

Edmund H Linfield

List of Publications by Year in descending order

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606
papers

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616
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times ranked

10664
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 pulse imaging in reflection geometry of human skin cancer and skin tissue. <i>Physics in Medicine and Biology</i> , 2002, 47, 3853-3863.	1.6	599
4	Terahertz spectroscopy of explosives and drugs. <i>Materials Today</i> , 2008, 11, 18-26.	8.3	447
5	Terahertz Pulse Imaging of ex vivo Basal Cell Carcinoma. <i>Journal of Investigative Dermatology</i> , 2003, 120, 72-78.	0.3	375
6	Electrically pumped photonic-crystal terahertz lasers controlled by boundary conditions. <i>Nature</i> , 2009, 457, 174-178.	13.7	334
7	Simulation of terahertz generation at semiconductor surfaces. <i>Physical Review B</i> , 2002, 65, .	1.1	308
8	Terahertz pulsed imaging of skin cancer in the time and frequency domain. <i>Journal of Biological Physics</i> , 2003, 29, 257-259.	0.7	274
9	Designer spoof surface plasmon structures collimate terahertz laser beams. <i>Nature Materials</i> , 2010, 9, 730-735.	13.3	260
10	Metal-Insulator Transition at $B=0$ in a Dilute Two Dimensional GaAs-AlGaAs Hole Gas. <i>Physical Review Letters</i> , 1998, 80, 1292-1295.	2.9	233
11	2.9THz quantum cascade lasers operating up to 70K in continuous wave. <i>Applied Physics Letters</i> , 2004, 85, 1674-1676.	1.5	228
12	Single-electron transport in a one-dimensional channel by high-frequency surface acoustic waves. <i>Physical Review B</i> , 1997, 56, 15180-15184.	1.1	219
13	Far-infrared (≈ 0.4 to 1 mm) bound-to-continuum quantum-cascade lasers operating up to 90 K. <i>Applied Physics Letters</i> , 2003, 82, 3165-3167.	1.5	219
14	Low-threshold terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2002, 81, 1381-1383.	1.5	203
15	Room-temperature nine- μm -wavelength photodetectors and GHz-frequency heterodyne receivers. <i>Nature</i> , 2018, 556, 85-88.	13.7	197
16	Terahertz range quantum well infrared photodetector. <i>Applied Physics Letters</i> , 2004, 84, 475-477.	1.5	195
17	Terahertz quantum cascade lasers with copper metal-metal waveguides operating up to 178 K. <i>Optics Express</i> , 2008, 16, 3242.	1.7	194
18	Coherent sampling of active mode-locked terahertz quantum cascade lasers and frequency synthesis. <i>Nature Photonics</i> , 2011, 5, 306-313.	15.6	189

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19	Ultrabroadband terahertz radiation from low-temperature-grown GaAs photoconductive emitters. Applied Physics Letters, 2003, 83, 3117-3119.	1.5	180
20	Quantum Cascade Detectors. IEEE Journal of Quantum Electronics, 2009, 45, 1039-1052.	1.0	175
21	Temperature-dependent low-frequency vibrational spectra of purine and adenine. Applied Physics Letters, 2003, 82, 2350-2352.	1.5	170
22	Integrated Terahertz Graphene Modulator with 100% Modulation Depth. ACS Photonics, 2015, 2, 1559-1566.	3.2	158
23	Terahertz quantum cascade laser as local oscillator in a heterodyne receiver. Optics Express, 2005, 13, 5890.	1.7	156
24	Terahertz imaging through self-mixing in a quantum cascade laser. Optics Letters, 2011, 36, 2587.	1.7	149
25	Generation and detection of ultrabroadband terahertz radiation using photoconductive emitters and receivers. Applied Physics Letters, 2004, 85, 164-166.	1.5	144
26	Terahertz imaging using quantum cascade lasers—a review of systems and applications. Journal Physics D: Applied Physics, 2014, 47, 374008.	1.3	141
27	The development of terahertz sources and their applications. Physics in Medicine and Biology, 2002, 47, 3679-3689.	1.6	128
28	High resistivity annealed low-temperature GaAs with 100 fs lifetimes. Applied Physics Letters, 2003, 83, 4199-4201.	1.5	127
29	Linewidth and tuning characteristics of terahertz quantum cascade lasers. Optics Letters, 2004, 29, 575.	1.7	125
30	Surface emitting terahertz quantum cascade laser with a double-metal waveguide. Optics Express, 2006, 14, 11672.	1.7	121
31	Efficient power extraction in surface-emitting semiconductor lasers using graded photonic heterostructures. Nature Communications, 2012, 3, 952.	5.8	120
32	Three-dimensional imaging with a terahertz quantum cascade laser. Optics Express, 2006, 14, 2123.	1.7	117
33	Enhanced Shot Noise in Resonant Tunneling via Interacting Localized States. Physical Review Letters, 2003, 91, 136801.	2.9	106
34	Injection-locking of terahertz quantum cascade lasers up to 35GHz using RF amplitude modulation. Optics Express, 2010, 18, 20799.	1.7	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.	1.2	99

