

Harvey Beere

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/301423/publications.pdf>

Version: 2024-02-01

197
papers

10,704
citations

34016

52
h-index

34900

98
g-index

197
all docs

197
docs citations

197
times ranked

6602
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz semiconductor-heterostructure laser. <i>Nature</i> , 2002, 417, 156-159.	13.7	2,539
2	Electrically pumped photonic-crystal terahertz lasers controlled by boundary conditions. <i>Nature</i> , 2009, 457, 174-178.	13.7	334
3	All-electric all-semiconductor spin field-effect transistors. <i>Nature Nanotechnology</i> , 2015, 10, 35-39.	15.6	289
4	2.9THz quantum cascade lasers operating up to 70K in continuous wave. <i>Applied Physics Letters</i> , 2004, 85, 1674-1676.	1.5	228
5	Far-infrared ($\lambda \approx 87 \mu\text{m}$) bound-to-continuum quantum-cascade lasers operating up to 90 K. <i>Applied Physics Letters</i> , 2003, 82, 3165-3167.	1.5	219
6	High Open-Circuit Voltages in Tin-Rich Low-Bandgap Perovskite-Based Planar Heterojunction Photovoltaics. <i>Advanced Materials</i> , 2017, 29, 1604744.	11.1	212
7	Low-threshold terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2002, 81, 1381-1383.	1.5	203
8	Terahertz range quantum well infrared photodetector. <i>Applied Physics Letters</i> , 2004, 84, 475-477.	1.5	195
9	Ultrabroadband terahertz radiation from low-temperature-grown GaAs photoconductive emitters. <i>Applied Physics Letters</i> , 2003, 83, 3117-3119.	1.5	180
10	Quantum Cascade Detectors. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 1039-1052.	1.0	175
11	Phase-locking of a 2.7-THz quantum cascade laser to a mode-locked erbium-doped fibre laser. <i>Nature Photonics</i> , 2010, 4, 636-640.	15.6	166
12	Terahertz quantum cascade laser as local oscillator in a heterodyne receiver. <i>Optics Express</i> , 2005, 13, 5890.	1.7	156
13	Generation and detection of ultrabroadband terahertz radiation using photoconductive emitters and receivers. <i>Applied Physics Letters</i> , 2004, 85, 164-166.	1.5	144
14	435 kW peak power femtosecond pulse mode-locked VECSEL for supercontinuum generation. <i>Optics Express</i> , 2013, 21, 1599.	1.7	139
15	Low-Bias Terahertz Amplitude Modulator Based on Split-Ring Resonators and Graphene. <i>ACS Nano</i> , 2014, 8, 2548-2554.	7.3	131
16	A general approach for hysteresis-free, operationally stable metal halide perovskite field-effect transistors. <i>Science Advances</i> , 2020, 6, eaaz4948.	4.7	129
17	High resistivity annealed low-temperature GaAs with 100 fs lifetimes. <i>Applied Physics Letters</i> , 2003, 83, 4199-4201.	1.5	127
18	Linewidth and tuning characteristics of terahertz quantum cascade lasers. <i>Optics Letters</i> , 2004, 29, 575.	1.7	125

