	1.1	14

#	ARTICLE	IF	CITATIONS
181	On-chip terahertz spectroscopic techniques for measuring mesoscopic quantum systems. Review of Scientific Instruments, 2013, 84, 085101.	0.6	14
182	Terahertz quantum cascade lasers with thin resonant-phonon depopulation active regions and surface-plasmon waveguides. Journal of Applied Physics, 2013, 113, 113110.	1.1	14
183	Effect of Molecular Size and Particle Shape on the Terahertz Absorption of a Homologous Series of Tetraalkylammonium Salts. Analytical Chemistry, 2013, 85, 7926-7934.	3.2	14
184	Phase-locked arrays of surface-emitting graded-photonics-heterostructure terahertz semiconductor lasers. Optics Express, 2015, 23, 6915.	1.7	14
185	Coherent terahertz microscopy of modal field distributions in micro-resonators. APL Photonics, 2021, 6, .	3.0	14
186	Dependence of fractal conductance fluctuations on soft-wall profile in a double-layer semiconductor billiard. Applied Physics Letters, 2002, 80, 4381-4383.	1.5	13
187	AC electrokinetic manipulation of DNA. Journal Physics D: Applied Physics, 2007, 40, 114-118.	1.3	13
188	Impact of disorder on frequency scaling in the integer quantum Hall effect. Physical Review B, 2011, 84, .	1.1	13
189	Low temperature near-field scanning optical microscopy on infrared and terahertz photonic-crystal quantum cascade lasers. Applied Physics Letters, 2011, 98, .	1.5	13
190	Nanospectroscopy of a single patch antenna strongly coupled to a mid-infrared intersubband transition in a quantum well. Applied Physics Letters, 2020, 117, .	1.5	13
191	External cavity terahertz quantum cascade laser with a metamaterial/graphene optoelectronic mirror. Applied Physics Letters, 2020, 117, .	1.5	13
192	Directed Assembly of 3-nm-long RecA Nucleoprotein Filaments on Double-Stranded DNA with Nanometer Resolution. ACS Nano, 2014, 8, 3322-3330.	7.3	12
193	Near-Field Analysis of Terahertz Pulse Generation From Photo-Excited Charge Density Gradients. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 260-267.	2.0	12
194	Mode Selection and Tuning Mechanisms in Coupled-Cavity Terahertz Quantum Cascade Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-12.	1.9	12
195	Two-dimensional coherent spectroscopy of a THz quantum cascade laser: observation of multiple harmonics. Optics Express, 2017, 25, 21753.	1.7	12
196	Gas spectroscopy with integrated frequency monitoring through self-mixing in a terahertz quantum-cascade laser. Optics Letters, 2018, 43, 2225.	1.7	12
197	Mixing Properties of Room Temperature Patch Antenna Receivers in a Mid-Infrared (1.9 $\mu\text{m}$ ) Heterodyne System. Laser and Photonics Reviews, 2020, 14, 1900207.	4.4	12
198	In-assisted desorption of native GaAs surface oxides. Applied Physics Letters, 2011, 99, 061910.	1.5	11

#	ARTICLE	IF	CITATIONS
199	Redox-Induced Conformational Change in Mercaptoalkanoic Acid Multilayer Films. Langmuir, 2012, 28, 6632-6637.	1.6	11
200	Transient Analysis of THz-QCL Pulses Using NbN and YBCO Superconducting Detectors. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 172-179.	2.0	11
201	Planar integrated metasurfaces for highly-collimated terahertz quantum cascade lasers. Scientific Reports, 2014, 4, 7083.	1.6	11
202	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. Optics Express, 2016, 24, 2174.	1.7	11
203	Field-enhanced direct tunneling in ultrathin atomic-layer-deposition-grown $\text{Au}/\text{Cr}/\text{O}/\text{Cr}/\text{Au}$ metal-insulator-metal structures. Physical Review B, 2017, 96, .	1.1	11
204	Dielectrophoretic manipulation of surface-bound DNA. IET Nanobiotechnology, 2003, 150, 54.	2.1	10
205	Observation of far-infrared emission from excited cytosine molecules. Applied Physics Letters, 2005, 87, 011105.	1.5	10
206	Multimode, Aperiodic Terahertz Surface-Emitting Laser Resonators. Photonics, 2016, 3, 32.	0.9	10
207	Origin of terminal voltage variations due to self-mixing in terahertz frequency quantum cascade lasers. Optics Express, 2016, 24, 21948.	1.7	10
