

# Gottfried Strasser

## 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.

494  
papers

8,742  
citations

43  
h-index

73  
g-index

705  
ext. papers

10,054  
ext. citations

3.3  
avg, IF

5.62  
L-index

#	Paper	IF	Citations
494	Broadband laser-based mid-infrared spectroscopy employing a quantum cascade detector for milk protein analysis. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 350, 130873	8.5	4
493	2.7 $\mu\text{m}$ quantum cascade detector: Above band gap energy intersubband detection. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 071104	3.4	1
492	Silicon integrated terahertz quantum cascade ring laser frequency comb. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 091106	3.4	0
491	Structure and mid-infrared optical properties of spin-coated polyethylene films developed for integrated photonics applications. <i>Optical Materials Express</i> , <b>2022</b> , 12, 2168	2.6	2
490	Landau level laser. <i>Nature Photonics</i> , <b>2021</b> , 15, 875-883	33.9	1
489	Terahertz Intersubband Electroluminescence from Nonpolar m-Plane ZnO Quantum Cascade Structures. <i>ACS Photonics</i> , <b>2021</b> , 8, 343-349	6.3	5
488	High-speed interband cascade infrared photodetectors: photo-response saturation by a femtosecond oscillator. <i>Optics Express</i> , <b>2021</b> , 29, 14087-14100	3.3	3
487	Comb operation in terahertz quantum cascade ring lasers. <i>Optica</i> , <b>2021</b> , 8, 780	8.6	6
486	Engineering the spectral bandwidth of quantum cascade laser frequency combs. <i>Optics Letters</i> , <b>2021</b> , 46, 3416-3419	3	7
485	High-speed quantum cascade detector characterized with a mid-infrared femtosecond oscillator. <i>Optics Express</i> , <b>2021</b> , 29, 5774-5781	3.3	15
484	Etching of m-plane Zn(Mg)O epitaxial films and its impact on surface leakage currents. <i>Semiconductor Science and Technology</i> , <b>2021</b> , 36, 035023	1.8	1
483	Deep learning control of THz QCLs. <i>Optics Express</i> , <b>2021</b> , 29, 23611-23621	3.3	2
482	Resonant tunneling diodes strongly coupled to the cavity field. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 221103	3.4	1
481	In-Phase and Anti-Phase Synchronization in a Laser Frequency Comb. <i>Physical Review Letters</i> , <b>2020</b> , 124, 023901	7.4	29
480	Singular charge fluctuations at a magnetic quantum critical point. <i>Science</i> , <b>2020</b> , 367, 285-288	33.3	21
479	Continuous-wave operation of vertically emitting ring interband cascade lasers at room temperature. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 131101	3.4	6
478	Terahertz optical machine learning for object recognition. <i>APL Photonics</i> , <b>2020</b> , 5, 126103	5.2	3

477	Mode-locked short pulses from an 8 <sup>th</sup> wavelength semiconductor laser. <i>Nature Communications</i> , <b>2020</b> , 11, 5788	17.4	14
476	All-optical adaptive control of quantum cascade random lasers. <i>Nature Communications</i> , <b>2020</b> , 11, 5530	17.4	8
475	Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-8	1.8	
474	Thermal-Dynamics Optimization of Terahertz Quantum Cascade Lasers with Different Barrier Compositions. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	3
473	Color switching of a terahertz quantum cascade laser. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 191104	3.4	4
472	Scattering strength dependence of terahertz random lasers. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 151611	1.5	1
471	Trap-Related Breakdown and Filamentary Conduction in Carbon Doped GaN. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1800527	1.3	7
470	High frequency modulation and (quasi) single-sideband emission of mid-infrared ring and ridge quantum cascade lasers. <i>Optics Express</i> , <b>2019</b> , 27, 14716-14724	3.3	7
469	Thermoelectric-cooled terahertz quantum cascade lasers. <i>Optics Express</i> , <b>2019</b> , 27, 20688-20693	3.3	22
468	Monolithic frequency comb platform based on interband cascade lasers and detectors. <i>Optica</i> , <b>2019</b> , 6, 890	8.6	34
467	Picosecond pulses from a mid-infrared interband cascade laser. <i>Optica</i> , <b>2019</b> , 6, 1334	8.6	26
466	Suppression of axial growth by boron incorporation in GaAs nanowires grown by self-catalyzed molecular beam epitaxy. <i>Nanotechnology</i> , <b>2019</b> , 30, 065602	3.4	1
465	High-frequency breakdown of the integer quantum Hall effect in GaAs/AlGaAs heterojunctions. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	4
464	Coherent injection locking of quantum cascade laser frequency combs. <i>Nature Photonics</i> , <b>2019</b> , 13, 101-104	10.9	59
463	Influence of Boron Antisite Defects on the Electrical Properties of MBE-Grown GaAs Nanowires. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1800368	1.3	2
462	THz Quantum Cascade Lasers <b>2018</b> , 597-624		1
461	Short infrared wavelength quantum cascade detectors based on m-plane ZnO/ZnMgO quantum wells. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 251104	3.4	14
460	Evaluation of Material Systems for THz Quantum Cascade Laser Active Regions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 216, 1800504	1.6	6

