

Edmund H Linfield

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.

452
papers

14,929
citations

55
h-index

107
g-index

616
ext. papers

17,812
ext. citations

4.8
avg. IF

5.99
L-index

#	Paper	IF	Citations
452	10 Gbit s ⁻¹ Free Space Data Transmission at 9 μm Wavelength With Unipolar Quantum Optoelectronics. <i>Laser and Photonics Reviews</i> , 2022 , 16, 2100414	8.3	3
451	A Nanus ² Double sided mid-IR photodetector based on a MIM architecture. <i>Applied Physics Letters</i> , 2021 , 119, 181102	3.4	1
450	Millimeter wave photonics with terahertz semiconductor lasers. <i>Nature Communications</i> , 2021 , 12, 1427	17.4	16
449	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
448	Femtosecond Broadband Frequency Switch of Terahertz Three-Dimensional Meta-Atoms. <i>ACS Photonics</i> , 2021 , 8, 1097-1102	6.3	2
447	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
446	Chip-Scale Terahertz Frequency Combs through Integrated Intersubband Polariton Bleaching. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000575	8.3	3
445	Coherent terahertz microscopy of modal field distributions in micro-resonators. <i>APL Photonics</i> , 2021 , 6, 066104	5.2	3
444	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	
443	Monolithic Patch-Antenna THz Lasers with Extremely Low Beam Divergence and Polarization Control. <i>ACS Photonics</i> , 2021 , 8, 412-417	6.3	4
442	Observation of optical feedback dynamics in single-mode terahertz quantum cascade lasers: Transient instabilities. <i>Physical Review A</i> , 2021 , 103,	2.6	8
441	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
440	Terahertz imaging with self-pulsations in quantum cascade lasers under optical feedback. <i>APL Photonics</i> , 2021 , 6, 091301	5.2	2
439	Field-resolved high-order sub-cycle nonlinearities in a terahertz semiconductor laser.. <i>Light: Science and Applications</i> , 2021 , 10, 246	16.7	1
438	Quantum cascade laser based hybrid dual comb spectrometer. <i>Communications Physics</i> , 2020 , 3,	5.4	17
437	Absorption Engineering in an Ultrasubwavelength Quantum System. <i>Nano Letters</i> , 2020 , 20, 4430-4436	11.5	9
436	Programmable, Transform-Limited Pulses from a Terahertz Quantum Cascade Laser. <i>ACS Photonics</i> , 2020 , 7, 2423-2428	6.3	

435	Spin-valve Josephson junctions with perpendicular magnetic anisotropy for cryogenic memory. <i>Applied Physics Letters</i> , 2020 , 116, 022601	3.4	8
434	Wideband Electrically Controlled Vernier Frequency Tunable Terahertz Quantum Cascade Laser. <i>ACS Photonics</i> , 2020 , 7, 765-773	6.3	5
433	Diameter-independent skyrmion Hall angle observed in chiral magnetic multilayers. <i>Nature Communications</i> , 2020 , 11, 428	17.4	36
432	High-speed modulation of a terahertz quantum cascade laser by coherent acoustic phonon pulses. <i>Nature Communications</i> , 2020 , 11, 835	17.4	14
431	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
430	Long-wavelength infrared photovoltaic heterodyne receivers using patch-antenna quantum cascade detectors. <i>Applied Physics Letters</i> , 2020 , 116, 161101	3.4	18
429	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
428	Increasing the sensitivity of terahertz metamaterials for dielectric sensing by substrate etching 2020 ,		1
427	Terahertz photonic integrated circuit for frequency tuning and power modulation. <i>Optics Express</i> , 2020 , 28, 4374-4386	3.3	3
426	Photoconductive arrays on insulating substrates for high-field terahertz generation. <i>Optics Express</i> , 2020 , 28, 17219-17231	3.3	6
425	Exact frequency and phase control of a terahertz laser. <i>Optica</i> , 2020 , 7, 1143	8.6	1
424	Quasi-static and propagating modes in three-dimensional THz circuits. <i>Optics Express</i> , 2020 , 28, 16982-16995	3.3	5
423	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
422	High temperature metamaterial terahertz quantum detector. <i>Applied Physics Letters</i> , 2020 , 117, 251102	3.4	11
421	Mixing Properties of Room Temperature Patch-Antenna Receivers in a Mid-Infrared (110 μm) Heterodyne System. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900207	8.3	5
420	Terahertz master-oscillator power-amplifier quantum Cascade laser with controllable polarization. <i>Applied Physics Letters</i> , 2020 , 117, 021103	3.4	1
419	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
418	Ultrafast terahertz saturable absorbers using tailored intersubband polaritons. <i>Nature Communications</i> , 2020 , 11, 4290	17.4	7