208	Extraction-controlled terahertz frequency quantum cascade lasers with a diagonal LO-phonon extraction and injection stage. Optics Express, 2016, 24, 28583.	1.7	10
209	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.	1.1	10
210	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, .	1.5	10
211	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.	2.0	10
212	Noise characterization of patch antenna THz photodetectors. Applied Physics Letters, 2018, 113, .	1.5	10
213	Giant optical nonlinearity interferences in quantum structures. Science Advances, 2019, 5, eaaw7554.	4.7	10
214	Gas spectroscopy through multimode self-mixing in a double-metal terahertz quantum cascade laser. Optics Letters, 2018, 43, 5933.	1.7	10
215	Field-resolved high-order sub-cycle nonlinearities in a terahertz semiconductor laser. Light: Science and Applications, 2021, 10, 246.	7.7	10
216	Intrinsic coupling mechanisms between two-dimensional electron systems in double quantum well structures. Physical Review B, 1999, 59, 7669-7678.	1.1	9

#	ARTICLE	IF	CITATIONS
217	Generic Technique to Generate Large Branched DNA Complexes. <i>Biomacromolecules</i> , 2006, 7, 677-681.	2.6	9
218	Nanoscale programmable sequence-specific patterning of DNA scaffolds using RecA protein. <i>Nanotechnology</i> , 2012, 23, 365301.	1.3	9
219	Narrow-band injection seeding of a terahertz frequency quantum cascade laser: Selection and suppression of longitudinal modes. <i>Applied Physics Letters</i> , 2014, 105, 111113.	1.5	9
220	THz waveguide adapters for efficient radiation out-coupling from double metal THz QCLs. <i>Optics Express</i> , 2015, 23, 5190.	1.7	9
221	Active phase-nulling of the self-mixing phase in a terahertz frequency quantum cascade laser. <i>Optics Letters</i> , 2015, 40, 950.	1.7	9
222	Determining Ethanol Content of Liquid Solutions Using Laser Feedback Interferometry with a Terahertz Quantum Cascade Laser. , 2018, 2, 1-4.		9
223	Terahertz master-oscillator power-amplifier quantum cascade laser with a grating coupler of extremely low reflectivity. <i>Optics Express</i> , 2018, 26, 1942.	1.7	9
224	Effect of Chain Length on the Assembly of Mercaptoalkanoic Acid Multilayer Films Ligated through Divalent Cu Ions. <i>Langmuir</i> , 2011, 27, 1033-1037.	1.6	8
225	Wideband Electrically Controlled Vernier Frequency Tunable Terahertz Quantum Cascade Laser. <i>ACS Photonics</i> , 2020, 7, 765-773.	3.2	8
226	Tunneling gap collapse and $\nu=2$ quantum Hall state in a bilayer electron system. <i>Physical Review B</i> , 2002, 66, .	1.1	7
227	The fabrication of embedded co-planar electrodes using a self-assembled monolayer molecular resist. <i>Nanotechnology</i> , 2009, 20, 155304.	1.3	7
228	Directed surface attachment of nanomaterials via coiled-coil-driven self-assembly. <i>Nanotechnology</i> , 2012, 23, 495304.	1.3	7
229	On-Surface Assembly of Coiled-Coil Heterodimers. <i>Langmuir</i> , 2012, 28, 13877-13882.	1.6	7
230	Non-universality of scaling exponents in quantum Hall transitions. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 475801.	0.7	7
231	3.5 THz quantum-cascade laser emission from dual diagonal feedhorns. <i>International Journal of Microwave and Wireless Technologies</i> , 2019, 11, 909-917.	1.5	7
232	All-Electronic Phase-Resolved THz Microscopy Using the Self-Mixing Effect in a Semiconductor Laser. <i>ACS Photonics</i> , 2021, 8, 1001-1006.	3.2	7
233	Terahertz photonic integrated circuit for frequency tuning and power modulation. <i>Optics Express</i> , 2020, 28, 4374.	1.7	7
234	Effects of using As <sub>2</sub> and As <sub>4</sub> on the optical properties of InGaAs quantum rods grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2010, 108, 103522.	1.1	6

#	ARTICLE	IF	CITATIONS
235	Measurement and analysis of the diffuse reflectance of powdered samples at terahertz frequencies using a quantum cascade laser. <i>Journal of Chemical Physics</i> , 2011, 134, 134304.	1.2	6
236	Resonant-phonon depopulation terahertz quantum cascade lasers and their application in spectroscopic imaging. <i>Semiconductor Science and Technology</i> , 2012, 27, 094004.	1.0	6
