

# Gottfried Strasser

## List of Publications by Citations

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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	Microcavity-integrated graphene photodetector. <i>Nano Letters</i> , <b>2012</b> , 12, 2773-7	11.5	623
493	Reversing the pump dependence of a laser at an exceptional point. <i>Nature Communications</i> , <b>2014</b> , 5, 4034	17.4	312
492	Ultrastrong light-matter coupling regime with polariton dots. <i>Physical Review Letters</i> , <b>2010</b> , 105, 196402	7.4	305
491	Specific heat of two-dimensional electrons in GaAs-GaAlAs multilayers. <i>Physical Review Letters</i> , <b>1985</b> , 54, 1820-1823	7.4	221
490	Few-Cycle THz Emission from Cold Plasma Oscillations. <i>Physical Review Letters</i> , <b>1997</b> , 79, 3038-3041	7.4	145
489	Strong light-matter coupling in subwavelength metal-dielectric microcavities at terahertz frequencies. <i>Physical Review Letters</i> , <b>2009</b> , 102, 186402	7.4	135
488	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
487	Optical properties of metal-dielectric-metal microcavities in the THz frequency range. <i>Optics Express</i> , <b>2010</b> , 18, 13886-907	3.3	114
486	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
485	Tuning the electro-optical properties of germanium nanowires by tensile strain. <i>Nano Letters</i> , <b>2012</b> , 12, 6230-4	11.5	104
484	Terahertz phase modulator. <i>Electronics Letters</i> , <b>2000</b> , 36, 1156	1.1	96
483	Surface plasmon-enhanced photoluminescence from a single quantum well. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1577-1579	3.4	96
482	Observation of the intraexciton Autler-Townes effect in GaAs/AlGaAs semiconductor quantum wells. <i>Physical Review Letters</i> , <b>2010</b> , 105, 167401	7.4	90
481	Negative differential resistance in dislocation-free GaN/AlGaN double-barrier diodes grown on bulk GaN. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 172106	3.4	90
480	Ultrafast intraband spectroscopy of electron capture and relaxation in InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3572-3574	3.4	90
479	Coherent plasmons in n-doped GaAs. <i>Physical Review B</i> , <b>1998</b> , 58, 4553-4559	3.3	88
478	Analysis of degradation mechanisms in lattice-matched InAlN/GaN high-electron-mobility transistors. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 124503	2.5	84

477	Diffusion and drift in terahertz emission at GaAs surfaces. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 5476-5478	3.4	84
476	Technology and Performance of InAlN/AlN/GaN HEMTs With Gate Insulation and Current Collapse Suppression Using Zr $\text{O}_2$ or Hf $\text{O}_2$ . <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 937-941	2.9	76
475	High-temperature performance of GaAs-based bound-to-continuum quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4698-4700	3.4	73
474	GaN/AlGaN intersubband optoelectronic devices. <i>New Journal of Physics</i> , <b>2009</b> , 11, 125023	2.9	71
473	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
472	Transition Between Coherent and Incoherent Electron Transport in GaAs/GaAlAs Superlattices. <i>Physical Review Letters</i> , <b>1998</b> , 81, 3495-3498	7.4	64
471	GaAs/AlGaAs superlattice quantum cascade lasers at 13 $\mu\text{m}$ . <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1345-1347	3.4	62
470	Random lasers for broadband directional emission. <i>Optica</i> , <b>2016</b> , 3, 1035	8.6	61
469	Influence of carrier-carrier interaction on time-dependent intersubband absorption in a semiconductor quantum well. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	60
468	Gate insulation and drain current saturation mechanism in InAlN/GaN metal-oxide-semiconductor high-electron-mobility transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 043509	3.4	59
467	Coherent injection locking of quantum cascade laser frequency combs. <i>Nature Photonics</i> , <b>2019</b> , 13, 101-104	3.9	59
466	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
465	MOCVD of HfO <sub>2</sub> and ZrO <sub>2</sub> high-k gate dielectrics for InAlN/AlN/GaN MOS-HEMTs. <i>Semiconductor Science and Technology</i> , <b>2007</b> , 22, 1272-1275	1.8	54
464	Photonic crystal slab quantum well infrared photodetector. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 011105	3.4	51
463	Active photonic crystal terahertz laser. <i>Optics Express</i> , <b>2009</b> , 17, 941-6	3.3	51
462	High-power GaAs/AlGaAs quantum fountain unipolar laser emitting at 14.5 $\mu\text{m}$ with 2.5% tunability. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 1537-1539	3.4	51
461	Continuous-wave operation of distributed feedback AlAs/GaAs superlattice quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 3328-3330	3.4	50
460	Influence of doping on the performance of terahertz quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 101107	3.4	49

