

Harvey Beere

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

193
papers

8,246
citations

47
h-index

85
g-index

197
ext. papers

9,866
ext. citations

5.5
avg, IF

5.34
L-index

#	Paper	IF	Citations
193	Spatial coherence of electrically pumped random terahertz lasers. <i>Photonics Research</i> , 2022 , 10, 524	6	1
192	An in-plane photoelectric effect in two-dimensional electron systems for terahertz detection.. <i>Science Advances</i> , 2022 , 8, eabi8398	14.3	2
191	Single-electron pump with highly controllable plateaus. <i>Applied Physics Letters</i> , 2021 , 119, 153102	3.4	
190	Self-mixing interferometry and near-field nanoscopy in quantum cascade random lasers at terahertz frequencies. <i>Nanophotonics</i> , 2021 , 10, 1495-1503	6.3	5
189	Ballistic Hall Photovoltammetry of Magnetic Resonance in Individual Nanomagnets. <i>Physical Review Letters</i> , 2021 , 126, 207701	7.4	
188	Continuous wave vertical emission from terahertz microcavity lasers with a dual injection scheme. <i>Optics Express</i> , 2021 , 29, 33602-33614	3.3	
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	1.4	1
186	Suspended two-dimensional electron gases in In _{0.75} Ga _{0.25} As quantum wells. <i>Applied Physics Letters</i> , 2020 , 116, 232106	3.4	0
185	A general approach for hysteresis-free, operationally stable metal halide perovskite field-effect transistors. <i>Science Advances</i> , 2020 , 6, eaaz4948	14.3	73
184	Superconductivity in AuNiGe Ohmic contacts to a GaAs-based high mobility two-dimensional electron gas. <i>Applied Physics Letters</i> , 2020 , 117, 162104	3.4	2
183	High-Throughput Electrical Characterization of Nanomaterials from Room to Cryogenic Temperatures. <i>ACS Nano</i> , 2020 , 14, 15293-15305	16.7	2
182	A Terahertz Chiral Metamaterial Modulator. <i>Advanced Optical Materials</i> , 2020 , 8, 2000581	8.1	15
181	Graphene-Integrated Metamaterial Device for All-Electrical Polarization Control of Terahertz Quantum Cascade Lasers. <i>ACS Photonics</i> , 2019 , 6, 1547-1555	6.3	21
180	Frequency-tunable continuous-wave random lasers at terahertz frequencies. <i>Light: Science and Applications</i> , 2019 , 8, 43	16.7	20
179	Line-defect photonic crystal terahertz quantum cascade laser. <i>Journal of Applied Physics</i> , 2019 , 126, 153104	10.4	1
178	High mobility InGaAs quantum wells in an InAs phonon lattice. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 105705	1.8	1
177	Continuous-wave highly-efficient low-divergence terahertz wire lasers. <i>Nature Communications</i> , 2018 , 9, 1122	17.4	22