459	Barrier Height Tuning of Terahertz Quantum Cascade Lasers for High-Temperature Operation. <i>ACS Photonics</i> , <b>2018</b> , 5, 4687-4693	6.3	16
458	Large-signal modulation in distributed feedback quantum cascade lasers for coherent multiharmonic signal generation. <i>Optical and Quantum Electronics</i> , <b>2018</b> , 50, 1	2.4	0
457	Ring quantum cascade lasers with twisted wavefronts. <i>Scientific Reports</i> , <b>2018</b> , 8, 7998	4.9	6
456	Lithography-free positioned GaAs nanowire growth with focused ion beam implantation of Ga. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 011803	1.3	6
455	Incorporation of Sb and As in MBE grown GaAs <sub>x</sub> Sb <sub>1-x</sub> layers. <i>APL Materials</i> , <b>2017</b> , 5, 035501	5.7	10
454	High-Power Growth-Robust InGaAs/InAlAs Terahertz Quantum Cascade Lasers. <i>ACS Photonics</i> , <b>2017</b> , 4, 957-962	6.3	16
453	Watt-Level Continuous-Wave Emission from a Bifunctional Quantum Cascade Laser/Detector. <i>ACS Photonics</i> , <b>2017</b> , 4, 1225-1231	6.3	28
452	Growth rate dependence of boron incorporation into B <sub>x</sub> Ga <sub>1-x</sub> As layers. <i>Journal of Crystal Growth</i> , <b>2017</b> , 477, 77-81	1.6	10
451	Focused ion beam implantation for the nucleation of self-catalyzed III-V nanowires. <i>Microelectronic Engineering</i> , <b>2017</b> , 177, 93-97	2.5	5
450	Substrate-emitting ring interband cascade lasers. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 171101	3.4	5
449	Nanoscale engineering of photoelectron processes in quantum well and dot structures for sensing and energy conversion. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 906, 012026	0.3	
448	The limit of quantum cascade detectors: A single period device. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 061107	3.4	9
447	Schottky diode formation in GaAs nanowires by heterogeneous contact deposition. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 7101-7106	1.4	1
446	Influence of thickness on crystallinity in wafer-scale GaTe nanolayers grown by molecular beam epitaxy. <i>AIP Advances</i> , <b>2017</b> , 7, 035113	1.5	20
445	Surface emitting ring quantum cascade lasers for chemical sensing. <i>Optical Engineering</i> , <b>2017</b> , 57, 1	1.1	5
444	Application of a ring cavity surface emitting quantum cascade laser (RCSE-QCL) on the measurement of H <sub>2</sub> S in a CH <sub>4</sub> matrix for process analytics. <i>Optics Express</i> , <b>2016</b> , 24, 6572-85	3.3	10
443	Effect of barrier recess on transport and electrostatic interface properties of GaN-based normally-off and normally-on metal oxide semiconductor heterostructure field effect transistors. <i>Solid-State Electronics</i> , <b>2016</b> , 125, 118-124	1.7	5
442	Measurement of bound states in the continuum by a detector embedded in a photonic crystal. <i>Light: Science and Applications</i> , <b>2016</b> , 5, e16147	16.7	57