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37	Enhanced coherent terahertz emission from indium arsenide in the presence of a magnetic field. Applied Physics Letters, 2000, 76, 2038-2040.	1.5	98
38	Terahertz time-domain spectroscopy of glucose and uric Acid. Journal of Biological Physics, 2003, 29, 117-121.	0.7	97
39	Weak Localization, Hole-Hole Interactions, and the "Metal" Insulator Transition in Two Dimensions. Physical Review Letters, 2000, 84, 2489-2492.	2.9	96
40	Terahertz saturable absorbers from liquid phase exfoliation of graphite. Nature Communications, 2017, 8, 15763.	5.8	93
41	Correlation Effects on the Coupled Plasmon Modes of a Double Quantum Well. Physical Review Letters, 1997, 78, 2204-2207.	2.9	92
42	Swept-frequency feedback interferometry using terahertz frequency QCLs: a method for imaging and materials analysis. Optics Express, 2013, 21, 22194.	1.7	91
43	Diameter-independent skyrmion Hall angle observed in chiral magnetic multilayers. Nature Communications, 2020, 11, 428.	5.8	89
44	Discrete Hall resistivity contribution from Néel skyrmions in multilayer nanodiscs. Nature Nanotechnology, 2018, 13, 1161-1166.	15.6	81
45	High power quantum cascade lasers operating at $\lambda = 87$ and $130 \mu\text{m}$. Applied Physics Letters, 2004, 85, 3986-3988.	1.5	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.	2.9	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.	1.6	78
48	High-performance operation of single-mode terahertz quantum cascade lasers with metallic gratings. Applied Physics Letters, 2005, 87, 181101.	1.5	77
49	Tunneling between two-dimensional electron gases in a strong magnetic field. Physical Review B, 1994, 50, 15465-15468.	1.1	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.	0.7	70
51	Magneto-resistance 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.	2.9	70
52	Broadband terahertz time-domain spectroscopy of drugs-of-abuse and the use of principal component analysis. Analyst, The, 2009, 134, 1658.	1.7	70
53	Phase-resolved terahertz self-detection near-field microscopy. Optics Express, 2018, 26, 18423.	1.7	70
54	Mechanisms of dynamic range limitations in GaAs/AlGaAs quantum-cascade lasers: Influence of injector doping. Applied Physics Letters, 2005, 86, 211117.	1.5	69

