

A Giles Davies

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306
papers

10,508
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47
h-index

93
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447
ext. papers

12,857
ext. citations

5.4
avg, IF

5.74
L-index

#	Paper	IF	Citations
306	Terahertz semiconductor-heterostructure laser. <i>Nature</i> , 2002 , 417, 156-9	50.4	1932
305	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 043001	3	724
304	Terahertz spectroscopy of explosives and drugs. <i>Materials Today</i> , 2008 , 11, 18-26	21.8	326
303	Electrically pumped photonic-crystal terahertz lasers controlled by boundary conditions. <i>Nature</i> , 2009 , 457, 174-8	50.4	244
302	Simulation of terahertz generation at semiconductor surfaces. <i>Physical Review B</i> , 2002 , 65,	3.3	238
301	Designer spoof surface plasmon structures collimate terahertz laser beams. <i>Nature Materials</i> , 2010 , 9, 730-5	27	212
300	Terahertz quantum cascade lasers with copper metal-metal waveguides operating up to 178 K. <i>Optics Express</i> , 2008 , 16, 3242-8	3.3	171
299	Electrically pumped topological laser with valley edge modes. <i>Nature</i> , 2020 , 578, 246-250	50.4	151
298	Ultrabroadband terahertz radiation from low-temperature-grown GaAs photoconductive emitters. <i>Applied Physics Letters</i> , 2003 , 83, 3117-3119	3.4	141
297	Temperature-dependent low-frequency vibrational spectra of purine and adenine. <i>Applied Physics Letters</i> , 2003 , 82, 2350-2352	3.4	134
296	Coherent sampling of active mode-locked terahertz quantum cascade lasers and frequency synthesis. <i>Nature Photonics</i> , 2011 , 5, 306-313	33.9	132
295	Integrated Terahertz Graphene Modulator with 100% Modulation Depth. <i>ACS Photonics</i> , 2015 , 2, 1559-1566	16.6	124
294	Room-temperature nine- μ m-wavelength photodetectors and GHz-frequency heterodyne receivers. <i>Nature</i> , 2018 , 556, 85-88	50.4	124
293	Generation and detection of ultrabroadband terahertz radiation using photoconductive emitters and receivers. <i>Applied Physics Letters</i> , 2004 , 85, 164-166	3.4	122
292	Terahertz imaging using quantum cascade lasers—review of systems and applications. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 374008	3	111
291	High resistivity annealed low-temperature GaAs with 100 fs lifetimes. <i>Applied Physics Letters</i> , 2003 , 83, 4199-4201	3.4	110
290	Terahertz imaging through self-mixing in a quantum cascade laser. <i>Optics Letters</i> , 2011 , 36, 2587-9	3	108

289	Surface emitting terahertz quantum cascade laser with a double-metal waveguide. <i>Optics Express</i> , 2006 , 14, 11672-80	3.3	101
288	Efficient power extraction in surface-emitting semiconductor lasers using graded photonic heterostructures. <i>Nature Communications</i> , 2012 , 3, 952	17.4	96
287	High-Temperature Operation of Terahertz Quantum Cascade Laser Sources. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009 , 15, 952-967	3.8	93
286	Linewidth and tuning characteristics of terahertz quantum cascade lasers. <i>Optics Letters</i> , 2004 , 29, 575-73		92
285	The development of terahertz sources and their applications. <i>Physics in Medicine and Biology</i> , 2002 , 47, 3679-89	3.8	90
284	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
283	Magneto-optical probe of two-dimensional electron liquid and solid phases. <i>Physical Review B</i> , 1992 , 46, 7957-7960	3.3	82
282	Terahertz time-domain spectroscopy of glucose and uric Acid. <i>Journal of Biological Physics</i> , 2003 , 29, 117-21	1.6	79
281	Enhanced coherent terahertz emission from indium arsenide in the presence of a magnetic field. <i>Applied Physics Letters</i> , 2000 , 76, 2038-2040	3.4	79
280	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
279	Far-infrared spectroscopic characterization of explosives for security applications using broadband terahertz time-domain spectroscopy. <i>Applied Spectroscopy</i> , 2007 , 61, 638-43	3.1	77
278	Alignment of particles in microfluidic systems using standing surface acoustic waves. <i>Applied Physics Letters</i> , 2008 , 92, 044104	3.4	76
277	Terahertz saturable absorbers from liquid phase exfoliation of graphite. <i>Nature Communications</i> , 2017 , 8, 15763	17.4	69
276	The use of Fourier-transform infrared spectroscopy for the quantitative determination of glucose concentration in whole blood. <i>Physics in Medicine and Biology</i> , 2003 , 48, 2023-32	3.8	66
275	Controlled wave-function mixing in strongly coupled one-dimensional wires. <i>Physical Review B</i> , 1999 , 59, 12252-12255	3.3	66
274	Acoustically induced current flow in graphene. <i>Applied Physics Letters</i> , 2012 , 100, 133105	3.4	62
273	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
272	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, 054101	3.4	58