#	ARTICLE	IF	CITATIONS
19	Vertically emitting microdisk lasers. Nature Photonics, 2009, 3, 46-49.	15.6	119
20	Three-dimensional imaging with a terahertz quantum cascade laser. Optics Express, 2006, 14, 2123.	1.7	117
21	Low frequency terahertz quantum cascade laser operating from 1.6to1.8THz. Applied Physics Letters, 2006, 89, 231121.	1.5	112
22	Imaging Fractal Conductance Fluctuations and Scarred Wave Functions in a Quantum Billiard. Physical Review Letters, 2003, 91, 246803.	2.9	111
23	Anomalous Coulomb Drag in Electron-Hole Bilayers. Physical Review Letters, 2008, 101, 246801.	2.9	104
24	Injection-locking of terahertz quantum cascade lasers up to 35GHz using RF amplitude modulation. Optics Express, 2010, 18, 20799.	1.7	103
25	Intrinsic stability of quantum cascade lasers against optical feedback. Optics Express, 2013, 21, 13748.	1.7	103
26	Quasi-periodic distributed feedback laser. Nature Photonics, 2010, 4, 165-169.	15.6	99
27	13 GHz direct modulation of terahertz quantum cascade lasers. Applied Physics Letters, 2007, 91, .	1.5	88
28	Continuous wave operation of a superlattice quantum cascade laser emitting at 2 THz. Optics Express, 2006, 14, 171.	1.7	86
29	Active Control of Electromagnetically Induced Transparency in a Terahertz Metamaterial Array with Graphene for Continuous Resonance Frequency Tuning. Advanced Optical Materials, 2018, 6, 1800570.	3.6	85
30	Graphene based plasmonic terahertz amplitude modulator operating above 100â€™MHz. Applied Physics Letters, 2016, 108, .	1.5	83
31	High power quantum cascade lasers operating at $\lambda = 87$ and $130\frac{1}{4}\mu\text{m}$. Applied Physics Letters, 2004, 85, 3986-3988.	1.5	80
32	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
33	High-performance operation of single-mode terahertz quantum cascade lasers with metallic gratings. Applied Physics Letters, 2005, 87, 181101.	1.5	77
34	A quartz enhanced photo-acoustic gas sensor based on a custom tuning fork and a terahertz quantum cascade laser. Analyst, The, 2014, 139, 2079-2087.	1.7	77
35	Tunable terahertz quantum cascade lasers with an external cavity. Applied Physics Letters, 2007, 91, 121104.	1.5	74
36	Electrically switchable, two-color quantum cascade laser emitting at 1.39 and 2.3THz. Applied Physics Letters, 2006, 88, 141102.	1.5	72

#	ARTICLE	IF	CITATIONS
37	Terahertz heterodyne receiver with quantum cascade laser and hot electron bolometer mixer in a pulse tube cooler. <i>Applied Physics Letters</i> , 2008, 93, 141108.	1.5	71
38	Mechanisms of dynamic range limitations in GaAs ⁺ AlGaAs quantum-cascade lasers: Influence of injector doping. <i>Applied Physics Letters</i> , 2005, 86, 211117.	1.5	69
39	Imaging with THz quantum cascade lasers using a Schottky diode mixer. <i>Optics Express</i> , 2005, 13, 6497.	1.7	69
40	Single-mode operation of terahertz quantum cascade lasers with distributed feedback resonators. <i>Applied Physics Letters</i> , 2004, 84, 5446-5448.	1.5	67
41	High-performance continuous-wave operation of superlattice terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2003, 82, 1518-1520.	1.5	66
42	Surface plasmon photonic structures in terahertz quantum cascade lasers. <i>Optics Express</i> , 2006, 14, 5335.	1.7	64
43	Metal-metal terahertz quantum cascade laser with micro-transverse-electromagnetic-horn antenna. <i>Applied Physics Letters</i> , 2008, 93, 183508.	1.5	62
44	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
45	Improved Tuning Fork for Terahertz Quartz-Enhanced Photoacoustic Spectroscopy. <i>Sensors</i> , 2016, 16, 439.	2.1	59
46	Erasable electrostatic lithography for quantum components. <i>Nature</i> , 2003, 424, 751-754.	18.7	57
47	Terahertz quantum-cascade lasers based on an interlaced photon-phonon cascade. <i>Applied Physics Letters</i> , 2004, 84, 1266-1268.	1.5	56
48	Terahertz frequency range band-stop filters. <i>Applied Physics Letters</i> , 2005, 86, 213503.	1.5	54
49	Quantized charge pumping through a quantum dot by surface acoustic waves. <i>Applied Physics Letters</i> , 2004, 84, 4319-4321.	1.5	53
50	Possible Evidence of a Spontaneous Spin Polarization in Mesoscopic Two-Dimensional Electron Systems. <i>Physical Review Letters</i> , 2004, 92, 116601.	2.9	52
51	Excitation-density-dependent generation of broadband terahertz radiation in an asymmetrically excited photoconductive antenna. <i>Optics Letters</i> , 2007, 32, 2297.	1.7	52
52	Terahertz transfer onto a telecom optical carrier. <i>Nature Photonics</i> , 2007, 1, 411-415.	15.6	52
53	Terahertz confocal microscopy with a quantum cascade laser source. <i>Optics Express</i> , 2012, 20, 21924.	1.7	52
54	High Peak Power Femtosecond Pulse Passively Mode-Locked Vertical-External-Cavity Surface-Emitting Laser. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1021-1023.	1.3	49