176	Active Control of Electromagnetically Induced Transparency in a Terahertz Metamaterial Array with Graphene for Continuous Resonance Frequency Tuning. <i>Advanced Optical Materials</i> , 2018 , 6, 1800570	8.1	56
175	Graphene-loaded metal wire grating for deep and broadband THz modulation in total internal reflection geometry. <i>Photonics Research</i> , 2018 , 6, 1151	6	13
174	Systematic Study of Ferromagnetism in CrSbTe Topological Insulator Thin Films using Electrical and Optical Techniques. <i>Scientific Reports</i> , 2018 , 8, 17024	4.9	7
173	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, 201102	3.4	5
172	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	6.3	8
171	Bolometric detection of terahertz quantum cascade laser radiation with graphene-plasmonic antenna arrays. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 174001	3	17
170	Probing the Topological Surface State in Bi ₂ Se ₃ Thin Films Using Temperature-Dependent Terahertz Spectroscopy. <i>ACS Photonics</i> , 2017 , 4, 2711-2718	6.3	8
169	Continuous-wave laser operation of a dipole antenna terahertz microresonator. <i>Light: Science and Applications</i> , 2017 , 6, e17054	16.7	8
168	Terahertz Nanoscopy of Plasmonic Resonances with a Quantum Cascade Laser. <i>ACS Photonics</i> , 2017 , 4, 2150-2157	6.3	26
167	Optical side-band generation in THz Fabry-Perot laser cavities. <i>Applied Physics Letters</i> , 2017 , 111, 231106	3.4	0
166	High Open-Circuit Voltages in Tin-Rich Low-Bandgap Perovskite-Based Planar Heterojunction Photovoltaics. <i>Advanced Materials</i> , 2017 , 29, 1604744	24	166
165	Coherent detection of THz laser signals in optical fiber systems. <i>Optics Express</i> , 2017 , 25, 25566-25573	3.3	2
164	Single-Photon Superradiance from a Quantum Dot. <i>Physical Review Letters</i> , 2016 , 116, 163604	7.4	41
163	Fast Modulation of Terahertz Quantum Cascade Lasers Using Graphene Loaded Plasmonic Antennas. <i>ACS Photonics</i> , 2016 , 3, 464-470	6.3	30
162	Improved Tuning Fork for Terahertz Quartz-Enhanced Photoacoustic Spectroscopy. <i>Sensors</i> , 2016 , 16, 439	3.8	40
161	Investigation of hollow cylindrical metal terahertz waveguides suitable for cryogenic environments. <i>Optics Express</i> , 2016 , 24, 30002-30014	3.3	11
160	Graphene based plasmonic terahertz amplitude modulator operating above 100 MHz. <i>Applied Physics Letters</i> , 2016 , 108, 171101	3.4	60
159	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	6.3	29

158	Valence band offsets of ScxGa1-xN/AlN and ScxGa1-xN/GaN heterojunctions. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 265110	3	6
157	THz waveguide adapters for efficient radiation out-coupling from double metal THz QCLs. <i>Optics Express</i> , 2015 , 23, 5190-200	3.3	9
156	THz saturable absorption in turbostratic multilayer graphene on silicon carbide. <i>Optics Express</i> , 2015 , 23, 11632-40	3.3	19
155	Demonstration of a fully integrated superconducting receiver with a 2.7 THz quantum cascade laser. <i>Optics Express</i> , 2015 , 23, 4453-8	3.3	8
154	Phase-locked arrays of surface-emitting graded-photonic-heterostructure terahertz semiconductor lasers. <i>Optics Express</i> , 2015 , 23, 6915-23	3.3	12
153	Efficient coupling of double-metal terahertz quantum cascade lasers to flexible dielectric-lined hollow metallic waveguides. <i>Optics Express</i> , 2015 , 23, 26276-87	3.3	5
152	All-electric all-semiconductor spin field-effect transistors. <i>Nature Nanotechnology</i> , 2015 , 10, 35-9	28.7	206
151	Band gaps of wurtzite ScxGa1-xN alloys. <i>Applied Physics Letters</i> , 2015 , 106, 132103	3.4	13
150	Growth variations and scattering mechanisms in metamorphic In0.75Ga0.25As/In0.75Al0.25As quantum wells grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2015 , 425, 70-75	1.6	16
149	Low-bias terahertz amplitude modulator based on split-ring resonators and graphene. <i>ACS Nano</i> , 2014 , 8, 2548-54	16.7	106
148	A quartz enhanced photo-acoustic gas sensor based on a custom tuning fork and a terahertz quantum cascade laser. <i>Analyst, The</i> , 2014 , 139, 2079-87	5	58
147	Terahertz probe of individual subwavelength objects in a water environment. <i>Laser and Photonics Reviews</i> , 2014 , 8, 734-742	8.3	7
146	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	3.4	15
145	Hollow metallic waveguides integrated with terahertz quantum cascade lasers. <i>Optics Express</i> , 2014 , 22, 24439-49	3.3	12
144	Fluence and polarisation dependence of GaAs based Lateral Photo-Dember terahertz emitters. <i>Optics Express</i> , 2014 , 22, 3234-43	3.3	14
143	Single mode terahertz quantum cascade amplifier. <i>Applied Physics Letters</i> , 2014 , 105, 141102	3.4	12
142	Photovoltage Spectroscopy of Dipolar Spin Waves in Dy Micromagnets. <i>Solid State Phenomena</i> , 2014 , 215, 400-406	0.4	2
141	Monolithically integrated two-dimensional arrays of surface-emitting photonic-crystal terahertz lasers. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2013 , 34, 386-392	2.2	2