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55	Fully phase-stabilized quantum cascade laser frequency comb. <i>Nature Communications</i> , 2019, 10, 2938.	5.8	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.	1.1	68
57	Transmittance of a tunable filter at terahertz frequencies. <i>Applied Physics Letters</i> , 2004, 85, 5173-5175.	1.5	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, .	1.5	68
59	Terahertz amplifier based on gain switching in a quantum cascade laser. <i>Nature Photonics</i> , 2009, 3, 715-719.	15.6	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.	1.7	68
61	Single-mode operation of terahertz quantum cascade lasers with distributed feedback resonators. <i>Applied Physics Letters</i> , 2004, 84, 5446-5448.	1.5	67
62	Apertureless near-field terahertz imaging using the self-mixing effect in a quantum cascade laser. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	67
63	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700013.	4.4	67
64	Theory of magnetic-field enhancement of surface-field terahertz emission. <i>Journal of Applied Physics</i> , 2002, 91, 2104-2106.	1.1	66
65	High-performance continuous-wave operation of superlattice terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2003, 82, 1518-1520.	1.5	66
66	Tunable hot-carrier photodetection beyond the bandgap spectral limit. <i>Nature Photonics</i> , 2014, 8, 412-418.	15.6	66
67	Tunneling between parallel two-dimensional electron gases. <i>Physical Review B</i> , 1996, 54, 10614-10624.	1.1	65
68	Drude conductivity of highly doped GaAs at terahertz frequencies. <i>Journal of Applied Physics</i> , 2000, 87, 2382-2385.	1.1	64
69	Demonstration of a self-mixing displacement sensor based on terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	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.	1.1	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.	1.7	62
72	Terahertz pulsed imaging with 1.06 μm laser excitation. <i>Applied Physics Letters</i> , 2003, 83, 4113-4115.	1.5	61

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73	Coherent terahertz photonics. <i>Optics Express</i> , 2013, 21, 22988.	1.7	61
74	Patch antenna terahertz photodetectors. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	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. <i>Semiconductor Science and Technology</i> , 1993, 8, 415-422.	1.0	60
76	Heterodyne mixing of two far-infrared quantum cascade lasers by use of a point-contact Schottky diode. <i>Optics Letters</i> , 2004, 29, 1632.	1.7	60
77	Limiting Factors to the Temperature Performance of THz Quantum Cascade Lasers Based on the Resonant-Phonon Depopulation Scheme. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2012, 2, 83-92.	2.0	59
78	Photonic quasi-crystal terahertz lasers. <i>Nature Communications</i> , 2014, 5, 5884.	5.8	59
79	A source of fresh hope. <i>Nature Photonics</i> , 2007, 1, 257-258.	15.6	58
80	Evolution of Fractal Patterns during a Classical-Quantum Transition. <i>Physical Review Letters</i> , 2001, 87, 036802.	2.9	57
81	Terahertz quantum-cascade lasers based on an interlaced photon-phonon cascade. <i>Applied Physics Letters</i> , 2004, 84, 1266-1268.	1.5	56
82	Absorption-sensitive diffuse reflection imaging of concealed powders using a terahertz quantum cascade laser. <i>Optics Express</i> , 2008, 16, 5997.	1.7	56
83	Terahertz frequency range band-stop filters. <i>Applied Physics Letters</i> , 2005, 86, 213503.	1.5	54
84	Generation of high-power terahertz pulses in a prism. <i>Optics Letters</i> , 2002, 27, 1935.	1.7	53
85	Excitation-density-dependent generation of broadband terahertz radiation in an asymmetrically excited photoconductive antenna. <i>Optics Letters</i> , 2007, 32, 2297.	1.7	52
86	Generating ultrafast pulses of light from quantum cascade lasers. <i>Optica</i> , 2015, 2, 944.	4.8	52
87	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
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. <i>Applied Physics Letters</i> , 1994, 64, 1827-1829.	1.5	51
89	Wave functions and Fermi surfaces of strongly coupled two-dimensional electron gases investigated by in-plane magnetoresistance. <i>Physical Review B</i> , 1994, 50, 4889-4892.	1.1	51
90	Terahertz vibrational absorption spectroscopy using microstrip-line waveguides. <i>Applied Physics Letters</i> , 2008, 93, 182904.	1.5	51