237	Label-free electrochemical biosensors for clinical diagnostic. , 2014, , .		6
238	Frequency and amplitude modulation of ultra-compact terahertz quantum cascade lasers using an integrated avalanche diode oscillator. <i>Scientific Reports</i> , 2016, 6, 23053.	1.6	6
239	Enhancement of RecA-mediated self-assembly in DNA nanostructures through basepair mismatches and single-strand nicks. <i>Scientific Reports</i> , 2017, 7, 41081.	1.6	6
240	The Development of a Semtex-H Simulant for Terahertz Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017, 38, 325-338.	1.2	6
241	Compact and sensitive heterodyne receiver at 2.7 THz exploiting a quasi-optical HEB-QCL coupling scheme. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	6
242	Chip-Scale Terahertz Frequency Combs through Integrated Intersubband Polariton Bleaching. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000575.	4.4	6
243	Terahertz quantum cascade laser under optical feedback: effects of laser self-pulsations on self-mixing signals. <i>Optics Express</i> , 2021, 29, 39885.	1.7	6
244	Terahertz imaging with self-pulsations in quantum cascade lasers under optical feedback. <i>APL Photonics</i> , 2021, 6, 091301.	3.0	6
245	Integrated injection seeded terahertz source and amplifier for time-domain spectroscopy. <i>Optics Letters</i> , 2012, 37, 731.	1.7	5
246	Time-resolved measurement of pulse-to-pulse heating effects in a terahertz quantum cascade laser using an NbN superconducting detector. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	5
247	Patch antenna microcavity terahertz sources with enhanced emission. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	5
248	Micro-homology intermediates: RecA's transient sampling revealed at the single molecule level. <i>Nucleic Acids Research</i> , 2021, 49, 1426-1435.	6.5	5
249	Optomechanical response with nanometer resolution in the self-mixing signal of a terahertz quantum cascade laser. <i>Optics Letters</i> , 2019, 44, 5663.	1.7	5
250	Time-domain terahertz spectroscopy and applications on drugs and explosives. , 2007, , .		4
251	Increasing the bandwidth of planar on-chip THz devices for spectroscopic applications. , 2011, , .		4
252	RecA Protein Mediated Nano-Scale Patterning of DNA Scaffolds. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 10629-10632.	0.9	4

#	ARTICLE	IF	CITATIONS
253	DNA self-assembly-driven positioning of molecular components on nanopatterned surfaces. <i>Nanotechnology</i> , 2016, 27, 395301.	1.3	4
254	Diffuse-Reflectance Spectroscopy Using a Frequency-Switchable Terahertz Quantum Cascade Laser. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 341-347.	2.0	4
255	Confinement of picosecond timescale current pulses by tapered coplanar waveguides. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	4
256	Full-wave modelling of terahertz frequency plasmons in two-dimensional electron systems. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 215101.	1.3	4
257	Terahertz magnetoplasmon resonances in coupled cavities formed in a gated two-dimensional electron gas. <i>Optics Express</i> , 2021, 29, 12958.	1.7	4
258	Probing temperature- and solvent-dependent protein dynamics using terahertz time-domain spectroscopy. <i>Journal of Applied Crystallography</i> , 2014, 47, 146-153.	1.9	4
259	Light-induced Difference Terahertz Spectroscopy. <i>Journal of Biological Physics</i> , 2003, 29, 135-139.	0.7	3
260	Terahertz quantum cascade lasers. , 2003, , .		3
261	Monolithic integration of low-temperature-grown GaAs with a two-dimensional electron gas. <i>Semiconductor Science and Technology</i> , 2007, 22, 811-813.	1.0	3
262	Phase locking of a 2.5 THz quantum cascade laser to a microwave reference using THz Schottky mixer. , 2015, , .		3
263	Optical sideband generation up to room temperature with mid-infrared quantum cascade lasers. <i>Optics Express</i> , 2015, 23, 4012.	1.7	3