140	Intrinsic terahertz plasmon signatures in chemical vapour deposited graphene. <i>Applied Physics Letters</i> , 2013 , 103, 121110	3.4	11
139	Demonstration and characterization of an ambipolar high mobility transistor in an undoped GaAs/AlGaAs quantum well. <i>Applied Physics Letters</i> , 2013 , 102, 082105	3.4	12
138	Stable single-mode operation of surface-emitting terahertz lasers with graded photonic heterostructure resonators. <i>Applied Physics Letters</i> , 2013 , 102, 231105	3.4	11
137	Cryogenic on-chip multiplexer for the study of quantum transport in 256 split-gate devices. <i>Applied Physics Letters</i> , 2013 , 102, 243102	3.4	32
136	4.35 kW peak power femtosecond pulse mode-locked VECSEL for supercontinuum generation. <i>Optics Express</i> , 2013 , 21, 1599-605	3.3	94
135	Intrinsic stability of quantum cascade lasers against optical feedback. <i>Optics Express</i> , 2013 , 21, 13748-57	3.3	74
134	Electric field sampling of modelocked pulses from a quantum cascade laser. <i>Optics Express</i> , 2013 , 21, 16162-9	3.3	14
133	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, 16263-72	3.3	25
132	THz QCL-based cryogen-free spectrometer for in situ trace gas sensing. <i>Sensors</i> , 2013 , 13, 3331-40	3.8	43
131	Multiple lateral photo-Dember terahertz emitters illuminated by a cylindrical micro-lens array. <i>Applied Physics Letters</i> , 2013 , 103, 252101	3.4	6
130	Broadband photonic control for dual-mode terahertz laser emission. <i>Applied Physics Letters</i> , 2013 , 102, 181106	3.4	5
129	Electronically tunable aperiodic distributed feedback terahertz lasers. <i>Journal of Applied Physics</i> , 2013 , 113, 203103	2.5	6
128	Ultra-shallow quantum dots in an undoped GaAs/AlGaAs two-dimensional electron gas. <i>Applied Physics Letters</i> , 2013 , 102, 103507	3.4	14
127	Reversible mode switching in Y-coupled terahertz lasers. <i>Applied Physics Letters</i> , 2013 , 102, 111105	3.4	6
126	Indirect Modulation of a Terahertz Quantum Cascade Laser Using Gate Tunable Graphene. <i>IEEE Photonics Journal</i> , 2012 , 4, 1776-1782	1.8	5
125	All-optical wavelength shifting in a semiconductor laser using resonant nonlinearities. <i>Nature Photonics</i> , 2012 , 6, 519-524	3.9	18
124	Linear non-hysteretic gating of a very high density 2DEG in an undoped metal-semiconductor-metal sandwich structure. <i>Semiconductor Science and Technology</i> , 2012 , 27, 115006	1.8	2
123	175 GHz, 400-fs-pulse harmonically mode-locked surface emitting semiconductor laser. <i>Optics Express</i> , 2012 , 20, 7040-5	3.3	25