441	Remote Sensing with Commutable Monolithic Laser and Detector. <i>ACS Photonics</i> , <b>2016</b> , 3, 1794-1798	6.3	12
440	Mid-infrared surface transmitting and detecting quantum cascade device for gas-sensing. <i>Scientific Reports</i> , <b>2016</b> , 6, 21795	4.9	27
439	Ring quantum cascade lasers with grating phase shifts and a light collimating dielectric metamaterial for enhanced infrared spectroscopy. <i>Vibrational Spectroscopy</i> , <b>2016</b> , 84, 101-105	2.1	3
438	Normally-off GaN-HEMTs with p-type gate: Off-state degradation, forward gate stress and ESD failure. <i>Microelectronics Reliability</i> , <b>2016</b> , 58, 177-184	1.2	17
437	Enhanced Crystal Quality of Al <sub>x</sub> In <sub>1-x</sub> As <sub>y</sub> Sb <sub>1-y</sub> for Terahertz Quantum Cascade Lasers. <i>Photonics</i> , <b>2016</b> , 3, 20	2.2	6
436	Random lasers for broadband directional emission. <i>Optica</i> , <b>2016</b> , 3, 1035	8.6	61
435	Spectrally resolved far-fields of terahertz quantum cascade lasers. <i>Optics Express</i> , <b>2016</b> , 24, 25462-25470	3.3	2
434	InAs based terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 011109	3.4	30
433	Far-Infrared Quantum Cascade Lasers Operating in the AlAs Phonon Reststrahlen Band. <i>ACS Photonics</i> , <b>2016</b> , 3, 2280-2284	6.3	26
432	Advanced gas sensors based on substrate-integrated hollow waveguides and dual-color ring quantum cascade lasers. <i>Analyst, The</i> , <b>2016</b> , 141, 6202-6207	5	17
431	4.3 $\mu$ m quantum cascade detector in pixel configuration. <i>Optics Express</i> , <b>2016</b> , 24, 17041-9	3.3	25
430	Electroluminescence from GaAs/AlGaAs Heterostructures in Strong in-Plane Electric Fields: Evidence for k- and Real-Space Charge Transfer. <i>ACS Photonics</i> , <b>2015</b> , 2, 1155-1159	6.3	4
429	Metropolis Monte Carlo based Relaxation of Atomistic III-V Semiconductor Models. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 550-555	0.7	
428	High-Voltage Breakdown and the Gunn Effect in GaAs/AlGaAs Nanoconstrictions. <i>IEEE Nanotechnology Magazine</i> , <b>2015</b> , 14, 524-530	2.6	2
427	High temperature performances of normally-off p-GaN gate AlGaN/GaN HEMTs on SiC and Si substrates for power applications. <i>Microelectronics Reliability</i> , <b>2015</b> , 55, 1687-1691	1.2	17
426	From Photonic Crystal to Subwavelength Micropillar Array Terahertz Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2015</b> , 21, 780-791	3.8	6
425	Quantum cascade detector utilizing the diagonal-transition scheme for high quality cavities. <i>Optics Express</i> , <b>2015</b> , 23, 6283-91	3.3	11
424	Nanoimprinted superlattice metallic photonic crystal as ultrasensitive solar absorber. <i>Optica</i> , <b>2015</b> , 2, 743	8.6	28