4 ¹⁷	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
4 ¹⁶	External cavity terahertz quantum cascade laser with a metamaterial/graphene optoelectronic mirror. <i>Applied Physics Letters</i> , 2020 , 117, 041105	3.4	5
4 ¹⁵	Giant optical nonlinearity interferences in quantum structures. <i>Science Advances</i> , 2019 , 5, eaaw7554	14.3	6
4 ¹⁴	Waveguide-integrated THz Quantum-Cascade Lasers for Atmospheric-Research Satellite Payloads 2019 ,		1
4 ¹³	Toward Chirality-Encoded Domain Wall Logic. <i>Advanced Functional Materials</i> , 2019 , 29, 1807282	15.6	16
4 ¹²	Frequency-tunable continuous-wave random lasers at terahertz frequencies. <i>Light: Science and Applications</i> , 2019 , 8, 43	16.7	20
4 ¹¹	. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019 , 9, 221-236	3.4	6
4 ¹⁰	Full-wave modelling of terahertz frequency plasmons in two-dimensional electron systems. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 215101	3	2
4 ⁰⁹	Ultrastrong Light-Matter Coupling in Deeply Subwavelength THz LC Resonators. <i>ACS Photonics</i> , 2019 , 6, 1207-1215	6.3	19
4 ⁰⁸	Reduced Dark Current With a Specific Detectivity Advantage in Extended Threshold Wavelength Infrared Detector 2019 , 3, 1-4		1
4 ⁰⁷	Tunable and compact dispersion compensation of broadband THz quantum cascade laser frequency combs. <i>Optics Express</i> , 2019 , 27, 20231-20240	3.3	20
4 ⁰⁶	Fully phase-stabilized quantum cascade laser frequency comb. <i>Nature Communications</i> , 2019 , 10, 2938	17.4	43
4 ⁰⁵	Heisenberg pseudo-exchange and emergent anisotropies in field-driven pinwheel artificial spin ice. <i>Physical Review B</i> , 2019 , 100,	3.3	11
4 ⁰⁴	Fully Phase Stabilized Quantum Cascade Laser Frequency Comb 2019 ,		1
4 ⁰³	Ultrafast two-dimensional field spectroscopy of terahertz intersubband saturable absorbers. <i>Optics Express</i> , 2019 , 27, 2248-2257	3.3	6
4 ⁰²	Coherent imaging using laser feedback interferometry with pulsed-mode terahertz quantum cascade lasers. <i>Optics Express</i> , 2019 , 27, 10221-10233	3.3	21
4 ⁰¹	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
4 ⁰⁰	Tunable broadband terahertz polarizer using graphene-metal hybrid metasurface. <i>Optics Express</i> , 2019 , 27, 33768-33778	3.3	12

