

A Giles Davies

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.

306
papers

10,508
citations

47
h-index

93
g-index

447
ext. papers

12,857
ext. citations

5.4
avg, IF

5.74
L-index

#	Paper	IF	Citations
306	10 Gbit s ⁻¹ Free Space Data Transmission at 9.4 μ m Wavelength With Unipolar Quantum Optoelectronics. <i>Laser and Photonics Reviews</i> , 2022 , 16, 2100414	8.3	3
305	A Nanoscale Double sided mid-IR photodetector based on a MIM architecture. <i>Applied Physics Letters</i> , 2021 , 119, 181102	3.4	1
304	Millimeter wave photonics with terahertz semiconductor lasers. <i>Nature Communications</i> , 2021 , 12, 1427	17.4	16
303	All-Electronic Phase-Resolved THz Microscopy Using the Self-Mixing Effect in a Semiconductor Laser. <i>ACS Photonics</i> , 2021 , 8, 1001-1006	6.3	3
302	Terahertz magnetoplasmon resonances in coupled cavities formed in a gated two-dimensional electron gas. <i>Optics Express</i> , 2021 , 29, 12958-12966	3.3	2
301	Chip-Scale Terahertz Frequency Combs through Integrated Intersubband Polariton Bleaching. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000575	8.3	3
300	Coherent terahertz microscopy of modal field distributions in micro-resonators. <i>APL Photonics</i> , 2021 , 6, 066104	5.2	3
299	Broadband Terahertz Gas Spectroscopy Through Multimode Self-Mixing in a Quantum Cascade Laser. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2021 , 35-44	0.2	
298	Micro-homology intermediates: RecA's transient sampling revealed at the single molecule level. <i>Nucleic Acids Research</i> , 2021 , 49, 1426-1435	20.1	0
297	Observation of optical feedback dynamics in single-mode terahertz quantum cascade lasers: Transient instabilities. <i>Physical Review A</i> , 2021 , 103,	2.6	8
296	Terahertz quantum cascade laser under optical feedback: effects of laser self-pulsations on self-mixing signals. <i>Optics Express</i> , 2021 , 29, 39885-39895	3.3	0
295	Terahertz imaging with self-pulsations in quantum cascade lasers under optical feedback. <i>APL Photonics</i> , 2021 , 6, 091301	5.2	2
294	Tunable, Grating-Gated, Graphene-On-Polyimide Terahertz Modulators. <i>Advanced Functional Materials</i> , 2021 , 31, 2008039	15.6	10
293	Field-resolved high-order sub-cycle nonlinearities in a terahertz semiconductor laser.. <i>Light: Science and Applications</i> , 2021 , 10, 246	16.7	1
292	Quantum cascade laser based hybrid dual comb spectrometer. <i>Communications Physics</i> , 2020 , 3,	5.4	17
291	Absorption Engineering in an Ultrasubwavelength Quantum System. <i>Nano Letters</i> , 2020 , 20, 4430-4436	11.5	9
290	Programmable, Transform-Limited Pulses from a Terahertz Quantum Cascade Laser. <i>ACS Photonics</i> , 2020 , 7, 2423-2428	6.3	