423	Modeling small-signal response of GaN-based metal-insulator-semiconductor high electron mobility transistor gate stack in spill-over regime: Effect of barrier resistance and interface states. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 024506	2.5	35
422	Terahertz Dynamics of a Topologically Protected State: Quantum Hall Effect Plateaus near the Cyclotron Resonance of a Two-Dimensional Electron Gas. <i>Physical Review Letters</i> , <b>2015</b> , 115, 247401	7.4	6
421	The influence of whispering gallery modes on the far field of ring lasers. <i>Scientific Reports</i> , <b>2015</b> , 5, 16668	4.9	10
420	High performance bi-functional quantum cascade laser and detector. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 071104	3.4	17
419	Nucleation of Ga droplets on Si and SiOx surfaces. <i>Nanotechnology</i> , <b>2015</b> , 26, 315601	3.4	20
418	InAs/AlAsSb based quantum cascade detector. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 081107	3.4	28
417	E-mode AlGaIn/GaN True-MOS, with high-k ZrO2 gate insulator <b>2015</b> ,		1
416	Coupled cavity terahertz quantum cascade lasers with integrated emission monitoring. <i>Optics Express</i> , <b>2015</b> , 23, 3581-8	3.3	3
415	Monolithically integrated mid-infrared sensor using narrow mode operation and temperature feedback. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 041101	3.4	6
414	Resonant metamaterial detectors based on THz quantum-cascade structures. <i>Scientific Reports</i> , <b>2014</b> , 4, 4269	4.9	27
413	Reversing the pump dependence of a laser at an exceptional point. <i>Nature Communications</i> , <b>2014</b> , 5, 4034	17.4	312
412	. <i>IEEE Transactions on Electron Devices</i> , <b>2014</b> , 61, 3429-3434	2.9	27
411	Monolithically integrated mid-infrared lab-on-a-chip using plasmonics and quantum cascade structures. <i>Nature Communications</i> , <b>2014</b> , 5, 4085	17.4	117
410	All-Electrical Thermal Monitoring of Terahertz Quantum Cascade Lasers. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 1470-1473	2.2	3
409	InGaAs/GaAsSb based two-dimensional electron gases. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2014</b> , 32, 02C104	1.3	3
408	Characterizing intra-exciton Coulomb scattering in terahertz excitations. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 201109	3.4	2
407	Quantum cascade lasers with a tilted facet utilizing the inherent polarization purity. <i>Optics Express</i> , <b>2014</b> , 22, 26294-301	3.3	5
406	Subwavelength micropillar array terahertz lasers. <i>Optics Express</i> , <b>2014</b> , 22, 274-82	3.3	31

405	Time-resolved spectral characterization of ring cavity surface emitting and ridge-type distributed feedback quantum cascade lasers by step-scan FT-IR spectroscopy. <i>Optics Express</i> , <b>2014</b> , 22, 2656-64	3.3	16
404	Grating-based far field modifications of ring quantum cascade lasers. <i>Optics Express</i> , <b>2014</b> , 22, 15829-36	3.3	11
403	Fixed interface charges between AlGa <sub>N</sub> barrier and gate stack composed of in situ grown SiN and Al <sub>2</sub> O <sub>3</sub> in AlGa <sub>N</sub> /Ga <sub>N</sub> high electron mobility transistors with normally off capability. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 113502	3.4	33
402	On-chip focusing in the mid-infrared: Demonstrated with ring quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 151105	3.4	13
401	Magnetic control of Coulomb scattering and terahertz transitions among excitons. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	4
400	High-power, low-lateral divergence broad area quantum cascade lasers with a tilted front facet. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 051101	3.4	17
399	Diagonal-transition quantum cascade detector. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 091108	3.4	32
398	Plasmonic lens enhanced mid-infrared quantum cascade detector. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 171112	3.4	22
397	Resonant intersubband plasmon induced current in InGaAs quantum wells on GaAs. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 122101	3.4	
396	Linearly polarized light from substrate emitting ring cavity quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 081101	3.4	17
395	InGaAs/GaAsSb/InP terahertz quantum cascade lasers. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2013</b> , 34, 374-385	2.2	7
394	Modeling the elastic properties of the ternary III <sub>N</sub> V alloys InGaAs, InAlAs and GaAsSb using Tersoff potentials for binary compounds. <i>Semiconductor Science and Technology</i> , <b>2013</b> , 28, 085011	1.8	8
393	Tunable insulator-quantum Hall transition in a weakly interacting two-dimensional electron system. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 307	5	3
392	Current collapse reduction in InAlGa <sub>N</sub> /Ga <sub>N</sub> high electron mobility transistors by surface treatment of thermally stable ultrathin in situ SiN passivation. <i>Solid-State Electronics</i> , <b>2013</b> , 89, 207-211	1.7	9
391	Ultrastrong coupling of intersubband plasmons and terahertz metamaterials. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 201106	3.4	24
390	Statistics and localisation of vertical breakdown in AlGa <sub>N</sub> /Ga <sub>N</sub> HEMTs on SiC and Si substrates for power applications. <i>Microelectronics Reliability</i> , <b>2013</b> , 53, 1444-1449	1.2	10
389	Photonic crystal slab quantum cascade detector. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 241103	3.4	14
388	Terahertz Detection With Nanoscale Semiconductor Rectifiers. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 24-30	4	1