122	Terahertz emission by diffusion of carriers and metal-mask dipole inhibition of radiation. <i>Optics Express</i> , 2012 , 20, 8898-906	3.3	16
121	Mode-locking of a terahertz laser by direct phase synchronization. <i>Optics Express</i> , 2012 , 20, 20855-62	3.3	19
120	Terahertz confocal microscopy with a quantum cascade laser source. <i>Optics Express</i> , 2012 , 20, 21924-31	3.3	42
119	Discrete mode tuning in terahertz quantum cascade lasers. <i>Optics Express</i> , 2012 , 20, B306-14	3.3	16
118	Direct intensity sampling of a modelocked terahertz quantum cascade laser. <i>Applied Physics Letters</i> , 2012 , 101, 181115	3.4	21
117	Longitudinal computer-generated holograms for digital frequency control in electronically tunable terahertz lasers. <i>Applied Physics Letters</i> , 2012 , 101, 121103	3.4	9
116	High efficiency coupling of Terahertz micro-ring quantum cascade lasers to the low-loss optical modes of hollow metallic waveguides. <i>Optics Express</i> , 2011 , 19, 1122-30	3.3	21
115	Repetition-frequency-tunable mode-locked surface emitting semiconductor laser between 2.78 and 7.87 GHz. <i>Optics Express</i> , 2011 , 19, 23453-9	3.3	17
114	Terahertz near-field imaging using subwavelength plasmonic apertures and a quantum cascade laser source. <i>Optics Letters</i> , 2011 , 36, 2393-5	3	7
113	Broad gain in a bound-to-continuum quantum cascade laser with heterogeneous active region. <i>Applied Physics Letters</i> , 2011 , 99, 241108	3.4	12
112	Resistively detected nuclear magnetic resonance in n- and p-type GaAs quantum point contacts. <i>Nano Letters</i> , 2011 , 11, 3147-50	11.5	24
111	Double spin resonance in a spatially periodic magnetic field with zero average. <i>Europhysics Letters</i> , 2011 , 94, 28001	1.6	10
110	Lasing in planar semiconductor diodes. <i>Applied Physics Letters</i> , 2011 , 99, 261110	3.4	2
109	Microwave power generation by magnetic superlattices. <i>Applied Physics Letters</i> , 2011 , 99, 242107	3.4	
108	Anti-bunched photons from a lateral light-emitting diode. <i>Applied Physics Letters</i> , 2011 , 99, 131103	3.4	1
107	Variable repetition frequency femtosecond-pulse surface emitting semiconductor laser. <i>Applied Physics Letters</i> , 2011 , 99, 131107	3.4	12
106	Tuneable polaritonics at room temperature with strongly coupled Tamm plasmon polaritons in metal/air-gap microcavities. <i>Applied Physics Letters</i> , 2011 , 98, 231105	3.4	41
105	Gain enhancement in a terahertz quantum cascade laser with parylene antireflection coatings. <i>Applied Physics Letters</i> , 2011 , 98, 101102	3.4	15

104	Quasi-periodic distributed feedback laser. <i>Nature Photonics</i> , 2010 , 4, 165-169	33.9	90
103	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	33.9	110
102	High-power surface emission from terahertz distributed feedback lasers with a dual-slit unit cell. <i>Applied Physics Letters</i> , 2010 , 96, 191109	3.4	40
101	Passively harmonically mode-locked vertical-external-cavity surface-emitting laser emitting 1.1 ps pulses at 147 GHz repetition rate. <i>Applied Physics Letters</i> , 2010 , 97, 251101	3.4	15
100	High Peak Power Femtosecond Pulse Passively Mode-Locked Vertical-External-Cavity Surface-Emitting Laser. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1021-1023	2.2	38
99	Tuning a distributed feedback laser with a coupled microcavity. <i>Optics Express</i> , 2010 , 18, 19185-91	3.3	28
98	Injection-locking of terahertz quantum cascade lasers up to 35GHz using RF amplitude modulation. <i>Optics Express</i> , 2010 , 18, 20799-816	3.3	77
97	Distinguishing impurity concentrations in GaAs and AlGaAs using very shallow undoped heterostructures. <i>Applied Physics Letters</i> , 2010 , 97, 242107	3.4	21
96	Quasibound states in semiconductor quantum well structures. <i>Superlattices and Microstructures</i> , 2010 , 47, 288-299	2.8	9
95	Wide dynamic range terahertz detector pixel for active spectroscopic imaging with quantum cascade lasers. <i>Applied Physics Letters</i> , 2009 , 95, 213501	3.4	12
94	MAGNETIC FIELD INDUCED INSTABILITIES IN LOCALIZED TWO-DIMENSIONAL ELECTRON SYSTEMS. <i>International Journal of Modern Physics B</i> , 2009 , 23, 2708-2712	1.1	1
93	Electrically pumped photonic-crystal terahertz lasers controlled by boundary conditions. <i>Nature</i> , 2009 , 457, 174-8	50.4	244
92	Vertically emitting microdisk lasers. <i>Nature Photonics</i> , 2009 , 3, 46-49	33.9	92
91	Design and simulation of a THz QCL based on π depopulation mechanism. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 1240-1242	3	3
90	Finite size effects in surface emitting Terahertz quantum cascade lasers. <i>Optics Express</i> , 2009 , 17, 6703-9	3.3	9
89	Distributed feedback ring resonators for vertically emitting terahertz quantum cascade lasers. <i>Optics Express</i> , 2009 , 17, 13031-9	3.3	21
88	Resonant tuning fork detector for THz radiation. <i>Optics Express</i> , 2009 , 17, 14069-74	3.3	13
87	Spectral behavior of a terahertz quantum-cascade laser. <i>Optics Express</i> , 2009 , 17, 20476-83	3.3	14