289	Wideband Electrically Controlled Vernier Frequency Tunable Terahertz Quantum Cascade Laser. <i>ACS Photonics</i> , 2020 , 7, 765-773	6.3	5
288	Corrections to Mode Selection and Tuning Mechanisms in Coupled-Cavity Terahertz Quantum Cascade Lasers [Jul/Aug 17 Art. no. 1200312]. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020 , 26, 1-1	3.8	
287	High-speed modulation of a terahertz quantum cascade laser by coherent acoustic phonon pulses. <i>Nature Communications</i> , 2020 , 11, 835	17.4	14
286	Electrically pumped topological laser with valley edge modes. <i>Nature</i> , 2020 , 578, 246-250	50.4	151
285	Quantum Transmission Line Modeling and Experimental Investigation of the Output Characteristics of a Terahertz Quantum Cascade Laser. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2020 , 10, 333-342	3.4	1
284	Long-wavelength infrared photovoltaic heterodyne receivers using patch-antenna quantum cascade detectors. <i>Applied Physics Letters</i> , 2020 , 116, 161101	3.4	18
283	Highly efficient surface-emitting semiconductor lasers exploiting quasi-crystalline distributed feedback photonic patterns. <i>Light: Science and Applications</i> , 2020 , 9, 54	16.7	12
282	Increasing the sensitivity of terahertz metamaterials for dielectric sensing by substrate etching 2020 ,		1
281	Terahertz photonic integrated circuit for frequency tuning and power modulation. <i>Optics Express</i> , 2020 , 28, 4374-4386	3.3	3
280	Photoconductive arrays on insulating substrates for high-field terahertz generation. <i>Optics Express</i> , 2020 , 28, 17219-17231	3.3	6
279	Exact frequency and phase control of a terahertz laser. <i>Optica</i> , 2020 , 7, 1143	8.6	1
278	Quasi-static and propagating modes in three-dimensional THz circuits. <i>Optics Express</i> , 2020 , 28, 16982-16995	3.3	3
277	Modeling and improving the output power of terahertz master-oscillator power-amplifier quantum cascade lasers. <i>Optics Express</i> , 2020 , 28, 23239-23250	3.3	1
276	High temperature metamaterial terahertz quantum detector. <i>Applied Physics Letters</i> , 2020 , 117, 251102	3.4	11
275	Mixing Properties of Room Temperature Patch-Antenna Receivers in a Mid-Infrared (100 μ m) Heterodyne System. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900207	8.3	5
274	Terahertz master-oscillator power-amplifier quantum Cascade laser with controllable polarization. <i>Applied Physics Letters</i> , 2020 , 117, 021103	3.4	1
273	Terahertz Frequency Combs Exploiting an On-Chip, Solution-Processed, Graphene-Quantum Cascade Laser Coupled-Cavity. <i>ACS Photonics</i> , 2020 , 7, 3489-3498	6.3	10
272	Ultrafast terahertz saturable absorbers using tailored intersubband polaritons. <i>Nature Communications</i> , 2020 , 11, 4290	17.4	7

271	Nanospectroscopy of a single patch antenna strongly coupled to a mid-infrared intersubband transition in a quantum well. <i>Applied Physics Letters</i> , 2020 , 117, 101104	3.4	3
270	External cavity terahertz quantum cascade laser with a metamaterial/graphene optoelectronic mirror. <i>Applied Physics Letters</i> , 2020 , 117, 041105	3.4	5
269	Giant optical nonlinearity interferences in quantum structures. <i>Science Advances</i> , 2019 , 5, eaaw7554	14.3	6
268	Waveguide-integrated THz Quantum-Cascade Lasers for Atmospheric-Research Satellite Payloads 2019 ,		1
267	Frequency-tunable continuous-wave random lasers at terahertz frequencies. <i>Light: Science and Applications</i> , 2019 , 8, 43	16.7	20
266	Full-wave modelling of terahertz frequency plasmons in two-dimensional electron systems. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 215101	3	2
265	Ultrastrong Light-Matter Coupling in Deeply Subwavelength THz LC Resonators. <i>ACS Photonics</i> , 2019 , 6, 1207-1215	6.3	19
264	Tunable and compact dispersion compensation of broadband THz quantum cascade laser frequency combs. <i>Optics Express</i> , 2019 , 27, 20231-20240	3.3	20
263	Fully phase-stabilized quantum cascade laser frequency comb. <i>Nature Communications</i> , 2019 , 10, 2938	17.4	43
262	3.5 THz quantum-cascade laser emission from dual diagonal feedhorns. <i>International Journal of Microwave and Wireless Technologies</i> , 2019 , 11, 909-917	0.8	1
261	Fully Phase Stabilized Quantum Cascade Laser Frequency Comb 2019 ,		1
260	Ultrafast two-dimensional field spectroscopy of terahertz intersubband saturable absorbers. <i>Optics Express</i> , 2019 , 27, 2248-2257	3.3	6
259	Coherent imaging using laser feedback interferometry with pulsed-mode terahertz quantum cascade lasers. <i>Optics Express</i> , 2019 , 27, 10221-10233	3.3	21
258	Increasing the sensitivity of terahertz split ring resonator metamaterials for dielectric sensing by localized substrate etching. <i>Optics Express</i> , 2019 , 27, 23164-23172	3.3	24
257	Tunable broadband terahertz polarizer using graphene-metal hybrid metasurface. <i>Optics Express</i> , 2019 , 27, 33768-33778	3.3	12
256	Detection sensitivity of laser feedback interferometry using a terahertz quantum cascade laser. <i>Optics Letters</i> , 2019 , 44, 3314-3317	3	8
255	Optomechanical response with nanometer resolution in the self-mixing signal of a terahertz quantum cascade laser. <i>Optics Letters</i> , 2019 , 44, 5663-5666	3	3
254	Compact and sensitive heterodyne receiver at 2.7 THz exploiting a quasi-optical HEB-QCL coupling scheme. <i>Applied Physics Letters</i> , 2019 , 115, 231104	3.4	5