459	Magnetic-field-enhanced quantum-cascade emission. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 19-21	3-4	49
458	Ultrathin InAlN/AlN Barrier HEMT With High Performance in Normally Off Operation. <i>IEEE Electron Device Letters</i> , <b>2009</b> , 30, 1030-1032	4-4	48
457	Short-wavelength intersubband electroabsorption modulation based on electron tunneling between GaN/AlN coupled quantum wells. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 2235-11	3-4	48
456	Antireflection coating for miniband transport and Fabry-Pérot resonances in GaAs/AlGaAs superlattices. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1486-1488	3-4	48
455	Ultrafast coherent electron transport in semiconductor quantum cascade structures. <i>Physical Review Letters</i> , <b>2002</b> , 89, 047402	7-4	46
454	Surface-emitting distributed feedback quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2086-2088	3-4	46
453	Room-temperature emission of GaAs/AlGaAs superlattice quantum-cascade lasers at 12.6 $\mu\text{m}$ . <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1864-1866	3-4	44
452	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
451	GaAs/AlGaAs distributed feedback quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 253-255	3-4	43
450	Terahertz meta-atoms coupled to a quantum well intersubband transition. <i>Optics Express</i> , <b>2011</b> , 19, 13700-6	3-3	41
449	Terahertz quantum cascade lasers based on type II InGaAs/GaAsSb/InP. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 261110	3-4	41
448	Gate-lag and drain-lag effects in (GaN)/InAlN/GaN and InAlN/AlN/GaN HEMTs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2007</b> , 204, 2019-2022	1.6	39
447	Two-dimensional broadband distributed-feedback quantum cascade laser arrays. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 141101	3-4	38
446	Terahertz quantum cascade structures: Intra- versus interwell transition. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1928-1930	3-4	38
445	Thermally induced voltage shift in capacitance-voltage characteristics and its relation to oxide/semiconductor interface states in Ni/Al <sub>2</sub> O <sub>3</sub> /InAlN/GaN heterostructures. <i>Semiconductor Science and Technology</i> , <b>2009</b> , 24, 035008	1.8	37
444	Vertically emitting terahertz quantum cascade ring lasers. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 011120	3-4	37
443	Intersubband photoconductivity at 1.6 $\mu\text{m}$ using a strain-compensated AlN/GaN superlattice. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 191102	3-4	37
442	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

441	Low divergence single-mode surface emitting quantum cascade ring lasers. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 161101	3-4	36
440	Terahertz microcavity quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 211112	3-4	36
439	Intraband transitions in quantum dot/superlattice heterostructures. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	36
438	Interferometric study of thermal dynamics in GaAs-based quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1664-1666	3-4	36
437	Single-mode surface-emitting quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 211102	3-4	36
436	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
435	Influence of the material parameters on quantum cascade devices. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 131108	3-4	35
434	Terahertz photonic crystal resonators in double-metal waveguides. <i>Optics Express</i> , <b>2007</b> , 15, 12418-24	3-3	35
433	Near infrared absorption and room temperature photovoltaic response in AlN/GaN superlattices grown by metal-organic vapor-phase epitaxy. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 041106	3-4	35
432	Ballistic electron spectroscopy of vertical superlattice minibands. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 649-651	3-4	34
431	Towards functional group-specific detection in high-performance liquid chromatography using mid-infrared quantum cascade lasers. <i>Journal of Chromatography A</i> , <b>2001</b> , 934, 123-8	4-5	34
430	Long-wavelength ( $\lambda = 10 \mu\text{m}$ ) quadrupolar-shaped GaAs-AlGaAs microlasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2000</b> , 36, 458-464	2	34
429	Monolithic frequency comb platform based on interband cascade lasers and detectors. <i>Optica</i> , <b>2019</b> , 6, 890	8-6	34
428	Fixed interface charges between AlGaN barrier and gate stack composed of in situ grown SiN and Al <sub>2</sub> O <sub>3</sub> in AlGaN/GaN high electron mobility transistors with normally off capability. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 113502	3-4	33
427	Critical temperature dependence of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> and Y <sub>1-x</sub> CaxBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> on carrier concentration. <i>Physica C: Superconductivity and Its Applications</i> , <b>1993</b> , 206, 291-296	1-3	33
426	Diagonal-transition quantum cascade detector. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 091108	3-4	32
425	Electroluminescence of a quantum dot cascade structure. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3862-3864	3-4	32
424	Subwavelength micropillar array terahertz lasers. <i>Optics Express</i> , <b>2014</b> , 22, 274-82	3-3	31