#	ARTICLE	IF	CITATIONS
55	THz QCL-Based Cryogen-Free Spectrometer for in Situ Trace Gas Sensing. <i>Sensors</i> , 2013, 13, 3331-3340.	2.1	49
56	Single-Photon Superradiance from a Quantum Dot. <i>Physical Review Letters</i> , 2016, 116, 163604.	2.9	48
57	Tuneable polaritonics at room temperature with strongly coupled Tamm plasmon polaritons in metal/air-gap microcavities. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	47
58	Thermal properties of THz quantum cascade lasers based on different optical waveguide configurations. <i>Applied Physics Letters</i> , 2006, 89, 021111.	1.5	46
59	A Terahertz Chiral Metamaterial Modulator. <i>Advanced Optical Materials</i> , 2020, 8, 2000581.	3.6	46
60	High-intensity interminiband terahertz emission from chirped superlattices. <i>Applied Physics Letters</i> , 2002, 80, 1867-1869.	1.5	45
61	Graphene-Integrated Metamaterial Device for All-Electrical Polarization Control of Terahertz Quantum Cascade Lasers. <i>ACS Photonics</i> , 2019, 6, 1547-1555.	3.2	45
62	Cryogenic on-chip multiplexer for the study of quantum transport in 256 split-gate devices. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	44
63	Terahertz Nanoscopy of Plasmonic Resonances with a Quantum Cascade Laser. <i>ACS Photonics</i> , 2017, 4, 2150-2157.	3.2	44
64	Terahertz quantum cascade lasers—first demonstration and novel concepts. <i>Semiconductor Science and Technology</i> , 2005, 20, S222-S227.	1.0	42
65	High-power surface emission from terahertz distributed feedback lasers with a dual-slit unit cell. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	42
66	Fast Room-Temperature Detection of Terahertz Quantum Cascade Lasers with Graphene-Loaded Bow-Tie Plasmonic Antenna Arrays. <i>ACS Photonics</i> , 2016, 3, 1747-1753.	3.2	42
67	Electron-lattice coupling in bound-to-continuum THz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2006, 88, 241109.	1.5	38
68	Fast Modulation of Terahertz Quantum Cascade Lasers Using Graphene Loaded Plasmonic Antennas. <i>ACS Photonics</i> , 2016, 3, 464-470.	3.2	37
69	Investigation of the role of the lateral photo-Dember effect in the generation of terahertz radiation using a metallic mask on a semiconductor. <i>Optics Express</i> , 2013, 21, 16263.	1.7	35
70	Imprinted diffractive optics for terahertz radiation. <i>Optics Letters</i> , 2007, 32, 1141.	1.7	34
71	Surface plasmon quantum cascade lasers as terahertz local oscillators. <i>Optics Letters</i> , 2008, 33, 312.	1.7	34
72	All-semiconductor room-temperature terahertz time domain spectrometer. <i>Optics Letters</i> , 2008, 33, 2125.	1.7	34