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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, .	1.5	51
92	Weak localization in high-quality two-dimensional systems. Physical Review B, 2004, 70, .	1.1	49
93	The growth and physics of high mobility two-dimensional hole gases. Journal of Crystal Growth, 1991, 111, 318-322.	0.7	46
94	Highly resistive annealed low-temperature-grown InGaAs with sub-500fs carrier lifetimes. Applied Physics Letters, 2004, 85, 4965-4967.	1.5	46
95	Characterization of Crystalline Phase-Transformations in Theophylline by Time-Domain Terahertz Spectroscopy. Spectroscopy Letters, 2006, 39, 215-224.	0.5	46
96	Wide-ridge metal-metal terahertz quantum cascade lasers with high-order lateral mode suppression. Applied Physics Letters, 2008, 92, .	1.5	46
97	Self-Mixing Interferometry With Terahertz Quantum Cascade Lasers. IEEE Sensors Journal, 2013, 13, 37-43.	2.4	46
98	Magnetization studies of Landau level broadening in two-dimensional electron systems. Journal of Physics Condensed Matter, 1996, 8, 5189-5207.	0.7	45
99	High-intensity interminiband terahertz emission from chirped superlattices. Applied Physics Letters, 2002, 80, 1867-1869.	1.5	45
100	All-optoelectronic terahertz system using low-temperature-grown InGaAs photomixers. Optics Express, 2005, 13, 9639.	1.7	45
101	Coherent three-dimensional terahertz imaging through self-mixing in a quantum cascade laser. Applied Physics Letters, 2013, 103, .	1.5	45
102	Graded photonic crystal terahertz quantum cascade lasers. Applied Physics Letters, 2010, 96, .	1.5	44
103	Realization of quantum-dot cellular automata using semiconductor quantum dots. Superlattices and Microstructures, 2003, 34, 195-203.	1.4	43
104	Terahertz quantum cascade lasers—first demonstration and novel concepts. Semiconductor Science and Technology, 2005, 20, S222-S227.	1.0	42
105	Dual-frequency imaging using an electrically tunable terahertz quantum cascade laser. Optics Express, 2009, 17, 20631.	1.7	42
106	High-contrast coherent terahertz imaging of porcine tissue via swept-frequency feedback interferometry. Biomedical Optics Express, 2014, 5, 3981.	1.5	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.	3.2	41
108	Frictional drag between parallel two-dimensional electron gases in a perpendicular magnetic field. Journal of Physics Condensed Matter, 1996, 8, L557-L562.	0.7	40

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109	Quantum cascade laser based hybrid dual comb spectrometer. Communications Physics, 2020, 3, .	2.0	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, .	1.5	39
111	Determination of Glucose Concentration in Whole Blood using Fourier-Transform Infrared Spectroscopy. Journal of Biological Physics, 2003, 29, 129-133.	0.7	38
112	The MBE growth and optimization of high performance terahertz frequency quantum cascade lasers. Optics Express, 2015, 23, 2720.	1.7	38
113	Generalized Fano lineshapes reveal exceptional points in photonic molecules. Nature Communications, 2018, 9, 396.	5.8	37
114	Ultrastrong Light-Matter Coupling in Deeply Subwavelength THz LC Resonators. ACS Photonics, 2019, 6, 1207-1215.	3.2	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.	1.0	36
116	Terahertz inverse synthetic aperture radar imaging using self-mixing interferometry with a quantum cascade laser. Optics Letters, 2014, 39, 2629.	1.7	36
117	Resonant dipole antennas for continuous-wave terahertz photomixers. Applied Physics Letters, 2004, 85, 1622-1624.	1.5	35
118	Three-dimensional terahertz imaging using swept-frequency feedback interferometry with a quantum cascade laser. Optics Letters, 2015, 40, 994.	1.7	35
119	10 Gbit s ⁻¹ Free Space Data Transmission at 9.4 μm Wavelength With Unipolar Quantum Optoelectronics. Laser and Photonics Reviews, 2022, 16, .	4.4	35
120	MBE growth of terahertz quantum cascade lasers. Journal of Crystal Growth, 2005, 278, 756-764.	0.7	33
121	Electrically tunable terahertz quantum-cascade laser with a heterogeneous active region. Applied Physics Letters, 2009, 95, 181101.	1.5	33
122	Terahertz-frequency photoconductive detectors fabricated from metal-organic chemical vapor deposition-grown Fe-doped InGaAs. Applied Physics Letters, 2011, 98, .	1.5	33
123	On-Chip Picosecond Pulse Detection and Generation Using Graphene Photoconductive Switches. Nano Letters, 2015, 15, 1591-1596.	4.5	33
124	Frequency-tunable continuous-wave random lasers at terahertz frequencies. Light: Science and Applications, 2019, 8, 43.	7.7	33
125	Long-wavelength infrared photovoltaic heterodyne receivers using patch-antenna quantum cascade detectors. Applied Physics Letters, 2020, 116, .	1.5	33
126	Back-gated split-gate transistor: A one-dimensional ballistic channel with variable Fermi energy. Applied Physics Letters, 1992, 60, 2782-2784.	1.5	32