271	Terahertz Transmission Spectroscopy of Nonpolar Materials and Relationship with Composition and Properties. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2005 , 26, 55-64		56
270	Broadband terahertz time-domain spectroscopy of drugs-of-abuse and the use of principal component analysis. <i>Analyst, The</i> , 2009 , 134, 1658-68	5	55
269	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	3-4	53
268	Evolution of fractal patterns during a classical-quantum transition. <i>Physical Review Letters</i> , 2001 , 87, 036802	7-4	53
267	Coherent terahertz photonics. <i>Optics Express</i> , 2013 , 21, 22988-3000	3-3	51
266	Single-mode operation of terahertz quantum cascade lasers with distributed feedback resonators. <i>Applied Physics Letters</i> , 2004 , 84, 5446-5448	3-4	51
265	Terahertz pulsed imaging with 1.06 μm laser excitation. <i>Applied Physics Letters</i> , 2003 , 83, 4113-4115	3-4	51
264	Surface-immobilized peptide aptamers as probe molecules for protein detection. <i>Analytical Chemistry</i> , 2008 , 80, 978-83	7-8	50
263	Terahertz quantum-cascade lasers based on an interlaced photon-phonon cascade. <i>Applied Physics Letters</i> , 2004 , 84, 1266-1268	3-4	48
262	High-performance continuous-wave operation of superlattice terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , 2003 , 82, 1518-1520	3-4	48
261	Photonic quasi-crystal terahertz lasers. <i>Nature Communications</i> , 2014 , 5, 5884	17-4	47
260	Demonstration of a self-mixing displacement sensor based on terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2011 , 99, 081108	3-4	47
259	Selective dielectrophoretic manipulation of surface-immobilized DNA molecules. <i>Nanotechnology</i> , 2003 , 14, 896-902	3-4	47
258	Terahertz amplifier based on gain switching in a quantum cascade laser. <i>Nature Photonics</i> , 2009 , 3, 715-719	3-3	46
257	Patch antenna terahertz photodetectors. <i>Applied Physics Letters</i> , 2015 , 106, 161102	3-4	45
256	Fully phase-stabilized quantum cascade laser frequency comb. <i>Nature Communications</i> , 2019 , 10, 2938	17-4	43
255	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
254	Graded photonic crystal terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2010 , 96, 031104	3-4	42

253	Theory of magnetic-field enhancement of surface-field terahertz emission. <i>Journal of Applied Physics</i> , 2002 , 91, 2104-2106	2.5	42
252	Hybridization of single- and double-layer behavior in a double-quantum-well structure. <i>Physical Review B</i> , 1996 , 54, R17331-R17334	3.3	42
251	Phase-resolved terahertz self-detection near-field microscopy. <i>Optics Express</i> , 2018 , 26, 18423-18435	3.3	41
250	Terahertz emission from metal-organic chemical vapor deposition grown Fe:InGaAs using 830 nm to 1.55 Th excitation. <i>Applied Physics Letters</i> , 2010 , 96, 194104	3.4	41
249	Terahertz vibrational absorption spectroscopy using microstrip-line waveguides. <i>Applied Physics Letters</i> , 2008 , 93, 182904	3.4	41
248	Excitation-density-dependent generation of broadband terahertz radiation in an asymmetrically excited photoconductive antenna. <i>Optics Letters</i> , 2007 , 32, 2297-9	3	41
247	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
246	Generation of high-power terahertz pulses in a prism. <i>Optics Letters</i> , 2002 , 27, 1935-7	3	40
245	Coherent three-dimensional terahertz imaging through self-mixing in a quantum cascade laser. <i>Applied Physics Letters</i> , 2013 , 103, 181112	3.4	38
244	Electrical protein detection in cell lysates using high-density peptide-aptamer microarrays. <i>Journal of Biology</i> , 2008 , 7, 3		38
243	Terahertz frequency range band-stop filters. <i>Applied Physics Letters</i> , 2005 , 86, 213503	3.4	38
242	Wide-ridge metal-metal terahertz quantum cascade lasers with high-order lateral mode suppression. <i>Applied Physics Letters</i> , 2008 , 92, 031106	3.4	37
241	Generating ultrafast pulses of light from quantum cascade lasers. <i>Optica</i> , 2015 , 2, 944	8.6	36
240	Characterization of Crystalline Phase-Transformations in Theophylline by Time-Domain Terahertz Spectroscopy. <i>Spectroscopy Letters</i> , 2006 , 39, 215-224	1.1	35
239	High-intensity interminiband terahertz emission from chirped superlattices. <i>Applied Physics Letters</i> , 2002 , 80, 1867-1869	3.4	34
238	The MBE growth and optimization of high performance terahertz frequency quantum cascade lasers. <i>Optics Express</i> , 2015 , 23, 2720-9	3.3	32
237	Simultaneous measurement of orthogonal components of polarization in a free-space propagating terahertz signal using electro-optic detection. <i>Applied Physics Letters</i> , 2011 , 98, 151104	3.4	32
236	The analysis of human cortical bone by terahertz time-domain spectroscopy. <i>Physics in Medicine and Biology</i> , 2005 , 50, 3211-9	3.8	32