#	ARTICLE	IF	CITATIONS
73	175 GHz, 400-fs-pulse harmonically mode-locked surface emitting semiconductor laser. Optics Express, 2012, 20, 7040.	1.7	33
74	Frequency-tunable continuous-wave random lasers at terahertz frequencies. Light: Science and Applications, 2019, 8, 43.	7.7	33
75	Subband electronic temperatures and electron-lattice energy relaxation in terahertz quantum cascade lasers with different conduction band offsets. Applied Physics Letters, 2006, 89, 131114.	1.5	32
76	Distributed feedback ring resonators for vertically emitting terahertz quantum cascade lasers. Optics Express, 2009, 17, 13031.	1.7	31
77	Tuning a distributed feedback laser with a coupled microcavity. Optics Express, 2010, 18, 19185.	1.7	30
78	Continuous-wave highly-efficient low-divergence terahertz wire lasers. Nature Communications, 2018, 9, 1122.	5.8	30
79	Electrically switchable emission in terahertz quantum cascade lasers. Optics Express, 2008, 16, 19830.	1.7	27
80	Resistively Detected Nuclear Magnetic Resonance in n- and p-Type GaAs Quantum Point Contacts. Nano Letters, 2011, 11, 3147-3150.	4.5	27
81	Direct intensity sampling of a modelocked terahertz quantum cascade laser. Applied Physics Letters, 2012, 101, .	1.5	27
82	Electric field sampling of modelocked pulses from a quantum cascade laser. Optics Express, 2013, 21, 16162.	1.7	26
83	Low-threshold quantum-cascade lasers at 35 THz ($\lambda = 85 \text{ \AA}\mu\text{m}$). Optics Letters, 2003, 28, 810.	1.7	25
84	High efficiency coupling of Terahertz micro-ring quantum cascade lasers to the low-loss optical modes of hollow metallic waveguides. Optics Express, 2011, 19, 1122.	1.7	25
85	Repetition-frequency-tunable mode-locked surface emitting semiconductor laser between 278 and 787 GHz. Optics Express, 2011, 19, 23453.	1.7	25
86	Mode-locking of a terahertz laser by direct phase synchronization. Optics Express, 2012, 20, 20855.	1.7	25
87	Probing the Topological Surface State in Bi_2Se_3 Thin Films Using Temperature-Dependent Terahertz Spectroscopy. ACS Photonics, 2017, 4, 2711-2718.	3.2	24
88	High-performance planar light-emitting diodes. Applied Physics Letters, 2003, 82, 636-638.	1.5	23
89	Quantum transport in $\text{In}_{0.75}\text{Ga}_{0.25}\text{As}$ quantum wires. Applied Physics Letters, 2008, 92, 152108.	1.5	23
90	Passively harmonically mode-locked vertical-external-cavity surface-emitting laser emitting 1.1 ps pulses at 147 GHz repetition rate. Applied Physics Letters, 2010, 97, .	1.5	23