253	High Dynamic Range, Heterogeneous, Terahertz Quantum Cascade Lasers Featuring Thermally Tunable Frequency Comb Operation over a Broad Current Range. <i>ACS Photonics</i> , 2019 , 6, 73-78	6.3	23
252	Confinement of picosecond timescale current pulses by tapered coplanar waveguides. <i>Applied Physics Letters</i> , 2018 , 112, 181103	3.4	3
251	Room-temperature nine- μ m-wavelength photodetectors and GHz-frequency heterodyne receivers. <i>Nature</i> , 2018 , 556, 85-88	50.4	124
250	Continuous-wave highly-efficient low-divergence terahertz wire lasers. <i>Nature Communications</i> , 2018 , 9, 1122	17.4	22
249	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	6.3	10
248	Silver-based surface plasmon waveguide for terahertz quantum cascade lasers. <i>Optics Express</i> , 2018 , 26, 3814-3827	3.3	13
247	Phase-resolved terahertz self-detection near-field microscopy. <i>Optics Express</i> , 2018 , 26, 18423-18435	3.3	41
246	Gas spectroscopy with integrated frequency monitoring through self-mixing in a terahertz quantum-cascade laser. <i>Optics Letters</i> , 2018 , 43, 2225-2228	3	8
245	Terahertz emission from localized modes in one-dimensional disordered systems [Invited]. <i>Photonics Research</i> , 2018 , 6, 117	6	3
244	Terahertz master-oscillator power-amplifier quantum cascade laser with a grating coupler of extremely low reflectivity. <i>Optics Express</i> , 2018 , 26, 1942-1953	3.3	9
243	Ultrafast switch-on dynamics of frequency-tuneable semiconductor lasers. <i>Nature Communications</i> , 2018 , 9, 3076	17.4	11
242	Two-Dimensional Multimode Terahertz Random Lasing with Metal Pillars. <i>ACS Photonics</i> , 2018 , 5, 2928-2935	3.5	13
241	Gas spectroscopy through multimode self-mixing in a double-metal terahertz quantum cascade laser. <i>Optics Letters</i> , 2018 , 43, 5933-5936	3	5
240	A high electron mobility phonotransistor. <i>Communications Physics</i> , 2018 , 1,	5.4	1
239	Determining Ethanol Content of Liquid Solutions Using Laser Feedback Interferometry with a Terahertz Quantum Cascade Laser 2018 , 2, 1-4		6
238	Noise characterization of patch antenna THz photodetectors. <i>Applied Physics Letters</i> , 2018 , 113, 161105	3.4	8
237	Enhancement of RecA-mediated self-assembly in DNA nanostructures through basepair mismatches and single-strand nicks. <i>Scientific Reports</i> , 2017 , 7, 41081	4.9	6
236	Rapid cell separation with minimal manipulation for autologous cell therapies. <i>Scientific Reports</i> , 2017 , 7, 41872	4.9	27