235	Dual-frequency imaging using an electrically tunable terahertz quantum cascade laser. <i>Optics Express</i> , 2009 , 17, 20631-41	3.3	30
234	Terahertz generation from coherent optical phonons in a biased GaAs photoconductive emitter. <i>Physical Review B</i> , 2004 , 69,	3.3	30
233	Direct Selective Functionalization of Nanometer-Separated Gold Electrodes with DNA Oligonucleotides. <i>Langmuir</i> , 2003 , 19, 981-984	4	29
232	Resonant dipole antennas for continuous-wave terahertz photomixers. <i>Applied Physics Letters</i> , 2004 , 85, 1622-1624	3.4	29
231	Determination of Glucose Concentration in Whole Blood using Fourier-Transform Infrared Spectroscopy. <i>Journal of Biological Physics</i> , 2003 , 29, 129-33	1.6	28
230	Rapid cell separation with minimal manipulation for autologous cell therapies. <i>Scientific Reports</i> , 2017 , 7, 41872	4.9	27
229	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	3.4	27
228	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	2.3	27
227	Coupled-cavity terahertz quantum cascade lasers for single mode operation. <i>Applied Physics Letters</i> , 2014 , 104, 241102	3.4	26
226	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
225	Electrically tunable terahertz quantum-cascade laser with a heterogeneous active region. <i>Applied Physics Letters</i> , 2009 , 95, 181101	3.4	26
224	Calculation and measurement of terahertz active normal modes in crystalline PETN. <i>ChemPhysChem</i> , 2010 , 11, 368-78	3.2	26
223	Three-dimensional terahertz imaging using swept-frequency feedback interferometry with a quantum cascade laser. <i>Optics Letters</i> , 2015 , 40, 994-7	3	25
222	Predictable surface emission patterns in terahertz photonic-crystal quantum cascade lasers. <i>Optics Express</i> , 2009 , 17, 9491-502	3.3	25
221	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
220	Efficient prediction of terahertz quantum cascade laser dynamics from steady-state simulations. <i>Applied Physics Letters</i> , 2015 , 106, 161105	3.4	24
219	Discrete Vernier tuning in terahertz quantum cascade lasers using coupled cavities. <i>Optics Express</i> , 2014 , 22, 16595-605	3.3	24
218	Terahertz-frequency photoconductive detectors fabricated from metal-organic chemical vapor deposition-grown Fe-doped InGaAs. <i>Applied Physics Letters</i> , 2011 , 98, 121107	3.4	24