399	Detection sensitivity of laser feedback interferometry using a terahertz quantum cascade laser. <i>Optics Letters</i> , 2019 , 44, 3314-3317	3	8
398	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
397	Magnetization dynamics of weakly interacting sub-100 nm square artificial spin ices. <i>Scientific Reports</i> , 2019 , 9, 19967	4.9	5
396	Thermally and field-driven mobility of emergent magnetic charges in square artificial spin ice. <i>Scientific Reports</i> , 2019 , 9, 15989	4.9	10
395	Patch Antenna Microcavities THz Quantum Cascade Lasers 2019 ,		1
394	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
393	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
392	Superferromagnetism and Domain-Wall Topologies in Artificial "Pinwheel" Spin Ice. <i>ACS Nano</i> , 2019 , 13, 2213-2222	16.7	19
391	Generalized Fano lineshapes reveal exceptional points in photonic molecules. <i>Nature Communications</i> , 2018 , 9, 396	17.4	23
390	Confinement of picosecond timescale current pulses by tapered coplanar waveguides. <i>Applied Physics Letters</i> , 2018 , 112, 181103	3.4	3
389	High-performance GaAs/AlAs superlattice electronic devices in oscillators at frequencies 100B20 GHz. <i>Applied Physics Letters</i> , 2018 , 112, 172103	3.4	9
388	Effect of FePd alloy composition on the dynamics of artificial spin ice. <i>Scientific Reports</i> , 2018 , 8, 4750	4.9	12
387	Room-temperature nine-µm-wavelength photodetectors and GHz-frequency heterodyne receivers. <i>Nature</i> , 2018 , 556, 85-88	50.4	124
386	Continuous-wave highly-efficient low-divergence terahertz wire lasers. <i>Nature Communications</i> , 2018 , 9, 1122	17.4	22
385	. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1646-1659	4.9	6
384	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
383	Silver-based surface plasmon waveguide for terahertz quantum cascade lasers. <i>Optics Express</i> , 2018 , 26, 3814-3827	3.3	13
382	Phase-resolved terahertz self-detection near-field microscopy. <i>Optics Express</i> , 2018 , 26, 18423-18435	3.3	41

381	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
380	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
379	Quantum photonic integrated circuits based on tunable dots and tunable cavities. <i>APL Photonics</i> , 2018 , 3, 106103	5.2	14
378	Analysis of Barrier Parameters on the Extended Threshold Wavelength of Infrared Detectors. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 1617-1620	2.2	2
377	Ultrafast switch-on dynamics of frequency-tuneable semiconductor lasers. <i>Nature Communications</i> , 2018 , 9, 3076	17.4	11
376	Gas spectroscopy through multimode self-mixing in a double-metal terahertz quantum cascade laser. <i>Optics Letters</i> , 2018 , 43, 5933-5936	3	5
375	Effects of Barrier Energy Offset and Gradient in Extended Wavelength Infrared Detectors 2018 , 2, 1-4		3
374	A high electron mobility phonotransistor. <i>Communications Physics</i> , 2018 , 1,	5.4	1
373	Discrete Hall resistivity contribution from Néel skyrmions in multilayer nanodiscs. <i>Nature Nanotechnology</i> , 2018 , 13, 1161-1166	28.7	54
372	Determining Ethanol Content of Liquid Solutions Using Laser Feedback Interferometry with a Terahertz Quantum Cascade Laser 2018 , 2, 1-4		6
371	Deconvolution of Rashba and Dresselhaus spin-orbit coupling by crystal axis dependent measurements of coupled InAs/GaSb quantum wells. <i>Physical Review B</i> , 2018 , 98,	3.3	1
370	Noise characterization of patch antenna THz photodetectors. <i>Applied Physics Letters</i> , 2018 , 113, 161105	3.4	8
369	Near-field speckle imaging of light localization in disordered photonic systems. <i>Applied Physics Letters</i> , 2017 , 110, 081102	3.4	6
368	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
367	Mid-infrared detection in p-GaAs/AlGaAs heterostructures with a current blocking barrier 2017 ,		1
366	Monolithic Semiconductor Lasers with Dynamically Tunable Linear-to-Circular Polarization. <i>ACS Photonics</i> , 2017 , 4, 517-524	6.3	17
365	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
364	Extended wavelength infrared photodetectors. <i>Optical Engineering</i> , 2017 , 56, 091605	1.1	8