235	Mode Selection and Tuning Mechanisms in Coupled-Cavity Terahertz Quantum Cascade Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-12	3.8	8
234	Monolithic Semiconductor Lasers with Dynamically Tunable Linear-to-Circular Polarization. <i>ACS Photonics</i> , 2017 , 4, 517-524	6.3	17
233	Monolithic echo-less photoconductive switches as a high-resolution detector for terahertz time-domain spectroscopy. <i>Applied Physics Letters</i> , 2017 , 110, 141102	3.4	12
232	. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2017 , 7, 360-367	3.4	8
231	Terahertz saturable absorbers from liquid phase exfoliation of graphite. <i>Nature Communications</i> , 2017 , 8, 15763	17.4	69
230	Infinite-Period Density-Matrix Model for Terahertz-Frequency Quantum Cascade Lasers. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2017 , 7, 368-377	3.4	9
229	The Development of a Semtex-H Simulant for Terahertz Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017 , 38, 325-338	2.2	5
228	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 043001	7.24	
227	Field-enhanced direct tunneling in ultrathin atomic-layer-deposition-grown Au/Al ₂ O ₃ /Cr metal-insulator-metal structures. <i>Physical Review B</i> , 2017 , 96,	3.3	7
226	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	1
225	Measurement of the emission spectrum of a semiconductor laser using laser-feedback interferometry. <i>Scientific Reports</i> , 2017 , 7, 7236	4.9	15
224	On-Chip Terahertz-Frequency Measurements of Liquids. <i>Analytical Chemistry</i> , 2017 , 89, 7981-7987	7.8	15
223	Quasi-continuous frequency tunable terahertz quantum cascade lasers with coupled cavity and integrated photonic lattice. <i>Optics Express</i> , 2017 , 25, 486-496	3.3	13
222	Multi-spectral terahertz sensing: proposal for a coupled-cavity quantum cascade laser based optical feedback interferometer. <i>Optics Express</i> , 2017 , 25, 10153-10165	3.3	13
221	Terahertz generation mechanism in nano-grating electrode photomixers on Fe-doped InGaAsP. <i>Optics Express</i> , 2017 , 25, 10177-10188	3.3	2
220	Two-dimensional coherent spectroscopy of a THz quantum cascade laser: observation of multiple harmonics. <i>Optics Express</i> , 2017 , 25, 21753-21761	3.3	7
219	Injection locking of a terahertz quantum cascade laser to a telecommunications wavelength frequency comb. <i>Optica</i> , 2017 , 4, 1059	8.6	15
218	Ultrafast terahertz detectors based on three-dimensional meta-atoms. <i>Optica</i> , 2017 , 4, 1451	8.6	15

217	Gain recovery time in a terahertz quantum cascade laser. <i>Applied Physics Letters</i> , 2016 , 108, 081104	3.4	18
216	Integrated On-Chip THz Sensors for Fluidic Systems Fabricated Using Flexible Polyimide Films. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016 , 6, 619-624	3.4	16
215	Engineered far-fields of metal-metal terahertz quantum cascade lasers with integrated planar horn structures. <i>Optics Express</i> , 2016 , 24, 2174-82	3.3	8
214	Label-free electrochemical impedance biosensor to detect human interleukin-8 in serum with sub-pg/ml sensitivity. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 607-613	11.8	87
213	Diffuse-Reflectance Spectroscopy Using a Frequency-Switchable Terahertz Quantum Cascade Laser. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016 , 6, 341-347	3.4	2
212	Generation of Terahertz Radiation from Fe-doped InGaAsP Using 800 nm to 1550 nm Pulsed Laser Excitation. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016 , 37, 415-425	2.2	19
211	Amorphous Random Lasing at Terahertz Frequency 2016 ,		1
210	Multimode, Aperiodic Terahertz Surface-Emitting Laser Resonators. <i>Photonics</i> , 2016 , 3, 32	2.2	10
209	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,	3.8	19
208	Model for a pulsed terahertz quantum cascade laser under optical feedback. <i>Optics Express</i> , 2016 , 24, 20554-70	3.3	15
207	Origin of terminal voltage variations due to self-mixing in terahertz frequency quantum cascade lasers. <i>Optics Express</i> , 2016 , 24, 21948-56	3.3	8
206	Free-space terahertz radiation from a LT-GaAs-on-quartz large-area photoconductive emitter. <i>Optics Express</i> , 2016 , 24, 26986-26997	3.3	13
205	Extraction-controlled terahertz frequency quantum cascade lasers with a diagonal LO-phonon extraction and injection stage. <i>Optics Express</i> , 2016 , 24, 28583-28593	3.3	6
204	Designer Multimode Localized Random Lasing in Amorphous Lattices at Terahertz Frequencies. <i>ACS Photonics</i> , 2016 , 3, 2453-2460	6.3	22
203	Apertureless near-field terahertz imaging using the self-mixing effect in a quantum cascade laser. <i>Applied Physics Letters</i> , 2016 , 108, 091113	3.4	41
202	Room temperature strong light-matter coupling in three dimensional terahertz meta-atoms. <i>Applied Physics Letters</i> , 2016 , 108, 101101	3.4	11
201	Generation of continuous wave terahertz frequency radiation from metal-organic chemical vapour deposition grown Fe-doped InGaAs and InGaAsP. <i>Journal of Applied Physics</i> , 2016 , 119, 153103	2.5	7
200	Time-domain measurement of terahertz frequency magnetoplasmon resonances in a two-dimensional electron system by the direct injection of picosecond pulsed currents. <i>Applied Physics Letters</i> , 2016 , 108, 091109	3.4	5