423	Probing scattering mechanisms with symmetric quantum cascade lasers. <i>Optics Express</i> , <b>2013</b> , 21, 7209-153	3.3	31
422	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
421	Impact of doping on the performance of short-wavelength InP-based quantum-cascade lasers. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 033104	2.5	31
420	Pulse-induced quantum interference of intersubband transitions in coupled quantum wells. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 64-66	3.4	31
419	Energy level engineering in InAs quantum dot nanostructures. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2079-2081	3.4	31
418	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
417	GaAs/AlGaAs-based microcylinder lasers emitting at 10 $\mu\text{m}$ . <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1045-1047	3.4	30
416	InAs based terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 011109	3.4	30
415	In-Phase and Anti-Phase Synchronization in a Laser Frequency Comb. <i>Physical Review Letters</i> , <b>2020</b> , 124, 023901	7.4	29
414	Sampling a terahertz dipole transition with subcycle time resolution. <i>Optics Letters</i> , <b>2000</b> , 25, 272-4	3	29
413	Temperature dependence of far-infrared electroluminescence in parabolic quantum wells. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 3158-3160	3.4	29
412	Terahertz-electroluminescence in a quantum cascade structure. <i>Physica B: Condensed Matter</i> , <b>1999</b> , 272, 216-218	2.8	29
411	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
410	Nanoimprinted superlattice metallic photonic crystal as ultrasensitive solar absorber. <i>Optica</i> , <b>2015</b> , 2, 743	8.6	28
409	InAs/AlAsSb based quantum cascade detector. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 081107	3.4	28
408	Current transport and barrier height evaluation in Ni/InAlN/GaN Schottky diodes. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 223501	3.4	28
407	Spectroscopy in the gas phase with GaAs/AlGaAs quantum-cascade lasers. <i>Applied Optics</i> , <b>2000</b> , 39, 6926-30	3.4	28
406	Resonant metamaterial detectors based on THz quantum-cascade structures. <i>Scientific Reports</i> , <b>2014</b> , 4, 4269	4.9	27

405	Mid-infrared surface transmitting and detecting quantum cascade device for gas-sensing. <i>Scientific Reports</i> , <b>2016</b> , 6, 21795	4.9	27
404	. <i>IEEE Transactions on Electron Devices</i> , <b>2014</b> , 61, 3429-3434	2.9	27
403	Free-carrier absorption in quantum cascade structures. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	27
402	Continuum Wannier-Stark Ladders Strongly Coupled by Zener Resonances in Semiconductor Superlattices. <i>Physical Review Letters</i> , <b>1999</b> , 82, 3120-3123	7.4	27
401	Terahertz active photonic crystals for condensed gas sensing. <i>Sensors</i> , <b>2011</b> , 11, 6003-14	3.8	26
400	Proposal and Performance Analysis of Normally Off $\text{GaN/InAlN/AlN/GaN}$ HEMTs With 1-nm-Thick InAlN Barrier. <i>IEEE Transactions on Electron Devices</i> , <b>2010</b> , 57, 2144-2154	2.9	26
399	Mid-infrared electroluminescence in GaAs/AlGaAs structures. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 2892-2894	3.4	26
398	Grating-coupled surface emitting quantum cascade ring lasers. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 011108	3.4	26
397	Growth of branched single-crystalline GaAs whiskers on Si nanowire trunks. <i>Nanotechnology</i> , <b>2007</b> , 18, 355306	3.4	26
396	Picosecond pulses from a mid-infrared interband cascade laser. <i>Optica</i> , <b>2019</b> , 6, 1334	8.6	26
395	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
394	Electrooptical Modulator at Telecommunication Wavelengths Based on GaN/AlN Coupled Quantum Wells. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 724-726	2.2	25
393	High-performance distributed feedback quantum cascade lasers grown by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5529-5531	3.4	25
392	Excitonic signatures in the photoluminescence and terahertz absorption of a GaAs $_{1-x}$ Ga $_x$ As multiple quantum well. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	25
391	4.3 $\mu\text{m}$ quantum cascade detector in pixel configuration. <i>Optics Express</i> , <b>2016</b> , 24, 17041-9	3.3	25
390	Ultrastrong coupling of intersubband plasmons and terahertz metamaterials. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 201106	3.4	24
389	Quantum cascade laser utilising aluminium-free material system: InGaAs/GaAsSb lattice-matched to InP. <i>Electronics Letters</i> , <b>2009</b> , 45, 1031	1.1	24
388	Subwavelength Microdisk and Microring Terahertz Quantum-Cascade Lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2007</b> , 43, 687-697	2	24