86	Differential near-field scanning optical microscopy with THz quantum cascade laser sources. <i>Optics Express</i> , 2009 , 17, 23785-92	3.3	10
85	Low temperature transport in undoped mesoscopic structures. <i>Applied Physics Letters</i> , 2009 , 94, 172105	3.4	14
84	Quantum Cascade Detectors. <i>IEEE Journal of Quantum Electronics</i> , 2009 , 45, 1039-1052	2	141
83	Terahertz Quantum Cascade Devices: From Intersubband Transition to Microcavity Laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008 , 14, 307-314	3.8	2
82	Frequency Manipulation of THz Bound-to-Continuum Quantum-Cascade Lasers. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 303-305	2.2	10
81	Distributed Feedback THz Quantum-Cascade Lasers Using Thin Double-Metallic Gratings. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 857-859	2.2	7
80	Bychkov-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 . <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 472207	1.8	9
79	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	2.5	8
78	Surface plasmon quantum cascade lasers as terahertz local oscillators. <i>Optics Letters</i> , 2008 , 33, 312-4	3	30
77	All-semiconductor room-temperature terahertz time domain spectrometer. <i>Optics Letters</i> , 2008 , 33, 2125-7	3	24
76	Electrically switchable emission in terahertz quantum cascade lasers. <i>Optics Express</i> , 2008 , 16, 19830-5	3.3	25
75	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	3.4	57
74	Laser Local Oscillators for Heterodyne Receivers beyond 2 Terahertz. <i>Frequenz</i> , 2008 , 62, 111-117	0.6	2
73	Surface-emitting photonic crystal terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2008 , 93, 171112	3.4	12
72	Metal-metal terahertz quantum cascade laser with micro-transverse-electromagnetic-horn antenna. <i>Applied Physics Letters</i> , 2008 , 93, 183508	3.4	47
71	Quantum transport in In _{0.75} Ga _{0.25} As quantum wires. <i>Applied Physics Letters</i> , 2008 , 92, 152108	3.4	23
70	Improved wall plug efficiency of a 1.9THz quantum cascade laser by an automated design approach. <i>Applied Physics Letters</i> , 2008 , 93, 191119	3.4	7
69	Intensity detection of terahertz quantum cascade laser radiation using electro-optic sampling. <i>Applied Physics Letters</i> , 2008 , 93, 191111	3.4	8

68	Anomalous coulomb drag in electron-hole bilayers. <i>Physical Review Letters</i> , 2008 , 101, 246801	7.4	88
67	Microwave-induced forward scattering and Luttinger liquid interferences in magnetically confined quantum wires. <i>Low Temperature Physics</i> , 2008 , 34, 853-857	0.7	1
66	Quantisation of hopping magnetoresistance prefactor in strongly correlated two-dimensional electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1347-1350	3	2
65	Photoresistance oscillations of magnetic quantum wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1436-1438	3	
64	POINT CONTACT SPECTROSCOPY OF MAGNETIC EDGE STATES. <i>International Journal of Modern Physics B</i> , 2007 , 21, 1507-1510	1.1	1
63	Terahertz transfer onto a telecom optical carrier. <i>Nature Photonics</i> , 2007 , 1, 411-415	33.9	40
62	Frequency Characterization of a Terahertz Quantum-Cascade Laser. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007 , 56, 262-265	5.2	8
61	Analysis of photomixer receivers for continuous-wave terahertz radiation. <i>Applied Physics Letters</i> , 2007 , 91, 154103	3.4	13
60	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	2.5	11
59	Imprinted diffractive optics for terahertz radiation. <i>Optics Letters</i> , 2007 , 32, 1141-3	3	29
58	Excitation-density-dependent generation of broadband terahertz radiation in an asymmetrically excited photoconductive antenna. <i>Optics Letters</i> , 2007 , 32, 2297-9	3	41
57	13GHz direct modulation of terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2007 , 91, 143510	3.4	61
56	Tunable terahertz quantum cascade lasers with an external cavity. <i>Applied Physics Letters</i> , 2007 , 91, 121104	3.4	64
55	Molecular Spectroscopy with TeraHertz Quantum Cascade Lasers. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2007 , 2, 101-107	1.3	13
54	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	1.8	6
53	Electrically switchable, two-color quantum cascade laser emitting at 1.39 and 2.3THz. <i>Applied Physics Letters</i> , 2006 , 88, 141102	3.4	56
52	Subband electronic temperatures and electron-lattice energy relaxation in terahertz quantum cascade lasers with different conduction band offsets. <i>Applied Physics Letters</i> , 2006 , 89, 131114	3.4	25
51	Examination of surface acoustic wave reflections by observing acoustoelectric current generation under pulse modulation. <i>Applied Physics Letters</i> , 2006 , 89, 132102	3.4	12