199	Frequency and amplitude modulation of ultra-compact terahertz quantum cascade lasers using an integrated avalanche diode oscillator. <i>Scientific Reports</i> , 2016 , 6, 23053	4.9	5
198	Diffraction-limited ultrabroadband terahertz spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 24811	4.9	13
197	Accurate parameter extraction from liquids measured using on-chip terahertz spectroscopy 2016 ,		1
196	Patch antenna microcavity terahertz sources with enhanced emission. <i>Applied Physics Letters</i> , 2016 , 109, 141103	3.4	5
195	Terahertz master-oscillator power-amplifier quantum cascade lasers. <i>Applied Physics Letters</i> , 2016 , 109, 231105	3.4	17
194	Optical feedback effects on terahertz quantum cascade lasers: modelling and applications 2016 ,		1
193	Multilayer extraction of complex refractive index in broadband transmission terahertz time-domain spectroscopy 2016 ,		1
192	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	2.2	2
191	DNA self-assembly-driven positioning of molecular components on nanopatterned surfaces. <i>Nanotechnology</i> , 2016 , 27, 395301	3.4	4
190	THz waveguide adapters for efficient radiation out-coupling from double metal THz QCLs. <i>Optics Express</i> , 2015 , 23, 5190-200	3.3	9
189	On-chip picosecond pulse detection and generation using graphene photoconductive switches. <i>Nano Letters</i> , 2015 , 15, 1591-6	11.5	20
188	Active phase-nulling of the self-mixing phase in a terahertz frequency quantum cascade laser. <i>Optics Letters</i> , 2015 , 40, 950-3	3	4
187	Near-Field Analysis of Terahertz Pulse Generation From Photo-Excited Charge Density Gradients. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015 , 5, 260-267	3.4	9
186	Antibody mimetic receptor proteins for label-free biosensors. <i>Analyst, The</i> , 2015 , 140, 803-10	5	19
185	The MBE growth and optimization of high performance terahertz frequency quantum cascade lasers. <i>Optics Express</i> , 2015 , 23, 2720-9	3.3	32
184	Optical sideband generation up to room temperature with mid-infrared quantum cascade lasers. <i>Optics Express</i> , 2015 , 23, 4012-20	3.3	3
183	Phase-locked arrays of surface-emitting graded-photonic-heterostructure terahertz semiconductor lasers. <i>Optics Express</i> , 2015 , 23, 6915-23	3.3	12
182	Three-dimensional terahertz imaging using swept-frequency feedback interferometry with a quantum cascade laser. <i>Optics Letters</i> , 2015 , 40, 994-7	3	25

181	Integrated Terahertz Graphene Modulator with 100% Modulation Depth. <i>ACS Photonics</i> , 2015 , 2, 1559-1566	15.6	124
180	Patch antenna terahertz photodetectors. <i>Applied Physics Letters</i> , 2015 , 106, 161102	3.4	45
179	Tuning a microcavity-coupled terahertz laser. <i>Applied Physics Letters</i> , 2015 , 107, 261108	3.4	20
178	Excitation, detection, and electrostatic manipulation of terahertz-frequency range plasmons in a two-dimensional electron system. <i>Scientific Reports</i> , 2015 , 5, 15420	4.9	18
177	Efficient prediction of terahertz quantum cascade laser dynamics from steady-state simulations. <i>Applied Physics Letters</i> , 2015 , 106, 161105	3.4	24
176	Generating ultrafast pulses of light from quantum cascade lasers. <i>Optica</i> , 2015 , 2, 944	8.6	36
175	Phase locking of a 2.5 THz quantum cascade laser to a microwave reference using THz Schottky mixer 2015 ,		3
174	Observation of time-resolved gain dynamics in a terahertz quantum cascade laser 2015 ,		1
173	Distributed feedback terahertz frequency quantum cascade lasers with dual periodicity gratings. <i>Applied Physics Letters</i> , 2015 , 106, 011103	3.4	15
172	Surface-emitting terahertz quantum cascade lasers with continuous-wave power in the tens of milliwatt range. <i>Applied Physics Letters</i> , 2014 , 104, 091112	3.4	24
171	Coupled-cavity terahertz quantum cascade lasers for single mode operation. <i>Applied Physics Letters</i> , 2014 , 104, 241102	3.4	26
170	Improving the dielectric properties of ethylene-glycol alkanethiol self-assembled monolayers. <i>Langmuir</i> , 2014 , 30, 1321-6	4	19
169	Directed assembly of 3-nm-long RecA nucleoprotein filaments on double-stranded DNA with nanometer resolution. <i>ACS Nano</i> , 2014 , 8, 3322-30	16.7	11
168	THz quantum cascade lasers operating on the radiative modes of a 2D photonic crystal. <i>Optics Letters</i> , 2014 , 39, 3962-5	3	18
167	Planar integrated metasurfaces for highly-collimated terahertz quantum cascade lasers. <i>Scientific Reports</i> , 2014 , 4, 7083	4.9	9
166	Label-free electrochemical biosensors for clinical diagnostic 2014 ,		2
165	Mapping the distribution of photo-currents responsible for generation of terahertz pulses at semiconductor surfaces 2014 ,		2
164	THz QCL self-mixing interferometry for biomedical applications 2014 ,		1