#	ARTICLE	IF	CITATIONS
91	Distinguishing impurity concentrations in GaAs and AlGaAs using very shallow undoped heterostructures. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	23
92	Continuous-Wave Reflection Imaging Using Optical Feedback Interferometry in Terahertz and Mid-Infrared Quantum Cascade Lasers. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2014, 4, 631-633.	2.0	23
93	THz saturable absorption in turbostratic multilayer graphene on silicon carbide. <i>Optics Express</i> , 2015, 23, 11632.	1.7	23
94	All-optical wavelength shifting in a semiconductor laser using resonant nonlinearities. <i>Nature Photonics</i> , 2012, 6, 519-524.	15.6	22
95	Growth variations and scattering mechanisms in metamorphic In _{0.75} Ga _{0.25} As/In _{0.75} Al _{0.25} As quantum wells grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2015, 425, 70-75.	0.7	22
96	Bolometric detection of terahertz quantum cascade laser radiation with graphene-plasmonic antenna arrays. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 174001.	1.3	22
97	Fabrication of closely spaced, independently contacted electron-hole bilayers in GaAs-AlGaAs heterostructures. <i>Applied Physics Letters</i> , 2005, 87, 202104.	1.5	20
98	Terahertz emission by diffusion of carriers and metal-mask dipole inhibition of radiation. <i>Optics Express</i> , 2012, 20, 8898.	1.7	20
99	Graphene-loaded metal wire grating for deep and broadband THz modulation in total internal reflection geometry. <i>Photonics Research</i> , 2018, 6, 1151.	3.4	20
100	Spectral behavior of a terahertz quantum-cascade laser. <i>Optics Express</i> , 2009, 17, 20476.	1.7	19
101	Variable repetition frequency femtosecond-pulse surface emitting semiconductor laser. <i>Applied Physics Letters</i> , 2011, 99, 131107.	1.5	19
102	Discrete mode tuning in terahertz quantum cascade lasers. <i>Optics Express</i> , 2012, 20, B306.	1.7	19
103	Single mode terahertz quantum cascade amplifier. <i>Applied Physics Letters</i> , 2014, 105, 141102.	1.5	19
104	Investigation of hollow cylindrical metal terahertz waveguides suitable for cryogenic environments. <i>Optics Express</i> , 2016, 24, 30002.	1.7	19
105	Population inversion by resonant magnetic confinement in terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2003, 83, 3453-3455.	1.5	18
106	Application of terahertz quantum-cascade lasers to semiconductor cyclotron resonance. <i>Optics Letters</i> , 2004, 29, 122.	1.7	18
107	Surface acoustic wave-induced electroluminescence intensity oscillation in planar light-emitting devices. <i>Applied Physics Letters</i> , 2005, 86, 241107.	1.5	17
108	Analysis of photomixer receivers for continuous-wave terahertz radiation. <i>Applied Physics Letters</i> , 2007, 91, 154103.	1.5	17

#	ARTICLE	IF	CITATIONS
109	Resonant tuning fork detector for THz radiation. <i>Optics Express</i> , 2009, 17, 14069.	1.7	17
110	Low temperature transport in undoped mesoscopic structures. <i>Applied Physics Letters</i> , 2009, 94, 172105.	1.5	17
111	Ultra-shallow quantum dots in an undoped GaAs/AlGaAs two-dimensional electron gas. <i>Applied Physics Letters</i> , 2013, 102, 103507.	1.5	17
112	Molecular Spectroscopy with TeraHertz Quantum Cascade Lasers. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2007, 2, 101-107.	0.1	17
113	Surface acoustic wave-driven planar light-emitting device. <i>Applied Physics Letters</i> , 2004, 85, 3020-3022.	1.5	16
114	Surface-emitting photonic crystal terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	16
115	Wide dynamic range terahertz detector pixel for active spectroscopic imaging with quantum cascade lasers. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	16
116	Gain enhancement in a terahertz quantum cascade laser with parylene antireflection coatings. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	16
117	Longitudinal computer-generated holograms for digital frequency control in electronically tunable terahertz lasers. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	16
118	Demonstration and characterization of an ambipolar high mobility transistor in an undoped GaAs/AlGaAs quantum well. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	16
119	Hollow metallic waveguides integrated with terahertz quantum cascade lasers. <i>Optics Express</i> , 2014, 22, 24439.	1.7	16
120	An in-plane photoelectric effect in two-dimensional electron systems for terahertz detection. <i>Science Advances</i> , 2022, 8, eabi8398.	4.7	16
121	A THz quantum cascade detector in a strong perpendicular magnetic field. <i>Semiconductor Science and Technology</i> , 2006, 21, 1743-1746.	1.0	15
122	Broad gain in a bound-to-continuum quantum cascade laser with heterogeneous active region. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	15
123	Differential Near-Field Scanning Optical Microscopy with THz quantum cascade laser sources. <i>Optics Express</i> , 2009, 17, 23785.	1.7	14
124	Fluence and polarisation dependence of GaAs based Lateral Photo-Dember terahertz emitters. <i>Optics Express</i> , 2014, 22, 3234.	1.7	14
125	Band gaps of wurtzite Sc _x Ga _{1-x} N alloys. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	14
126	Phase-locked arrays of surface-emitting graded-photonic-heterostructure terahertz semiconductor lasers. <i>Optics Express</i> , 2015, 23, 6915.	1.7	14