217	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
216	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
215	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
214	Continuous-wave highly-efficient low-divergence terahertz wire lasers. <i>Nature Communications</i> , 2018 , 9, 1122	17.4	22
213	Single-mode surface-emitting concentric-circular-grating terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2013 , 102, 031119	3.4	22
212	Terahertz pulsed spectroscopic imaging using optimized binary masks. <i>Applied Physics Letters</i> , 2009 , 95, 231112	3.4	22
211	Low-threshold quantum-cascade lasers at 3.5 THz ($\lambda = 85$ microm). <i>Optics Letters</i> , 2003 , 28, 810-2	3	22
210	Designer Multimode Localized Random Lasing in Amorphous Lattices at Terahertz Frequencies. <i>ACS Photonics</i> , 2016 , 3, 2453-2460	6.3	22
209	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
208	Acousto-microfluidics: Transporting microbubble and microparticle arrays in acoustic traps using surface acoustic waves. <i>Journal of Applied Physics</i> , 2012 , 111, 094911	2.5	21
207	Influence of alternating current electrokinetic forces and torque on the elongation of immobilized DNA. <i>Journal of Applied Physics</i> , 2005 , 97, 014702	2.5	21
206	Fractional quantum Hall effect in high-mobility two-dimensional hole gases in tilted magnetic fields. <i>Physical Review B</i> , 1991 , 44, 13128-13131	3.3	21
205	Coherent imaging using laser feedback interferometry with pulsed-mode terahertz quantum cascade lasers. <i>Optics Express</i> , 2019 , 27, 10221-10233	3.3	21
204	Frequency-tunable continuous-wave random lasers at terahertz frequencies. <i>Light: Science and Applications</i> , 2019 , 8, 43	16.7	20
203	On-chip picosecond pulse detection and generation using graphene photoconductive switches. <i>Nano Letters</i> , 2015 , 15, 1591-6	11.5	20
202	Tunable and compact dispersion compensation of broadband THz quantum cascade laser frequency combs. <i>Optics Express</i> , 2019 , 27, 20231-20240	3.3	20
201	Tuning a microcavity-coupled terahertz laser. <i>Applied Physics Letters</i> , 2015 , 107, 261108	3.4	20
200	Surface acoustic wave generation and detection using graphene interdigitated transducers on lithium niobate. <i>Applied Physics Letters</i> , 2014 , 104, 083509	3.4	20

199	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
198	Vertical subwavelength mode confinement in terahertz and mid-infrared quantum cascade lasers. <i>Applied Physics Letters</i> , 2011 , 98, 101101	3.4	20
197	Terahertz ambipolar dual-wavelength quantum cascade laser. <i>Optics Express</i> , 2009 , 17, 19926-32	3.3	20
196	Ultrastrong Light-Matter Coupling in Deeply Subwavelength THz LC Resonators. <i>ACS Photonics</i> , 2019 , 6, 1207-1215	6.3	19
195	Antibody mimetic receptor proteins for label-free biosensors. <i>Analyst, The</i> , 2015 , 140, 803-10	5	19
194	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
193	Improving the dielectric properties of ethylene-glycol alkanethiol self-assembled monolayers. <i>Langmuir</i> , 2014 , 30, 1321-6	4	19
192	Mode-locking of a terahertz laser by direct phase synchronization. <i>Optics Express</i> , 2012 , 20, 20855-62	3.3	19
191	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
190	Long-wavelength infrared photovoltaic heterodyne receivers using patch-antenna quantum cascade detectors. <i>Applied Physics Letters</i> , 2020 , 116, 161101	3.4	18
189	Gain recovery time in a terahertz quantum cascade laser. <i>Applied Physics Letters</i> , 2016 , 108, 081104	3.4	18
188	THz quantum cascade lasers operating on the radiative modes of a 2D photonic crystal. <i>Optics Letters</i> , 2014 , 39, 3962-5	3	18
187	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
186	Monolithic Semiconductor Lasers with Dynamically Tunable Linear-to-Circular Polarization. <i>ACS Photonics</i> , 2017 , 4, 517-524	6.3	17
185	Quantum cascade laser based hybrid dual comb spectrometer. <i>Communications Physics</i> , 2020 , 3,	5.4	17
184	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
183	Optimized surface-emitting photonic-crystal terahertz quantum cascade lasers with reduced resonator dimensions. <i>Applied Physics Letters</i> , 2010 , 97, 131101	3.4	17
182	Terahertz time domain spectroscopy of phonon-depopulation based quantum cascade lasers. <i>Applied Physics Letters</i> , 2009 , 94, 251108	3.4	17