163	High-contrast coherent terahertz imaging of porcine tissue via swept-frequency feedback interferometry. <i>Biomedical Optics Express</i> , 2014 , 5, 3981-9	3.5	26
162	Discrete Vernier tuning in terahertz quantum cascade lasers using coupled cavities. <i>Optics Express</i> , 2014 , 22, 16595-605	3.3	24
161	Terahertz inverse synthetic aperture radar imaging using self-mixing interferometry with a quantum cascade laser. <i>Optics Letters</i> , 2014 , 39, 2629-32	3	23
160	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	11.5	21
159	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	3.4	4
158	Surface acoustic wave generation and detection using graphene interdigitated transducers on lithium niobate. <i>Applied Physics Letters</i> , 2014 , 104, 083509	3.4	20
157	Photonic quasi-crystal terahertz lasers. <i>Nature Communications</i> , 2014 , 5, 5884	17.4	47
156	Terahertz imaging using quantum cascade lasers—review of systems and applications. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 374008	3	111
155	Non-universality of scaling exponents in quantum Hall transitions. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 475801	1.8	4
154	Probing temperature- and solvent-dependent protein dynamics using terahertz time-domain spectroscopy. <i>Journal of Applied Crystallography</i> , 2014 , 47, 146-153	3.8	2
153	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, 061120	3.4	5
152	On-chip terahertz spectroscopic techniques for measuring mesoscopic quantum systems. <i>Review of Scientific Instruments</i> , 2013 , 84, 085101	1.7	8
151	Transient Analysis of THz-QCL Pulses Using NbN and YBCO Superconducting Detectors. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 172-179	3.4	10
150	LOCUS: Low cost upper atmosphere sounder 2013 ,		1
149	2013 ,		1
148	Spectroscopy of polycrystalline materials using thinned-substrate planar Goubau line at cryogenic temperatures. <i>Lab on A Chip</i> , 2013 , 13, 4065-70	7.2	17
147	Fabrication and characterization of gold nano-wires templated on virus-like arrays of tobacco mosaic virus coat proteins. <i>Nanotechnology</i> , 2013 , 24, 025605	3.4	43
146	Terahertz quantum cascade lasers with thin resonant-phonon depopulation active regions and surface-plasmon waveguides. <i>Journal of Applied Physics</i> , 2013 , 113, 113110	2.5	13

145	Laser-seeding dynamics with few-cycle pulses: Maxwell-Bloch finite-difference time-domain simulations of terahertz quantum cascade lasers. <i>Physical Review A</i> , 2013 , 87,	2.6	20
144	High order sideband generation in terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2013 , 102, 221101	3.4	9
143	Self-mixing effect in THz quantum cascade lasers: Applications in sensing and imaging 2013 ,		1
142	Effect of molecular size and particle shape on the terahertz absorption of a homologous series of tetraalkylammonium salts. <i>Analytical Chemistry</i> , 2013 , 85, 7926-34	7.8	10
141	Swept-frequency feedback interferometry using terahertz frequency QCLs: a method for imaging and materials analysis. <i>Optics Express</i> , 2013 , 21, 22194-205	3.3	62
140	Detection of terahertz frequency radiation via the photothermoelastic response of zincblende crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 3151	1.7	
139	Coherent terahertz photonics. <i>Optics Express</i> , 2013 , 21, 22988-3000	3.3	51
138	Low divergence single-mode surface-emitting concentric-circular-grating terahertz quantum cascade lasers. <i>Optics Express</i> , 2013 , 21, 31872-82	3.3	14
137	Mode-locked terahertz quantum cascade laser by direct phase synchronization 2013 ,		1
136	Coherent three-dimensional terahertz imaging through self-mixing in a quantum cascade laser. <i>Applied Physics Letters</i> , 2013 , 103, 181112	3.4	38
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