387	Influence of the facet type on the performance of terahertz quantum cascade lasers with double-metal waveguides. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 231121	3.4	16
386	Dopant migration effects in terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 201102	3.4	20
385	Probing scattering mechanisms with symmetric quantum cascade lasers. <i>Optics Express</i> , <b>2013</b> , 21, 7209-15	3.3	31
384	Enhanced light output power of quantum cascade lasers from a tilted front facet. <i>Optics Express</i> , <b>2013</b> , 21, 15869-77	3.3	9
383	Waveguide saturable absorbers at 1.55 $\mu\text{m}$ based on intraband transitions in GaN/AlN QDs. <i>Optics Express</i> , <b>2013</b> , 21, 27578-86	3.3	15
382	Towards nanowire-based terahertz quantum cascade lasers: prospects and technological challenges <b>2013</b> ,		3
381	Monolithically integrated mid-infrared quantum cascade laser and detector. <i>Sensors</i> , <b>2013</b> , 13, 2196-205	3.8	23
380	High power terahertz quantum cascade lasers with symmetric wafer bonded active regions. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 171113	3.4	65
379	Magnetic-field assisted performance of InGaAs/GaAsSb terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 051116	3.4	9
378	Atomistic modeling of bond lengths in random and ordered III-V alloys. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 123508	2.5	4
377	Influence of processing and annealing steps on electrical properties of InAlN/GaN high electron mobility transistor with Al <sub>2</sub> O <sub>3</sub> gate insulation and passivation. <i>Solid-State Electronics</i> , <b>2012</b> , 67, 74-78	1.7	14
376	Explanation of threshold voltage scaling in enhancement-mode InAlN/AlN/GaN metal oxide semiconductor high electron mobility transistors on Si substrates. <i>Thin Solid Films</i> , <b>2012</b> , 520, 6230-6232	2.2	16
375	Analyzing Imidazolium Bridging in Nanoparticle Networks Covalently Linked to Silicon Substrates. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 9343-9350	3.8	4
374	Superconducting Microdisk Cavities for THz Quantum Cascade Lasers. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2012</b> , 2, 550-555	3.4	3
373	Large Rashba effect in GaAsSb/InGaAs RTDs at high temperatures. <i>Journal of the Korean Physical Society</i> , <b>2012</b> , 60, 1762-1766	0.6	1
372	High performance InGaAs/GaAsSb terahertz quantum cascade lasers operating up to 142 K. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 211117	3.4	43
371	A bi-functional quantum cascade device for same-frequency lasing and detection. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 191109	3.4	30
370	Reliability investigation of the degradation of the surface passivation of InAlN/GaN HEMTs using a dual gate structure. <i>Microelectronics Reliability</i> , <b>2012</b> , 52, 1812-1815	1.2	9