- 387 Band structure mapping of photonic crystal intersubband detectors. *Applied Physics Letters*, **2006**, 89, 151107 3.4 24
- 386 Intersubband absorption dynamics in coupled quantum wells. *Applied Physics Letters*, **2001**, 79, 2755-2757 3.4 24
- 385 Long wavelength (15 and 23  $\mu\text{m}$ ) GaAs/AlGaAs quantum cascade lasers. *Applied Physics Letters*, **2002**, 80, 3691-3693 3.4 24
- 384 Self-aligned coupled cavity GaAs/AlGaAs midinfrared quantum-cascade laser. *Applied Physics Letters*, **2000**, 77, 1077-1079 3.4 24
- 383 Monolithically integrated mid-infrared quantum cascade laser and detector. *Sensors*, **2013**, 13, 2196-2053 3.8 23
- 382 Low bias reactive ion etching of GaAs with a  $\text{SiCl}_4/\text{N}_2/\text{O}_2$  time-multiplexed process. *Journal of Vacuum Science & Technology B*, **2007**, 25, 839 23
- 381 Intersubband transport in quantum wells in strong magnetic fields mediated by single- and two-electron scattering. *Physical Review Letters*, **2002**, 88, 226803 7.4 23
- 380 Strained InGaAs/AlGaAs/GaAs-quantum cascade lasers. *Applied Physics Letters*, **2000**, 76, 3361-3363 3.4 23
- 379 Improved tunable InSb FIR detectors. *Infrared Physics*, **1991**, 32, 439-442 23
- 378 Plasmonic lens enhanced mid-infrared quantum cascade detector. *Applied Physics Letters*, **2014**, 105, 171112 3.4 22
- 377 Fano signatures in the intersubband terahertz response of optically excited semiconductor quantum wells. *Physical Review Letters*, **2009**, 102, 127403 7.4 22
- 376 Plasmon-based terahertz emission from quantum well structures. *Applied Physics Letters*, **1999**, 75, 1685-1687 2.2 22
- 375 Thermoelectric-cooled terahertz quantum cascade lasers. *Optics Express*, **2019**, 27, 20688-20693 3.3 22
- 374 Singular charge fluctuations at a magnetic quantum critical point. *Science*, **2020**, 367, 285-288 33.3 21
- 373 Sub-diffraction-limit semiconductor resonators operating on the fundamental magnetic resonance. *Applied Physics Letters*, **2012**, 100, 131113 3.4 21
- 372 Lattice-Matched GaN/AlN Waveguides at  $\lambda=1.55 \mu\text{m}$  Grown by Metal-Organic Vapor Phase Epitaxy. *IEEE Photonics Technology Letters*, **2008**, 20, 102-104 2.2 21
- 371 Quantum cascade lasers with lateral double-sided distributed feedback grating. *Applied Physics Letters*, **2005**, 86, 111103 3.4 21
- 370 Influence of thickness on crystallinity in wafer-scale GaTe nanolayers grown by molecular beam epitaxy. *AIP Advances*, **2017**, 7, 035113 1.5 20