264	Improving the Out-Coupling of a Metal-Metal Terahertz Frequency Quantum Cascade Laser Through Integration of a Hybrid Mode Section into the Waveguide. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016, 37, 426-434.	1.2	3
265	A high electron mobility phonotransistor. <i>Communications Physics</i> , 2018, 1, .	2.0	3
266	Terahertz emission from localized modes in one-dimensional disordered systems [Invited]. <i>Photonics Research</i> , 2018, 6, 117.	3.4	3
267	Effect of mesa geometry on low-terahertz frequency range plasmons in two-dimensional electron systems. <i>Journal Physics D: Applied Physics</i> , 0, , .	1.3	3
268	Exact frequency and phase control of a terahertz laser. <i>Optica</i> , 2020, 7, 1143.	4.8	3
269	Monitoring Water Dynamics in Plants using Laser Feedback Interferometry. , 2020, , .		3
270	A patterned gate architecture for the study of high-quality AlGaAs/GaAs systems in the extreme quantum limit. <i>Semiconductor Science and Technology</i> , 1994, 9, 392-397.	1.0	2



#	ARTICLE	IF	CITATIONS
271	Magneto-optical probe of the two-dimensional hole-system low-temperature ground states. <i>Physical Review B</i> , 1995, 51, 7357-7360.	1.1	2
272	Quantum electronics: the physics and technology of low-dimensional electronic systems into the new millennium. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000, 358, 151-172.	1.6	2
273	THz generation using 800 to 1550 nm excitation of photoconductors. , 2009, , .		2
274	On-chip THz generation and detection at milli-Kelvin temperatures for the study of ultrafast phenomena in confined semiconductor systems. , 2012, , .		2
275	LOCUS: Low cost upper atmosphere sounder. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
276	THz-TDS analysis of hidden explosives for homeland security scenarios. , 2013, , .		2
277	The quantum percolation model of the scaling theory of the quantum Hall effect: a unifying model for plateau-to-plateau transitions. <i>Journal of Physics: Conference Series</i> , 2013, 456, 012007.	0.3	2
278	Mapping the distribution of photo-currents responsible for generation of terahertz pulses at semiconductor surfaces. , 2014, , .		2
279	Multilayer extraction of complex refractive index in broadband transmission terahertz time-domain spectroscopy. , 2016, , .		2
280	Development of Terahertz Frequency Quantum Cascade Lasers for the Applications as Local Oscillators. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2017, , 123-134.	0.2	2
281	Terahertz generation mechanism in nano-grating electrode photomixers on Fe-doped InGaAsP. <i>Optics Express</i> , 2017, 25, 10177.	1.7	2
282	Photoconductive Arrays for High-Field Terahertz Generation. , 2019, , .		2
283	Terahertz master-oscillator power-amplifier quantum Cascade laser with controllable polarization. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	2
284	Terahertz Quantum Cascade Lasers with Integrated Plasmonic Collimators. , 2010, , .		2
285	Terahertz Graphene Modulator Integrated with Quantum Cascade Laser Achieving 100% Modulation Depth. , 2016, , .		2
286	Modeling and improving the output power of terahertz master-oscillator power-amplifier quantum cascade lasers. <i>Optics Express</i> , 2020, 28, 23239.	1.7	2
287	A $\lambda$ -Janus double sided mid-IR photodetector based on a MIM architecture. <i>Applied Physics Letters</i> , 2021, 119, 181102.	1.5	2
288	Temperature-Dependent Far-Infrared Spectra of Explosives and Drugs Measured by Terahertz Time-Domain Spectroscopy. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
289	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
290	Three-dimensional characterisation of the non-gaussian focused beam from a terahertz quantum cascade laser. , 2007, , .		1
291	Diffuse reflection imaging at terahertz frequencies for security applications. Proceedings of SPIE, 2007, , .	0.8	1
292	Broadband terahertz time-domain spectroscopy of drugs-of-abuse mixtures and &#x2018;street&#x2018; samples. , 2008, , .		1