369	Tuning the electro-optical properties of germanium nanowires by tensile strain. <i>Nano Letters</i> , <b>2012</b> , 12, 6230-4	11.5	104
368	Gas nitriding and subsequent oxidation of Ti-6Al-4V alloys. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 21	5	16
367	Microcavity-integrated graphene photodetector. <i>Nano Letters</i> , <b>2012</b> , 12, 2773-7	11.5	623
366	Free-carrier absorption in quantum cascade structures. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	27
365	Optimized photonic crystal design for quantum well infrared photodetectors <b>2012</b> ,		5
364	Insulator, semiclassical oscillations and quantum Hall liquids at low magnetic fields. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 405601	1.8	5
363	Extraordinary transmission in metal hole array-photonic crystal hybrid structures. <i>Optics Express</i> , <b>2012</b> , 20, 17174	3.3	7
362	THz quantum cascade lasers with wafer bonded active regions. <i>Optics Express</i> , <b>2012</b> , 20, 23832-7	3.3	6
361	Detectivity enhancement in quantum well infrared photodetectors utilizing a photonic crystal slab resonator. <i>Optics Express</i> , <b>2012</b> , 20, 5622-8	3.3	31
360	Random telegraph signal noise in gate current of unstressed and reverse-bias-stressed AlGaIn/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 143507	3.4	12
359	Sub-diffraction-limit semiconductor resonators operating on the fundamental magnetic resonance. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 131113	3.4	21
358	Polaritonic spectroscopy of intersubband transitions. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	17
357	Fano effect due to ponderomotive coupling in intersubband response of semiconductor quantum wells. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	1
356	Grating duty-cycle induced enhancement of substrate emission from ring cavity quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 191103	3.4	11
355	Buffer-Related Degradation Aspects of Single and Double-Heterostructure Quantum Well InAlN/GaN High-Electron-Mobility Transistors. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 054102	1.4	2
354	Asymmetrically Doped GaAs/AlGaAs Double-Quantum-Well Structure for Voltage-Tunable Infrared Detection. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 074004	1.4	4
353	Buffer-Related Degradation Aspects of Single and Double-Heterostructure Quantum Well InAlN/GaN High-Electron-Mobility Transistors. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 054102	1.4	13
352	Asymmetrically Doped GaAs/AlGaAs Double-Quantum-Well Structure for Voltage-Tunable Infrared Detection. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 074004	1.4	6

351	2DEG GaN hot electron microbolometers and quantum cascade lasers for THz heterodyne sensing <b>2011</b> ,		3
350	Gain and losses in THz quantum cascade laser with metal-metal waveguide. <i>Optics Express</i> , <b>2011</b> , 19, 733-8	3.3	36
349	Terahertz meta-atoms coupled to a quantum well intersubband transition. <i>Optics Express</i> , <b>2011</b> , 19, 13700-6	3.3	41
348	Higher order modes in photonic crystal slabs. <i>Optics Express</i> , <b>2011</b> , 19, 15990-5	3.3	5
347	Terahertz nonlinear optics using intra-excitonic quantum well transitions: Sideband generation and AC Stark splitting. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 859-862	1.3	6
346	AFM-based photocurrent imaging of epitaxial and colloidal QDs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 426-428		1
345	Layer-by-layer assembly of titania nanoparticles based ionic networks. <i>Chemical Communications</i> , <b>2011</b> , 47, 361-3	5.8	15
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39	Energy levels of quantum wires determined from magnetophonon resonance experiments. <i>Physical Review B</i> , <b>1998</b> , 57, 3966-3973	3-3	16
38	Energy Relaxation of Electrons in GaAs/AlGaAs Quantum Wells and Superlattices <b>1998</b> , 153-160		
37	THz Time-Domain Spectroscopy of Intersubband Plasmons <b>1998</b> , 173-180		
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35	Driving Intersubband Transitions With THz Pulses. <i>Springer Series in Chemical Physics</i> , <b>1998</b> , 208-210	0-3	
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33	Direct observation of the LO phonon bottleneck in wide GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As quantum wells. <i>Physical Review B</i> , <b>1997</b> , 55, 5171-5176	3-3	114
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28	Ballistic Electron Emission Microscopy on Quantum Wires. <i>Physica Status Solidi (B): Basic Research</i> , <b>1997</b> , 204, 386-392	1-3	