363	. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2017 , 7, 360-367	3.4	8
362	Terahertz saturable absorbers from liquid phase exfoliation of graphite. <i>Nature Communications</i> , 2017 , 8, 15763	17.4	69
361	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
360	Thickness dependence of spin wave excitations in an artificial square spin ice-like geometry. <i>Journal of Applied Physics</i> , 2017 , 121, 103903	2.5	15
359	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
358	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 043001	13	724
357	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
356	Brillouin light scattering study of magnetic-element normal modes in a square artificial spin ice geometry. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 015003	3	19
355	Short Terahertz Pulse Generation from a Dispersion Compensated Modelocked Semiconductor Laser. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700013	8.3	40
354	Dark current and photoresponse characteristics of extended wavelength infrared photodetectors. <i>Journal of Applied Physics</i> , 2017 , 122, 024501	2.5	8
353	Measurement of the emission spectrum of a semiconductor laser using laser-feedback interferometry. <i>Scientific Reports</i> , 2017 , 7, 7236	4.9	15
352	On-Chip Terahertz-Frequency Measurements of Liquids. <i>Analytical Chemistry</i> , 2017 , 89, 7981-7987	7.8	15
351	Spin-orbit interaction in InAs/GaSb heterostructures quantified by weak antilocalization. <i>Physical Review B</i> , 2017 , 95,	3.3	11
350	Room-Temperature operation of a quantum well mid-infrared detector embedded in nano-antennae array at critical optical coupling 2017 ,		2
349	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
348	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
347	Terahertz generation mechanism in nano-grating electrode photomixers on Fe-doped InGaAsP. <i>Optics Express</i> , 2017 , 25, 10177-10188	3.3	2
346	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

345	Injection locking of a terahertz quantum cascade laser to a telecommunications wavelength frequency comb. <i>Optica</i> , 2017 , 4, 1059	8.6	15
344	Ultrafast terahertz detectors based on three-dimensional meta-atoms. <i>Optica</i> , 2017 , 4, 1451	8.6	15
343	5-ps-long terahertz pulses from an active-mode-locked quantum cascade laser. <i>Optica</i> , 2017 , 4, 168	8.6	20
342	Gain recovery time in a terahertz quantum cascade laser. <i>Applied Physics Letters</i> , 2016 , 108, 081104	3.4	18
341	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
340	Mid-infrared photodetectors operating over an extended wavelength range up to 90 K. <i>Optics Letters</i> , 2016 , 41, 285-8	3	3
339	Temperature-dependent modulated reflectance and photoluminescence of InAsGaAs and InAsInGaAsGaAs quantum dot heterostructures. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	1
338	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
337	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
336	Design of Broadband Non-Foster Circuits Based on Resonant Tunneling Diodes. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 1398-1401	3.8	16
335	Multimode, Aperiodic Terahertz Surface-Emitting Laser Resonators. <i>Photonics</i> , 2016 , 3, 32	2.2	10
334	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
333	Model for a pulsed terahertz quantum cascade laser under optical feedback. <i>Optics Express</i> , 2016 , 24, 20554-70	3.3	15
332	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
331	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
330	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
329	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
328	Room temperature strong light-matter coupling in three dimensional terahertz meta-atoms. <i>Applied Physics Letters</i> , 2016 , 108, 101101	3.4	11

327	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
326	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
325	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
324	Diffraction-limited ultrabroadband terahertz spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 24811	4.9	13
323	Effect of a current blocking barrier on a 28 μm p-GaAs/AlGaAs heterojunction infrared detector. <i>Applied Physics Letters</i> , 2016 , 108, 201105	3.4	3
322	Accurate parameter extraction from liquids measured using on-chip terahertz spectroscopy 2016 ,		1
321	Observation of spin-wave Doppler shift in Co90Fe10/Ru micro-strips for evaluating spin polarization. <i>Applied Physics Letters</i> , 2016 , 109, 112405	3.4	2
320	Patch antenna microcavity terahertz sources with enhanced emission. <i>Applied Physics Letters</i> , 2016 , 109, 141103	3.4	5
319	Terahertz master-oscillator power-amplifier quantum cascade lasers. <i>Applied Physics Letters</i> , 2016 , 109, 231105	3.4	17
318	Optical feedback effects on terahertz quantum cascade lasers: modelling and applications 2016 ,		1
317	Multilayer extraction of complex refractive index in broadband transmission terahertz time-domain spectroscopy 2016 ,		1
316	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
315	THz waveguide adapters for efficient radiation out-coupling from double metal THz QCLs. <i>Optics Express</i> , 2015 , 23, 5190-200	3.3	9
314	On-chip picosecond pulse detection and generation using graphene photoconductive switches. <i>Nano Letters</i> , 2015 , 15, 1591-6	11.5	20
313	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
312	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
311	Deep-subwavelength imaging of both electric and magnetic localized optical fields by plasmonic campanile nanoantenna. <i>Scientific Reports</i> , 2015 , 5, 9606	4.9	12
310	Tailoring the Photon Hopping by Nearest-Neighbor and Next-Nearest-Neighbor Interaction in Photonic Arrays. <i>ACS Photonics</i> , 2015 , 2, 565-571	6.3	15