293	Dual-frequency imaging using an electrically tunable terahertz quantum cascade laser. , 2009, , .		1
294	Acoustic charge transport in graphene. , 2012, , .		1
295	Surface acoustic wave modulation of quantum cascade lasers. , 2013, , .		1
296	Self-mixing effect in THz quantum cascade lasers: Applications in sensing and imaging. , 2013, , .		1
297	Mode-locked terahertz quantum cascade laser by direct phase synchronization. AIP Conference Proceedings, 2013, , .	0.3	1
298	Terahertz time-domain spectroscopy of lysozyme and mouse urinary protein single crystals. , 2013, , .		1
299	Phase-locking of surface-emitting THz quantum cascade laser arrays. Proceedings of SPIE, 2013, , .	0.8	1
300	THz QCL self-mixing interferometry for biomedical applications. , 2014, , .		1
301	Observation of time-resolved gain dynamics in a terahertz quantum cascade laser. , 2015, , .		1
302	Terahertz pulse generation from quantum cascade lasers. , 2015, , .		1
303	Pump-probe measurements of gain in a terahertz quantum cascade laser. , 2016, , .		1
304	Accurate parameter extraction from liquids measured using on-chip terahertz spectroscopy. , 2016, , .		1
305	Optical feedback effects on terahertz quantum cascade lasers: modelling and applications. , 2016, , .		1
306	Terahertz frequency quantum cascade lasers: Optical feedback effects and applications. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
307	Fully Phase Stabilized Quantum Cascade Laser Frequency Comb. , 2019, , .		1
308	Waveguide-integrated THz Quantum-Cascade Lasers for Atmospheric-Research Satellite Payloads. , 2019, , .		1
309	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.	2.0	1
310	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.	0.2	1
311	Sub-surface damage detection in marble structures using THz time domain and laser feedback interferometric imaging techniques. , 2021, , .		1
312	Semiconductor Billiards ? a Controlled Environment to Study Fractals. Physica Scripta, 2001, T90, 41.	1.2	1
313	Amorphous Random Lasing at Terahertz Frequency. , 2016, , .		1
314	Graphene Saturable Absorbers at Terahertz Frequency from Liquid Phase Exfoliation of Graphite. , 2018, , .		1
315	Development of Terahertz Quantum-Cascade Lasers for Satellite-Borne Measurement of Key Gas Species. , 2019, , .		1
316	Increasing the sensitivity of terahertz metamaterials for dielectric sensing by substrate etching. , 2020, , .		1
317	Molecular and Organic Interactions. , 0, , 91-106.		1
318	Independent Control of Mode Selection and Power Extraction in Terahertz Semiconductor Lasers. ACS Photonics, 2022, 9, 1973-1983.	3.2	1
319	The Growth and Physics of MBE Structures. Physica Scripta, 1989, T29, 141-146.	1.2	0
320	Universal dissipative resistivity in the fractional quantum Hall effect of two-dimensional hole systems. Physical Review B, 1995, 52, R5507-R5510.	1.1	0
321	Tuning of the intersubband emission below the longitudinal optical phonon energy in GaAs/AlGaAs quantum cascade emitters. Applied Physics Letters, 2003, 83, 1063-1065.	1.5	0
322	Continuous-wave terahertz imaging using diode lasers. , 2004, , .		0
323	Cryogenic excitation and detection of terahertz radiation in microstrip circuits. , 2006, , .		0
324	Guided-wave Terahertz devices for sensing the properties of overlaid dielectric films. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
325	Measurement and simulation of the sensitivity of terahertz frequency range passive filter elements to overlaid dielectrics. , 2006, , .		0
326	Modal perturbation of terahertz quantum cascade lasers. , 2006, , .		0
327	Phase Effects In Terahertz Pulsed Imaging. , 2006, , .		0
328	Cyclotron absorption in two-dimensional electron systems monitored by terahertz time-domain spectroscopy. , 2007, , .		0
329	Evanescent-field Terahertz time-domain microscopy. , 2007, , .		0
330	Temperature dependent and magnetic field dependent terahertz spectroscopy of $\text{In}_{1-x}\text{Mn}_x\text{As}$ . , 2007, , .		0
331	Temperature dependent and magnetic field dependent terahertz spectroscopy of $\text{In}_{1-x}\text{Mn}_x\text{As}$ . , 2007, , .		0