27	Quenching of Miniband Transport in Biased Undoped Superlattices. <i>Physica Status Solidi (B): Basic Research</i> , <b>1997</b> , 204, 393-396	1.3	6
26	Coherent Few-Cycle THz Emission from Plasmons in Bulk GaAs. <i>Physica Status Solidi (B): Basic Research</i> , <b>1997</b> , 204, 67-69	1.3	1
25	Transport characterization of quantum wires by magnetophonon and magnetic depopulation experiments. <i>Superlattices and Microstructures</i> , <b>1997</b> , 22, 249-255	2.8	6
24	Local barrier heights on quantum wires determined by ballistic electron emission microscopy. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 2876-2878	3.4	10
23	Temperature-dependent magnetotransport properties for systems of few quantum wires. <i>Physica B: Condensed Matter</i> , <b>1996</b> , 227, 24-30	2.8	7
22	Time resolved studies of intersubband relaxation in GaAs/AlGaAs quantum wells below the optical phonon energy using a free electron laser. <i>Superlattices and Microstructures</i> , <b>1996</b> , 19, 17-24	2.8	14
21	Single quantum dots as scanning tunneling microscope tips. <i>Superlattices and Microstructures</i> , <b>1996</b> , 20, 623-626	2.8	4
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19	Calcium- and oxygen-doped high-Tc superconductive $Y_{1-x}Ca_xBa_2Cu_3O_y$ films. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 223, 14-18	1.3	13
18	Comparison of IR - active phonons In YBCO ceramics with different carrier concentrations. <i>Journal of Alloys and Compounds</i> , <b>1993</b> , 195, 355-358	5.7	
17	. <i>IEEE Transactions on Power Systems</i> , <b>1993</b> , 8, 1227-1234	7	0
16	Influence of impurities on broadband p-type-Ge laser spectra under uniaxial stress. <i>Physical Review B</i> , <b>1993</b> , 47, 16586-16589	3.3	2
15	Narrowband Landau emission from high purity GaAs layers grown by molecular beam epitaxy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1993</b> , 168, 117-119	5.3	
14	Critical temperature dependence of $YBa_2Cu_3O_y$ and $Y_{1-x}Ca_xBa_2Cu_3O_y$ on carrier concentration. <i>Physica C: Superconductivity and Its Applications</i> , <b>1993</b> , 206, 291-296	1.3	33
13	Analysis of impurity distribution in n-GaAs layers by photoconductivity and cyclotron resonance measurements. <i>Applied Surface Science</i> , <b>1991</b> , 50, 261-264	6.7	1
12	Improved tunable InSb FIR detectors. <i>Infrared Physics</i> , <b>1991</b> , 32, 439-442		23
11	Subband spectroscopy in two-dimensional electron gas systems. <i>Semiconductor Science and Technology</i> , <b>1990</b> , 5, 308-311	1.8	7
10	Subbands and photoconductivity in two barrier-separated 2D electron gas systems. <i>Surface Science</i> , <b>1990</b> , 228, 399-402	1.8	

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8	Temperature dependence of far-infrared difference reflectivity of YBa <sub>2</sub> Cu. <i>Physical Review B</i> , <b>1989</b> , 39, 6716-6726	3.3	8
7	Difference FIR-reflectivity measurements of YBCO samples and their model dielectric function. <i>Physica C: Superconductivity and Its Applications</i> , <b>1988</b> , 153-155, 816-817	1.3	4
6	Thermodynamic and Magneto-Optic Investigations of the Landau Level Density of States for 2D Electrons in GaAs. <i>Springer Series in Solid-state Sciences</i> , <b>1987</b> , 193-201	0.4	2
5	Landau level density of states through specific heat in GaAs/GaAlAs multilayers. <i>Surface Science</i> , <b>1986</b> , 170, 277-284	1.8	11
4	Specific heat of two-dimensional electrons in GaAs-GaAlAs multilayers. <i>Physical Review Letters</i> , <b>1985</b> , 54, 1820-1823	7.4	221
3	A direct up-conversion transmitter with integrated prescaler for reconfigurable multi-band/multi-standard base stations		3
2	Surface emitting quantum cascade lasers		1
1	Octave-spanning low-loss mid-IR waveguides based on semiconductor-loaded plasmonics. <i>Optics Express</i> ,	3.3	2