50	Electron-lattice coupling in bound-to-continuum THz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2006 , 88, 241109	3.4	30
49	Low frequency terahertz quantum cascade laser operating from 1.6to1.8THz. <i>Applied Physics Letters</i> , 2006 , 89, 231121	3.4	94
48	Acoustic charge transport in a n-i-n three terminal device. <i>Applied Physics Letters</i> , 2006 , 88, 212101	3.4	5
47	Thermal properties of THz quantum cascade lasers based on different optical waveguide configurations. <i>Applied Physics Letters</i> , 2006 , 89, 021111	3.4	33
46	A THz quantum cascade detector in a strong perpendicular magnetic field. <i>Semiconductor Science and Technology</i> , 2006 , 21, 1743-1746	1.8	15
45	Continuous wave operation of a superlattice quantum cascade laser emitting at 2 THz. <i>Optics Express</i> , 2006 , 14, 171-81	3.3	66
44	Three-dimensional imaging with a terahertz quantum cascade laser. <i>Optics Express</i> , 2006 , 14, 2123-9	3.3	86
43	Surface plasmon photonic structures in terahertz quantum cascade lasers. <i>Optics Express</i> , 2006 , 14, 5335-35	3.3	47
42	Kelvin probe microscopy to image and characterise erasable electrostatic lithography. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 686-688	3	3
41	Fabrication of closely spaced, independently contacted electron-hole bilayers in GaAs-AlGaAs heterostructures. <i>Applied Physics Letters</i> , 2005 , 87, 202104	3.4	20
40	Mechanisms of dynamic range limitations in GaAs-AlGaAs quantum-cascade lasers: Influence of injector doping. <i>Applied Physics Letters</i> , 2005 , 86, 211117	3.4	55
39	Terahertz quantum cascade laser as local oscillator in a heterodyne receiver. <i>Optics Express</i> , 2005 , 13, 5890-6	3.3	120
38	Imaging with THz quantum cascade lasers using a Schottky diode mixer. <i>Optics Express</i> , 2005 , 13, 6497-503	3.3	59
37	High-performance operation of single-mode terahertz quantum cascade lasers with metallic gratings. <i>Applied Physics Letters</i> , 2005 , 87, 181101	3.4	60
36	Terahertz quantum cascade lasers—first demonstration and novel concepts. <i>Semiconductor Science and Technology</i> , 2005 , 20, S222-S227	1.8	33
35	Terahertz frequency range band-stop filters. <i>Applied Physics Letters</i> , 2005 , 86, 213503	3.4	38
34	Surface acoustic wave-induced electroluminescence intensity oscillation in planar light-emitting devices. <i>Applied Physics Letters</i> , 2005 , 86, 241107	3.4	16
33	Characteristics of a micromachined floating-gate high-electron-mobility transistor at 4.2K. <i>Journal of Applied Physics</i> , 2005 , 97, 114507	2.5	6