332	Three-dimensional Characterisation of the Non-Gaussian Focused Beam from a Terahertz Quantum Cascade Laser. , 2007, , .		0
333	Large branched self-assembled DNA complexes. Journal of Physics: Conference Series, 2007, 61, 1241-1245.	0.3	0
334	Sub-wavelength imaging of terahertz dielectric permittivity using planar resonant circuits. , 2008, , .		0
335	Terahertz vibrational absorption resonances observed using on-chip terahertz circuits. , 2008, , .		0
336	Terahertz frequency quantum cascade lasers operating up to 178 K with copper metal-metal waveguides. , 2008, , .		0
337	Terahertz goubau waveguides with integrated photoconductive emitters and mode discriminating detectors. , 2009, , .		0
338	Flip-chip fabrication of nanoscale co-planar embedded electrodes with controlled exposed areas. Nanotechnology, 2010, 21, 455301.	1.3	0
339	Multiple-frequency imaging using a terahertz quantum cascade laser. , 2010, , .		0
340	Self-mixing interferometry with a terahertz Quantum Cascade Laser: Feedback induced voltage signal. , 2010, , .		0
341	Terahertz spectral measurements of a homologous organic series. , 2010, , .		0
342	Terahertz quantum cascade lasers with angled facets for monolithic integration. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
343	Terahertz time-domain spectroscopy of protein single crystals. , 2010, , .		0
344	Gain switching of a terahertz quantum cascade laser for THz pulse amplification. , 2010, , .		0
345	Gain studies of phonon-depopulation based terahertz quantum cascade lasers using terahertz time domain spectroscopy. , 2010, , .		0
346	Calculation of terahertz active normal modes in organic crystals. , 2010, , .		0
347	GaAs/Al<math>\inf\gt;0.15\inf\gt;/\inf\gt;Ga\inf\gt;0.85\inf\gt;/\inf\gt;As terahertz quantum cascade lasers with double-phonon resonant depopulation operating up to 172 K. , 2011, , .		0
348	Intersubband Raman laser for operation in terahertz. , 2011, , .		0
349	Terahertz sensing and imaging using a quantum cascade laser. , 2011, , .		0
350	Terahertz Time Domain Spectroscopy of Phonon-Depopulation Based Quantum Cascade Lasers. AIP Conference Proceedings, 2011, , .	0.3	0
351	Vertical Sub-Wavelength Mode Confinement in THz Quantum Cascade Lasers. , 2011, , .		0
352	Terahertz Amplifier Based On Gain Switching In a Quantum Cascade Laser. AIP Conference Proceedings, 2011, , .	0.3	0
353	Coherent detection of an active mode-locked terahertz quantum cascade laser. , 2011, , .		0
354	Photonic heterostructures: A new concept for high power surface emission in THz quantum cascade lasers. , 2011, , .		0
355	Ultrafast gain switching of THz quantum cascade lasers. Proceedings of SPIE, 2011, , .	0.8	0
356	Active-mode-locked terahertz quantum cascade lasers. , 2011, , .		0
357	Ultra-fast sampling of terahertz pulses from a quantum cascade laser using superconducting antenna-coupled NbN and YBCO detectors. , 2012, , .		0
358	Single-mode narrow beam divergence surface-emitting concentric-circular-grating terahertz quantum cascade lasers. , 2012, , .		0
359	Acousto-microfluidics: Trapping and transporting microbubbles using surface acoustic waves. , 2012, , .		0
360	High power extraction in (THz) surface-emitting lasers using type-II photonic heterostructures. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
361	Coherent terahertz systems. , 2012, , .		0
362	Time domain measurements of the sampling coherence of a terahertz quantum cascade laser. , 2012, , .		0
363	Injection seeding dynamics of THz quantum cascade lasers. , 2012, , .		0
364	Photothermoelastic response of zinblende crystals to radiation from a THz-frequency quantum cascade laser. , 2013, , .		0
365	Transient analysis of substrate heating effects in a terahertz quantum cascade laser using an ultrafast NbN superconducting detector. , 2013, , .		0
366	Phase-locked arrays of surface-emitting terahertz distributed feedback quantum cascade lasers. , 2013, , .		0