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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.	1.1	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, .	1.1	32
129	Terahertz generation from coherent optical phonons in a biased GaAs photoconductive emitter. <i>Physical Review B</i> , 2004, 69, .	1.1	32
130	Comparison of near infrared laser excitation wavelengths and its influence on the interrogation of seized drugs of abuse by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1974-1983.	1.2	32
131	Efficient prediction of terahertz quantum cascade laser dynamics from steady-state simulations. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	32
132	Tunable and compact dispersion compensation of broadband THz quantum cascade laser frequency combs. <i>Optics Express</i> , 2019, 27, 20231.	1.7	32
133	Continuous-wave operation of terahertz quantum-cascade lasers. <i>IEEE Journal of Quantum Electronics</i> , 2003, 39, 586-591.	1.0	31
134	Terahertz pulsed spectroscopic imaging using optimized binary masks. <i>Applied Physics Letters</i> , 2009, 95, 231112.	1.5	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.	1.5	31
136	Millimeter wave photonics with terahertz semiconductor lasers. <i>Nature Communications</i> , 2021, 12, 1427.	5.8	31
137	Coherent imaging using laser feedback interferometry with pulsed-mode terahertz quantum cascade lasers. <i>Optics Express</i> , 2019, 27, 10221.	1.7	31
138	Metallic Behavior in Dilute Two-Dimensional Hole Systems. <i>Physical Review Letters</i> , 2001, 87, 126802.	2.9	30
139	Predictable surface emission patterns in terahertz photonic-crystal quantum cascade lasers. <i>Optics Express</i> , 2009, 17, 9491.	1.7	30
140	Calculation and Measurement of Terahertz Active Normal Modes in Crystalline PETN. <i>ChemPhysChem</i> , 2010, 11, 368-378.	1.0	30
141	Superlattice electronic devices as high-performance oscillators between 60–220 GHz. <i>Applied Physics Letters</i> , 2010, 96, 072101.	1.5	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, .	1.0	30
143	Coupled-cavity terahertz quantum cascade lasers for single mode operation. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	30
144	5-ps-long terahertz pulses from an active-mode-locked quantum cascade laser. <i>Optica</i> , 2017, 4, 168.	4.8	30