#	ARTICLE	IF	CITATIONS
127	Self-mixing interferometry and near-field nanoscopy in quantum cascade random lasers at terahertz frequencies. <i>Nanophotonics</i> , 2021, 10, 1495-1503.	2.9	14
128	Electron Assisted Variable Range Hopping in Strongly Correlated 2D Electron Systems. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 230, 211-216.	0.7	13
129	Examination of surface acoustic wave reflections by observing acoustoelectric current generation under pulse modulation. <i>Applied Physics Letters</i> , 2006, 89, 132102.	1.5	13
130	Growth-temperature optimization for low-carrier-density In _{0.75} Ga _{0.25} As-based high electron mobility transistors on InP. <i>Journal of Applied Physics</i> , 2007, 102, 083518.	1.1	12
131	Bychkov's Rashba dominated band structure in an In _{0.75} Ga _{0.25} As/In _{0.75} Al _{0.25} As device with spin-split carrier densities of $< 10^{11} \text{cm}^{-2}$. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 472207.	0.7	12
132	Finite size effects in surface emitting Terahertz quantum cascade lasers. <i>Optics Express</i> , 2009, 17, 6703.	1.7	12
133	Quasibound states in semiconductor quantum well structures. <i>Superlattices and Microstructures</i> , 2010, 47, 288-299.	1.4	12
134	Intrinsic terahertz plasmon signatures in chemical vapour deposited graphene. <i>Applied Physics Letters</i> , 2013, 103, 121110.	1.5	12
135	Continuous-wave laser operation of a dipole antenna terahertz microresonator. <i>Light: Science and Applications</i> , 2017, 6, e17054-e17054.	7.7	12
136	Systematic Study of Ferromagnetism in Cr _x Sb _{2-x} Te ₃ Topological Insulator Thin Films using Electrical and Optical Techniques. <i>Scientific Reports</i> , 2018, 8, 17024.	1.6	12
137	Amplitude stabilization and active control of a terahertz quantum cascade laser with a graphene loaded split-ring-resonator array. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	12
138	Intensity detection of terahertz quantum cascade laser radiation using electro-optic sampling. <i>Applied Physics Letters</i> , 2008, 93, 191111.	1.5	11
139	Stable single-mode operation of surface-emitting terahertz lasers with graded photonic heterostructure resonators. <i>Applied Physics Letters</i> , 2013, 102, 231105.	1.5	11
140	Characteristics of a micromachined floating-gate high-electron-mobility transistor at 4.2K. <i>Journal of Applied Physics</i> , 2005, 97, 114507.	1.1	10
141	Frequency Manipulation of THz Bound-to-Continuum Quantum-Cascade Lasers. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 303-305.	1.3	10
142	Double spin resonance in a spatially periodic magnetic field with zero average. <i>Europhysics Letters</i> , 2011, 94, 28001.	0.7	10
143	Frequency Characterization of a Terahertz Quantum-Cascade Laser. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007, 56, 262-265.	2.4	9
144	Spin-orbit coupling in an In _{0.52} Ga _{0.48} As quantum well with two populated subbands. <i>Journal of Applied Physics</i> , 2008, 103, 124506.	1.1	9