181	Establishment of the ac electrokinetic elongation mechanism of DNA by three-dimensional fluorescent imaging. <i>Applied Physics Letters</i> , 2006 , 88, 153901	3.4	17
180	Broadband terahertz time-domain and Raman spectroscopy of explosives 2007 , 6549, 40		17
179	Emission of collimated THz pulses from photo-excited semiconductors. <i>Semiconductor Science and Technology</i> , 2004 , 19, S449-S451	1.8	17
178	Terahertz master-oscillator power-amplifier quantum cascade lasers. <i>Applied Physics Letters</i> , 2016 , 109, 231105	3.4	17
177	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
176	On-chip terahertz Goubau-line waveguides with integrated photoconductive emitters and mode-discriminating detectors. <i>Applied Physics Letters</i> , 2009 , 95, 092903	3.4	16
175	Terahertz evanescent field microscopy of dielectric materials using on-chip waveguides. <i>Applied Physics Letters</i> , 2008 , 92, 032903	3.4	16
174	On-chip pulsed terahertz systems and their applications. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2007 , 27, 557-569		16
173	The growth and measurement of terahertz quantum cascade lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1859-1861	3	16
172	Millimeter wave photonics with terahertz semiconductor lasers. <i>Nature Communications</i> , 2021 , 12, 1427	17.4	16
171	Measurement of the emission spectrum of a semiconductor laser using laser-feedback interferometry. <i>Scientific Reports</i> , 2017 , 7, 7236	4.9	15
170	On-Chip Terahertz-Frequency Measurements of Liquids. <i>Analytical Chemistry</i> , 2017 , 89, 7981-7987	7.8	15
169	Injection locking of a terahertz quantum cascade laser to a telecommunications wavelength frequency comb. <i>Optica</i> , 2017 , 4, 1059	8.6	15
168	Ultrafast terahertz detectors based on three-dimensional meta-atoms. <i>Optica</i> , 2017 , 4, 1451	8.6	15
167	Distributed feedback terahertz frequency quantum cascade lasers with dual periodicity gratings. <i>Applied Physics Letters</i> , 2015 , 106, 011103	3.4	15
166	Multiple-frequency terahertz pulsed sensing of dielectric films. <i>Applied Physics Letters</i> , 2006 , 88, 071112	3.4	15
165	Influence of the thiol position on the attachment and subsequent hybridization of thiolated DNA on gold surfaces. <i>Langmuir</i> , 2004 , 20, 1527-30	4	15
164	Model for a pulsed terahertz quantum cascade laser under optical feedback. <i>Optics Express</i> , 2016 , 24, 20554-70	3.3	15

163	High-speed modulation of a terahertz quantum cascade laser by coherent acoustic phonon pulses. <i>Nature Communications</i> , 2020 , 11, 835	17.4	14
162	Low divergence single-mode surface-emitting concentric-circular-grating terahertz quantum cascade lasers. <i>Optics Express</i> , 2013 , 21, 31872-82	3.3	14
161	Measuring the sampling coherence of a terahertz quantum cascade laser. <i>Optics Express</i> , 2012 , 20, 16662-3	3.3	14
160	Generation of Bessel beams using a terahertz quantum cascade laser. <i>Optics Letters</i> , 2009 , 34, 1030-2	3	14
159	Effect of transverse mode structure on the far field pattern of metal-metal terahertz quantum cascade lasers. <i>Journal of Applied Physics</i> , 2008 , 104, 124513	2.5	14
158	High-sensitivity colorimetric detection of DNA hybridization on a gold surface with high spatial resolution. <i>Nanotechnology</i> , 2003 , 14, 7-10	3.4	14
157	Three key questions on fractal conductance fluctuations: Dynamics, quantization, and coherence. <i>Physical Review B</i> , 2004 , 70,	3.3	14
156	Silver-based surface plasmon waveguide for terahertz quantum cascade lasers. <i>Optics Express</i> , 2018 , 26, 3814-3827	3.3	13
155	Two-Dimensional Multimode Terahertz Random Lasing with Metal Pillars. <i>ACS Photonics</i> , 2018 , 5, 2928-2935	3.5	13
154	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
153	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
152	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
151	Applying broadband terahertz time-domain spectroscopy to the analysis of crystalline proteins: a dehydration study. <i>Journal of Applied Crystallography</i> , 2011 , 44, 129-133	3.8	13
150	On-chip photoconductive excitation and detection of pulsed terahertz radiation at cryogenic temperatures. <i>Applied Physics Letters</i> , 2006 , 88, 142103	3.4	13
149	Terahertz quantum cascade lasers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 215-29; discussion 229-31	3	13
148	Effects of magnetic field and optical fluence on terahertz emission in gallium arsenide. <i>Physical Review B</i> , 2001 , 64,	3.3	13
147	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
146	Diffraction-limited ultrabroadband terahertz spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 24811	4.9	13

145	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
144	Phase-locked arrays of surface-emitting graded-photonic-heterostructure terahertz semiconductor lasers. <i>Optics Express</i> , 2015 , 23, 6915-23	3.3	12
143	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
142	Dependence of fractal conductance fluctuations on soft-wall profile in a double-layer semiconductor billiard. <i>Applied Physics Letters</i> , 2002 , 80, 4381-4383	3.4	12
141	Tunable broadband terahertz polarizer using graphene-metal hybrid metasurface. <i>Optics Express</i> , 2019 , 27, 33768-33778	3.3	12
140	Ultrafast switch-on dynamics of frequency-tuneable semiconductor lasers. <i>Nature Communications</i> , 2018 , 9, 3076	17.4	11
139	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
138	Redox-induced conformational change in mercaptoalkanoic acid multilayer films. <i>Langmuir</i> , 2012 , 28, 6632-7	4	11
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