32	High power quantum cascade lasers operating at 287 and 130 μ m. <i>Applied Physics Letters</i> , 2004 , 85, 3986-3988	3.4	66
31	Single-mode operation of terahertz quantum cascade lasers with distributed feedback resonators. <i>Applied Physics Letters</i> , 2004 , 84, 5446-5448	3.4	51
30	2.9THz quantum cascade lasers operating up to 70K in continuous wave. <i>Applied Physics Letters</i> , 2004 , 85, 1674-1676	3.4	180
29	Quantized charge pumping through a quantum dot by surface acoustic waves. <i>Applied Physics Letters</i> , 2004 , 84, 4319-4321	3.4	51
28	Terahertz emission from quantum cascade lasers in the quantum Hall regime: evidence for many body resonances and localization effects. <i>Physical Review Letters</i> , 2004 , 93, 237403	7.4	64
27	Surface acoustic wave-driven planar light-emitting device. <i>Applied Physics Letters</i> , 2004 , 85, 3020-3022	3.4	14
26	Density-dependent instabilities in correlated two dimensional electron systems. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 3623-3631	1.8	7
25	Terahertz range quantum well infrared photodetector. <i>Applied Physics Letters</i> , 2004 , 84, 475-477	3.4	160
24	Standing waves of magnetic edge states in mesoscopic magnetic rings. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 22, 193-196	3	
23	Erasable electrostatic lithography. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 22, 717-720	3	1
22	Terahertz quantum-cascade lasers based on an interlaced photon-phonon cascade. <i>Applied Physics Letters</i> , 2004 , 84, 1266-1268	3.4	48
21	Possible evidence of a spontaneous spin polarization in mesoscopic two-dimensional electron systems. <i>Physical Review Letters</i> , 2004 , 92, 116601	7.4	46
20	Generation and detection of ultrabroadband terahertz radiation using photoconductive emitters and receivers. <i>Applied Physics Letters</i> , 2004 , 85, 164-166	3.4	122
19	Application of terahertz quantum-cascade lasers to semiconductor cyclotron resonance. <i>Optics Letters</i> , 2004 , 29, 122-4	3	11
18	Linewidth and tuning characteristics of terahertz quantum cascade lasers. <i>Optics Letters</i> , 2004 , 29, 575-73		92
17	Heterodyne mixing of two far-infrared quantum cascade lasers by use of a point-contact Schottky diode. <i>Optics Letters</i> , 2004 , 29, 1632-4	3	55
16	Phonon-drag thermopower of lateral superlattices: the role of anisotropic scattering. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 6985-6995	1.8	
15	Population inversion by resonant magnetic confinement in terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2003 , 83, 3453-3455	3.4	16

14	Erasable electrostatic lithography for quantum components. <i>Nature</i> , 2003 , 424, 751-4	50.4	51
13	Low-threshold quantum-cascade lasers at 3.5 THz ($\lambda = 85$ microm). <i>Optics Letters</i> , 2003 , 28, 810-2	3	22
12	Far-infrared (≈ 87 μm) bound-to-continuum quantum-cascade lasers operating up to 90 K. <i>Applied Physics Letters</i> , 2003 , 82, 3165-3167	3.4	184
11	High resistivity annealed low-temperature GaAs with 100 fs lifetimes. <i>Applied Physics Letters</i> , 2003 , 83, 4199-4201	3.4	110
10	Ultrabroadband terahertz radiation from low-temperature-grown GaAs photoconductive emitters. <i>Applied Physics Letters</i> , 2003 , 83, 3117-3119	3.4	141
9	High-performance continuous-wave operation of superlattice terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2003 , 82, 1518-1520	3.4	48
8	High-performance planar light-emitting diodes. <i>Applied Physics Letters</i> , 2003 , 82, 636-638	3.4	20
7	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	3.4	
6	Imaging fractal conductance fluctuations and scarred wave functions in a quantum billiard. <i>Physical Review Letters</i> , 2003 , 91, 246803	7.4	102
5	Electron Assisted Variable Range Hopping in Strongly Correlated 2D Electron Systems. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 230, 211-216	1.3	12
4	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	3	6
3	Terahertz semiconductor-heterostructure laser. <i>Nature</i> , 2002 , 417, 156-9	50.4	1932
2	Low-threshold terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2002 , 81, 1381-1383	3.4	166
1	High-intensity interminiband terahertz emission from chirped superlattices. <i>Applied Physics Letters</i> , 2002 , 80, 1867-1869	3.4	34