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145	Continuous-wave highly-efficient low-divergence terahertz wire lasers. Nature Communications, 2018, 9, 1122.	5.8	30
146	Distribution-function analysis of mesoscopic hopping conductance fluctuations. Physical Review B, 1996, 54, 2091-2100.	1.1	29
147	Single-mode surface-emitting concentric-circular-grating terahertz quantum cascade lasers. Applied Physics Letters, 2013, 102, 031119.	1.5	29
148	Ultra-subwavelength phase-sensitive Fano-imaging of localized photonic modes. Light: Science and Applications, 2015, 4, e326-e326.	7.7	29
149	Spontaneous emission control of single quantum dots by electromechanical tuning of a photonic crystal cavity. Applied Physics Letters, 2012, 101, 091106.	1.5	28
150	Gain recovery time in a terahertz quantum cascade laser. Applied Physics Letters, 2016, 108, .	1.5	28
151	Injection locking of a terahertz quantum cascade laser to a telecommunications wavelength frequency comb. Optica, 2017, 4, 1059.	4.8	28
152	Buried waveguides in terahertz quantum cascade lasers based on two-dimensional surface plasmon modes. Applied Physics Letters, 2005, 86, 071109.	1.5	27
153	Discrete Vernier tuning in terahertz quantum cascade lasers using coupled cavities. Optics Express, 2014, 22, 16595.	1.7	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.	2.1	27
155	Direct observation of single-electron decay from an artificial nucleus. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 457-460.	1.3	26
156	Efficient coupling of single photons to ridge-waveguide photonic integrated circuits. Applied Physics Letters, 2013, 102, .	1.5	26
157	Terahertz Frequency Combs Exploiting an On-Chip, Solution-Processed, Graphene-Quantum Cascade Laser Coupled-Cavity. ACS Photonics, 2020, 7, 3489-3498.	3.2	26
158	High-speed modulation of a terahertz quantum cascade laser by coherent acoustic phonon pulses. Nature Communications, 2020, 11, 835.	5.8	26
159	Coulomb Blockade as a Noninvasive Probe of Local Density of States. Physical Review Letters, 1996, 77, 350-353.	2.9	25
160	Low-threshold quantum-cascade lasers at 35 THz ($\lambda = 85 \text{ \AA}\mu\text{m}$). Optics Letters, 2003, 28, 810.	1.7	25
161	Mode-locking of a terahertz laser by direct phase synchronization. Optics Express, 2012, 20, 20855.	1.7	25
162	Spectroscopy of polycrystalline materials using thinned-substrate planar Goubau line at cryogenic temperatures. Lab on A Chip, 2013, 13, 4065.	3.1	25

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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.	3.3	25
164	Surface-emitting terahertz quantum cascade lasers with continuous-wave power in the tens of milliwatt range. Applied Physics Letters, 2014, 104, 091112.	1.5	25
165	Spin relaxation through Kondo scattering in Cu/Py lateral spin valves. Physical Review B, 2015, 92, .	1.1	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.	1.3	25
167	Superferromagnetism and Domain-Wall Topologies in Artificial "Pinwheel" Spin Ice. ACS Nano, 2019, 13, 2213-2222.	7.3	25
168	Multiple-frequency terahertz pulsed sensing of dielectric films. Applied Physics Letters, 2006, 88, 071112.	1.5	24
169	Terahertz time domain spectroscopy of phonon-depopulation based quantum cascade lasers. Applied Physics Letters, 2009, 94, 251108.	1.5	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.	1.5	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.	1.7	23
173	Continuous-wave coherent imaging with terahertz quantum cascade lasers using electro-optic harmonic sampling. Applied Physics Letters, 2013, 102, .	1.5	23
174	Surface acoustic wave generation and detection using graphene interdigitated transducers on lithium niobate. Applied Physics Letters, 2014, 104, .	1.5	23
175	Tuning a microcavity-coupled terahertz laser. Applied Physics Letters, 2015, 107, 261108.	1.5	23
176	Fully tuneable, Purcell-enhanced solid-state quantum emitters. Applied Physics Letters, 2015, 107, .	1.5	23
177	Design of Broadband Non-Foster Circuits Based on Resonant Tunneling Diodes. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1398-1401.	2.4	23
178	Monolithic Semiconductor Lasers with Dynamically Tunable Linear-to-Circular Polarization. ACS Photonics, 2017, 4, 517-524.	3.2	23
179	Toward Chirality-Encoded Domain Wall Logic. Advanced Functional Materials, 2019, 29, 1807282.	7.8	23
180	High temperature metamaterial terahertz quantum detector. Applied Physics Letters, 2020, 117, .	1.5	23

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