#	ARTICLE	IF	CITATIONS
145	Terahertz near-field imaging using subwavelength plasmonic apertures and a quantum cascade laser source. <i>Optics Letters</i> , 2011, 36, 2393.	1.7	9
146	Multiple lateral photo-Dember terahertz emitters illuminated by a cylindrical micro-lens array. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	9
147	THz waveguide adapters for efficient radiation out-coupling from double metal THz QCLs. <i>Optics Express</i> , 2015, 23, 5190.	1.7	9
148	Demonstration of a fully integrated superconducting receiver with a 27 THz quantum cascade laser. <i>Optics Express</i> , 2015, 23, 4453.	1.7	9
149	Efficient coupling of double-metal terahertz quantum cascade lasers to flexible dielectric-lined hollow metallic waveguides. <i>Optics Express</i> , 2015, 23, 26276.	1.7	9
150	Density-dependent instabilities in correlated two dimensional electron systems. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 3623-3631.	0.7	8
151	Electronically tunable aperiodic distributed feedback terahertz lasers. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	8
152	Terahertz probe of individual subwavelength objects in a water environment. <i>Laser and Photonics Reviews</i> , 2014, 8, 734-742.	4.4	8
153	Using Transmissive Photonic Band Edge Shift to Detect Explosives: A Study with 2,4,6-Trinitrotoluene (TNT). <i>ACS Photonics</i> , 2017, 4, 384-395.	3.2	8
154	Distributed Feedback THz Quantum-Cascade Lasers Using Thin Double-Metallic Gratings. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 857-859.	1.3	7
155	Improved wall plug efficiency of a 1.9THz quantum cascade laser by an automated design approach. <i>Applied Physics Letters</i> , 2008, 93, 191119.	1.5	7
156	Indirect Modulation of a Terahertz Quantum Cascade Laser Using Gate Tunable Graphene. <i>IEEE Photonics Journal</i> , 2012, 4, 1776-1782.	1.0	7
157	Terahertz interminiband emission and magneto-transport measurements from a quantum cascade chirped superlattice. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 854-857.	1.3	6
158	Gating schemes for controlling the electron wavefunction between GaAs and In _{0.05} Ga _{0.95} As quasi-one-dimensional channels. <i>Journal of Physics Condensed Matter</i> , 2006, 18, L123-L128.	0.7	6
159	Broadband photonic control for dual-mode terahertz laser emission. <i>Applied Physics Letters</i> , 2013, 102, 181106.	1.5	6
160	Reversible mode switching in Y-coupled terahertz lasers. <i>Applied Physics Letters</i> , 2013, 102, 111105.	1.5	6
161	Valence band offsets of Sc _x Ga _{1-x} N/AlN and Sc _x Ga _{1-x} N/GaN heterojunctions. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 265110.	1.3	6
162	Acoustic charge transport in a n-i-n three terminal device. <i>Applied Physics Letters</i> , 2006, 88, 212101.	1.5	5

#	ARTICLE	IF	CITATIONS
163	High-Throughput Electrical Characterization of Nanomaterials from Room to Cryogenic Temperatures. ACS Nano, 2020, 14, 15293-15305.	7.3	5
164	Linear non-hysteretic gating of a very high density 2DEG in an undoped metal-semiconductor-metal sandwich structure. Semiconductor Science and Technology, 2012, 27, 115006.	1.0	4
165	All dielectric metasurfaces for spin-dependent terahertz wavefront control. Photonics Research, 2022, 10, 1695.	3.4	4
166	Kelvin probe microscopy to image and characterise erasable electrostatic lithography. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 686-688.	1.3	3
167	Design and simulation of a THz QCL based on depopulation mechanism. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1240-1242.	1.3	3
168	Lasing in planar semiconductor diodes. Applied Physics Letters, 2011, 99, 261110.	1.5	3
169	Superconductivity in AuNiGe Ohmic contacts to a GaAs-based high mobility two-dimensional electron gas. Applied Physics Letters, 2020, 117, 162104.	1.5	3
170	Spatial coherence of electrically pumped random terahertz lasers. Photonics Research, 2022, 10, 524.	3.4	3
171	Quantisation of hopping magnetoresistance prefactor in strongly correlated two-dimensional electron systems. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1347-1350.	1.3	2
172	Terahertz Quantum Cascade Devices: From Intersubband Transition to Microcavity Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 307-314.	1.9	2
173	Laser Local Oscillators for Heterodyne Receivers beyond 2 Terahertz. Frequenz, 2008, 62, 111-117.	0.6	2
174	Anti-bunched photons from a lateral light-emitting diode. Applied Physics Letters, 2011, 99, 131103.	1.5	2
175	Monolithically integrated two-dimensional arrays of surface-emitting photonic-crystal terahertz lasers. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 386-392.	1.2	2
176	Photovoltage Spectroscopy of Dipolar Spin Waves in Dy Micromagnets. Solid State Phenomena, 0, 215, 400-406.	0.3	2
177	Coherent detection of THz laser signals in optical fiber systems. Optics Express, 2017, 25, 25566.	1.7	2
178	Line-defect photonic crystal terahertz quantum cascade laser. Journal of Applied Physics, 2019, 126, .	1.1	2
179	Single-electron pump with highly controllable plateaus. Applied Physics Letters, 2021, 119, .	1.5	2
180	Effects of biased and unbiased illuminations on two-dimensional electron gases in dopant-free GaAs/AlGaAs. Physical Review B, 2022, 105, .	1.1	2