309	The MBE growth and optimization of high performance terahertz frequency quantum cascade lasers. <i>Optics Express</i> , 2015 , 23, 2720-9	3.3	32
308	Optical sideband generation up to room temperature with mid-infrared quantum cascade lasers. <i>Optics Express</i> , 2015 , 23, 4012-20	3.3	3
307	Phase-locked arrays of surface-emitting graded-photon-heterostructure terahertz semiconductor lasers. <i>Optics Express</i> , 2015 , 23, 6915-23	3.3	12
306	Three-dimensional terahertz imaging using swept-frequency feedback interferometry with a quantum cascade laser. <i>Optics Letters</i> , 2015 , 40, 994-7	3	25
305	Integrated Terahertz Graphene Modulator with 100% Modulation Depth. <i>ACS Photonics</i> , 2015 , 2, 1559-1566	3.6	124
304	Patch antenna terahertz photodetectors. <i>Applied Physics Letters</i> , 2015 , 106, 161102	3.4	45
303	Ultra-subwavelength phase-sensitive Fano-imaging of localized photonic modes. <i>Light: Science and Applications</i> , 2015 , 4, e326-e326	16.7	26
302	Spin relaxation through Kondo scattering in Cu/Py lateral spin valves. <i>Physical Review B</i> , 2015 , 92,	3.3	17
301	Tuning a microcavity-coupled terahertz laser. <i>Applied Physics Letters</i> , 2015 , 107, 261108	3.4	20
300	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
299	Novel Molecular Resist for EUV and Electron Beam Lithography. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2015 , 28, 537-540	0.7	5
298	Fully tuneable, Purcell-enhanced solid-state quantum emitters. <i>Applied Physics Letters</i> , 2015 , 107, 141109	3.4	17
297	Ballistic rectification of vortex domain wall chirality at nanowire corners. <i>Applied Physics Letters</i> , 2015 , 107, 222403	3.4	11
296	Temperature-dependent modulated reflectance of InAs/InGaAs/GaAs quantum dots-in-a-well infrared photodetectors. <i>Journal of Applied Physics</i> , 2015 , 117, 144304	2.5	10
295	Efficient prediction of terahertz quantum cascade laser dynamics from steady-state simulations. <i>Applied Physics Letters</i> , 2015 , 106, 161105	3.4	24
294	Generating ultrafast pulses of light from quantum cascade lasers. <i>Optica</i> , 2015 , 2, 944	8.6	36
293	Observation of time-resolved gain dynamics in a terahertz quantum cascade laser 2015 ,		1
292	Design and performance of micro-rectenna arrays for thermal energy harvesting 2015 ,		1

291	Distributed feedback terahertz frequency quantum cascade lasers with dual periodicity gratings. <i>Applied Physics Letters</i> , 2015 , 106, 011103	3.4	15
290	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
289	Tunable hot-carrier photodetection beyond the bandgap spectral limit. <i>Nature Photonics</i> , 2014 , 8, 412-418	3.9	49
288	Wavelength-extended photovoltaic infrared photodetectors. <i>Applied Physics Letters</i> , 2014 , 104, 131101	3.4	6
287	Coupled-cavity terahertz quantum cascade lasers for single mode operation. <i>Applied Physics Letters</i> , 2014 , 104, 241102	3.4	26
286	THz quantum cascade lasers operating on the radiative modes of a 2D photonic crystal. <i>Optics Letters</i> , 2014 , 39, 3962-5	3	18
285	Planar integrated metasurfaces for highly-collimated terahertz quantum cascade lasers. <i>Scientific Reports</i> , 2014 , 4, 7083	4.9	9
284	Mapping the distribution of photo-currents responsible for generation of terahertz pulses at semiconductor surfaces 2014 ,		2
283	THz QCL self-mixing interferometry for biomedical applications 2014 ,		1
282	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
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