367	Detection of terahertz frequency radiation via the photothermoelastic response of zinblende crystals. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 3151.	0.9	0
368	Optimization and application of on-chip terahertz Goubau lines. , 2013, , .		0
369	High order optical sideband generation with Terahertz quantum cascade lasers. , 2013, , .		0
370	Spectroscopic analysis of powders through diffuse-reflectance imaging using a frequency-switchable terahertz quantum cascade laser. , 2013, , .		0
371	Understanding the influence of morphology on the terahertz spectra of a powdered ionic crystalline system. , 2013, , .		0
372	A QCL model with integrated thermal and stark rollover mechanisms. , 2014, , .		0
373	Injection seeding of metal-metal terahertz quantum cascade lasers. , 2014, , .		0
374	Narrow bandwidth injection seeding of a THz quantum cascade laser. , 2014, , .		0
375	Enhancing the Gain by Quantum Coherence in Terahertz Quantum Cascade Lasers. , 2014, , .		0
376	The Development and Applications of Terahertz Quantum Cascade Lasers. , 2014, , .		0
377	Switching circuit to improve the frequency modulation difference-intensity THz quantum cascade laser imaging. AIP Conference Proceedings, 2015, , .	0.3	0
378	Injection seeding and modelocking of metal-metal Terahertz quantum cascade lasers. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
379	Optical sideband generation up to room temperature with mid-infrared quantum cascade lasers. , 2015, , .		0
380	Far-field engineering of metal-metal terahertz quantum cascade lasers with integrated horn antennas. , 2015, , .		0
381	Terahertz quantum cascade laser bandwidth prediction. , 2015, , .		0
382	Antenna-coupled microcavity enhanced THz photodetectors. , 2015, , .		0
383	Waveguide-integrated terahertz-frequency quantum cascade lasers for detection of trace-gas species. , 2015, , .		0
384	Terahertz quantum cascade lasers &#x2014; The past, present, and potential future. , 2015, , .		0
385	On-chip THz-frequency tuneable plasmonic circuits. , 2015, , .		0
386	Accurate material parameter extraction from broadband terahertz spectroscopy. , 2015, , .		0
387	Spatially resolved on-chip picosecond pulse detection using graphene. , 2015, , .		0
388	Metal-metal terahertz quantum cascade laser with hybrid mode section. , 2015, , .		0
389	Generation of continuous wave terahertz radiation from Fe-doped InGaAs and InGaAsP. , 2015, , .		0
390	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. , 2016, , .		0
391	Nonlinear frequency mixing in quantum cascade lasers: Towards broadband wavelength shifting and THz up-conversion. , 2016, , .		0
392	Short pulse generation and dispersion in THz quantum cascade lasers. , 2016, , .		0
393	Terahertz near-field microscopy using the self-mixing effect in a quantum cascade laser. , 2016, , .		0
394	Low divergent, high-power, single-mode terahertz wire lasers. , 2016, , .		0
395	Feedhorn-integrated THz QCL local oscillators for the LOCUS atmospheric sounder. , 2016, , .		0
396	Terahertz emission mechanism and laser excitation position dependence of nano-grating electrode photomixers. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
397	Estimation of spectroscopic uncertainty and correlation in terahertz time domain spectroscopy. , 2016, , .		0
398	Terahertz frequency quantum cascade lasers for use as waveguide-integrated local oscillators. , 2016, , .		0
399	Focusing THz radiation in $\hat{1}/4$ m-scale waveguides. , 2017, , .		0
400	THz-TDS of liquids in a temperature-controlled transmission flowcell. , 2017, , .		0
401	3.5 THz dual feedhorn quantum cascade laser a step towards achievng a frequency stable supra-THz heterodyne local oscillator. , 2017, , .		0
402	Monolithic echo-less photoconductive switches for high-resolution terahertz time-domain spectroscopy. , 2017, , .		0
403	GMR at THz frequencies in coplanar waveguides. , 2017, , .		0
404	Investigation into free-space terahertz radiation from a LT-GaAs-on-quartz photoconductive emitter. , 2017, , .		0