#	ARTICLE	IF	CITATIONS
181	Erasable electrostatic lithography. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 717-720.	1.3	1
182	POINT CONTACT SPECTROSCOPY OF MAGNETIC EDGE STATES. <i>International Journal of Modern Physics B</i> , 2007, 21, 1507-1510.	1.0	1
183	Microwave-induced forward scattering and Luttinger liquid interferences in magnetically confined quantum wires. <i>Low Temperature Physics</i> , 2008, 34, 853-857.	0.2	1
184	MAGNETIC FIELD INDUCED INSTABILITIES IN LOCALIZED TWO-DIMENSIONAL ELECTRON SYSTEMS. <i>International Journal of Modern Physics B</i> , 2009, 23, 2708-2712.	1.0	1
185	Optical side-band generation in THz Fabry-Perot laser cavities. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	1
186	High mobility $\text{In}_{0.75}\text{Ga}_{0.25}\text{As}$ quantum wells in an InAs phonon lattice. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 105705.	0.7	1
187	Photovoltage detection of spin excitation of a ferromagnetic stripe and disk at low temperature. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SEED02.	0.8	1
188	Suspended two-dimensional electron gases in $\text{In}_{0.75}\text{Ga}_{0.25}\text{As}$ quantum wells. <i>Applied Physics Letters</i> , 2020, 116, 232106.	1.5	1
189	Ballistic Hall Photovoltammetry of Magnetic Resonance in Individual Nanomagnets. <i>Physical Review Letters</i> , 2021, 126, 207701.	2.9	1
190	Tuning of the intersubband emission below the longitudinal optical phonon energy in GaAs/AlGaAs quantum cascade emitters. <i>Applied Physics Letters</i> , 2003, 83, 1063-1065.	1.5	0
191	Phonon-drag thermopower of lateral superlattices: the role of anisotropic scattering. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 6985-6995.	0.7	0
192	Standing waves of magnetic edge states in mesoscopic magnetic rings. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 193-196.	1.3	0
193	Photoresistance oscillations of magnetic quantum wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1436-1438.	1.3	0
194	Microwave power generation by magnetic superlattices. <i>Applied Physics Letters</i> , 2011, 99, 242107.	1.5	0
195	Continuous wave vertical emission from terahertz microcavity lasers with a dual injection scheme. <i>Optics Express</i> , 2021, 29, 33602.	1.7	0
196	THz carrier dynamics and magnetotransport study of topological surface states in thin film Bi_2Se_3 . , 2018, , .		0
197	Temperature dependence of the ferromagnetic response in $\text{Cr}_x\text{Sb}_{2-x}\text{Te}_3$ topological insulator thin films investigated using terahertz spectroscopy and magneto-transport.. , 2019, , .		0