405	Terahertz Emission in One-Dimensional Disordered Systems. , 2017, , .		0
406	THz quantum cascade laser frequency combs. , 2019, , .		0
407	Probing Ultrafast Switch-on Dynamics of Frequency Tuneable Semiconductor Lasers Using Terahertz Time-domain Spectroscopy. , 2019, , .		0
408	Continuously Tunable Coherent THz Synthesizer, Referenced to Primary Frequency Standards. , 2019, , .		0
409	Highly Sensitive and Compact THz heterodyne receiver based on HEB and QCL at 2.7 THz. , 2019, , .		0
410	Electromagnetic-field analysis of diagonal-feedhorn antennas for terahertz-frequency quantum-cascade laser integration. , 2019, , .		0
411	High sensitivity $9\hat{1}/4$ m metamaterial Infrared QC detectors at 300K. , 2019, , .		0
412	Programmable, Transform-Limited Pulses from a Terahertz Quantum Cascade Laser. ACS Photonics, 2020, 7, 2423-2428.	3.2	0
413	Corrections to $\hat{\text{a}}\text{e}$ Mode Selection and Tuning Mechanisms in Coupled-Cavity Terahertz Quantum Cascade Lasers $\hat{\text{a}}\text{e}$ [Jul/Aug 17 Art. no. 1200312]. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-1.	1.9	0
414	Reshaping the emission of a THz quantum cascade laser frequency comb through an on-chip graphene modulator. , 2021, , .		0



#	ARTICLE	IF	CITATIONS
415	Waveguide integrated terahertz quantum-cascade laser systems. , 2021, , .		0
416	Enhanced light-matter coupling and optical pumping of THz intersubband polaritons. , 2021, , .		0
417	Transverse mode control of high-power single plasmon terahertz frequency quantum cascade lasers. , 2021, , .		0
418	Millimeter Wave Photonics with Terahertz Semiconductor Lasers. , 2021, , .		0
419	Magnetic field enhanced terahertz emission from semiconductor surfaces. Springer Proceedings in Physics, 2001, , 178-179.	0.1	0
420	Terahertz quantum cascade lasers operating up to 178 K with copper metal-metal waveguides. , 2008, , .		0
421	Low divergence, single-lobed, surface emission from THz photonic-crystal quantum cascade lasers. , 2009, , .		0
422	Terahertz amplifier based on gain switching in a quantum cascade laser. , 2010, , .		0
423	Terahertz time domain spectroscopy of phonondepoulation based quantum cascade lasers. , 2010, , .		0
424	Integrated injection seeded THz source and amplifier for time-domain spectroscopy. , 2012, , .		0
425	Optical wavelength shifting using resonant non-linearities in THz quantum cascade lasers. , 2012, , .		0
426	Coherent THz imaging using the self-mixing effect in quantum cascade lasers. , 2014, , .		0
427	Biomedical applications of terahertz self-mixing interferometry. SPIE Newsroom, 0, , .	0.1	0
428	Terahertz pulse generation from metal-metal quantum cascade lasers. , 2016, , .		0
429	GHz Heterodyne generation using Two DFB Mid-IR QCL lasers on a 9 $\frac{1}{4}$ m QWIP. , 2018, , .		0
430	Continuous Frequency Tuning of Y-Branched Terahertz Quantum Cascade Lasers with Photonic Lattice. , 2018, , .		0
431	Pulsed Photoconductive Connected Slot Array Operating at the Sub-mm Wavelength Band. , 2019, , .		0
432	Quasi-static and propagating modes in three-dimensional THz circuits. Optics Express, 2020, 28, 16982.	1.7	0

#	ARTICLE	IF	CITATIONS
433	Spectral analysis of a gas-phase reaction using self-mixing in a terahertz quantum cascade laser. , 2020, , .		0
434	Development of a Broadband Multidimensional THz Spectrometer. , 2020, , .		0
435	Ultrafast THz intersubband polariton saturable absorber integrated with a quantum cascade frequency comb. , 2020, , .		0
436	On-chip terahertz spectroscopy of magnetoplasmons in a two-dimensional electron gas. , 2020, , .		0
437	Broadband Nonlinear Spectroscopy of Hydrogen-Like Levels in Ge: As. , 2020, , .		0
438	Semiconductor THz frequency combs exploiting solution processed graphene. , 2020, , .		0
439	Giant optical nonlinearity interferences in Terahertz quantum structures. , 2020, , .		0
440	Highly efficient one-dimensional quasi-crystalline THz semiconductor lasers. , 2020, , .		0