369	Nucleation of Ga droplets on Si and SiOx surfaces. <i>Nanotechnology</i> , <b>2015</b> , 26, 315601	3.4	20
368	Dopant migration effects in terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 201102	3.4	20
367	Ring cavity induced threshold reduction in single-mode surface emitting quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 031111	3.4	20
366	Ultrafast phase-resolved pump-probe measurements on a quantum cascade laser. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 151106	3.4	20
365	Resonant enhancement of second order sideband generation for intraexcitonic transitions in GaAs/AlGaAs multiple quantum wells. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 241105	3.4	19
364	Hybrid integration of GaAs quantum cascade lasers with Si substrates by thermocompression bonding. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 051117	3.4	19
363	Dephasing in modulation-doped quantum structures probed by THz time-domain spectroscopy. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4344-4346	3.4	19
362	Electron refraction in ballistic electron-emission microscopy studied by a superlattice energy filter. <i>Physical Review B</i> , <b>1998</b> , 58, R7516-R7519	3.3	19
361	Quantum cascade lasers with monolithic air-semiconductor Bragg reflectors. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1241-1243	3.4	18
360	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
359	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
358	Linearly polarized light from substrate emitting ring cavity quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 081101	3.4	17
357	High performance bi-functional quantum cascade laser and detector. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 071104	3.4	17
356	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
355	Polaritonic spectroscopy of intersubband transitions. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	17
354	Tree array quantum cascade laser. <i>Optics Express</i> , <b>2009</b> , 17, 649-57	3.3	17
353	Current collapse reduction in InAlN/GaN MOS HEMTs by in situ surface pre-treatment and atomic layer deposition of ZrO2 high-k gate dielectrics. <i>Electronics Letters</i> , <b>2009</b> , 45, 570	1.1	17
352	Quantum Dot Infrared Photodetectors: Photoresponse Enhancement Due to Potential Barriers. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 21	5	17

351	Resonant impurity bands in semiconductor superlattices. <i>Physical Review Letters</i> , <b>2005</b> , 95, 257401	7.4	17
350	Surface-modified GaAs terahertz plasmon emitter. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 871-873	3.4	17
349	Wannier-Stark states in finite superlattices. <i>Physical Review Letters</i> , <b>2002</b> , 89, 136803	7.4	17
348	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
347	High-Power Growth-Robust InGaAs/InAlAs Terahertz Quantum Cascade Lasers. <i>ACS Photonics</i> , <b>2017</b> , 4, 957-962	6.3	16
346	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 <sup>2.2</sup>		16
345	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
344	Gas nitriding and subsequent oxidation of Ti-6Al-4V alloys. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 21	5	16
343	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
342	Ballistic electron emission microscopy on biased GaAs/AlGaAs superlattices. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3138-3140	3.4	16
341	Surface emission from episcide-down short distributed-feedback quantum cascade lasers. <i>Optics Express</i> , <b>2008</b> , 16, 11920-9	3.3	16
340	Bi-stable behaviour in GaN-based resonant tunnelling diode structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 431-434		16
339	Coherent terahertz emission from optically pumped intersubband plasmons in parabolic quantum wells. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 3501-3503	3.4	16
338	Energy levels of quantum wires determined from magnetophonon resonance experiments. <i>Physical Review B</i> , <b>1998</b> , 57, 3966-3973	3.3	16
337	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
336	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
335	Layer-by-layer assembly of titania nanoparticles based ionic networks. <i>Chemical Communications</i> , <b>2011</b> , 47, 361-3	5.8	15
334	Ultrafast probing of light-matter interaction in a midinfrared quantum cascade laser. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 091105	3.4	15

333	Ballistic electron transport through titanylphthalocyanine films. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 092103	3.4	15
332	High-power tunable quantum fountain unipolar lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 12-19	3	15
331	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
330	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
329	Photonic crystal slab quantum cascade detector. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 241103	3.4	14
328	Off-state breakdown in InAlN/AlN/GaN high electron mobility transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, S925-S928		14
327	Monolithically integrated AlGaIn/GaN/AlN-based solar-blind ultraviolet and near-infrared detectors. <i>Electronics Letters</i> , <b>2008</b> , 44, 986	1.1	14
326	Influence of the band-offset on the electronic temperature of GaAs/Al(Ga)As superlattice quantum cascade lasers. <i>Semiconductor Science and Technology</i> , <b>2004</b> , 19, S110-S112	1.8	14
325	A highly transmissive semiconductor base for ballistic electron emission microscopy. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 1218-1220	3.4	14
324	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
323	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
322	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
321	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
320	High resolution photocurrent imaging by atomic force microscopy on the example of single buried InAs quantum dots. <i>Semiconductor Science and Technology</i> , <b>2010</b> , 25, 065010	1.8	13
319	Interface States and Trapping Effects in Al <sub>2</sub> O <sub>3</sub> - and ZrO <sub>2</sub> /InAlN/AlN/GaN MetalOxideSemiconductor Heterostructures. <i>Japanese Journal of Applied Physics</i> , <b>2009</b> , 48, 090201	1.4	13
318	Midinfrared intersubband absorption in InGaAs/GaAsSb multiple quantum wells. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 041102	3.4	13
317	Coherence in Y-coupled quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 161106	3.4	13
316	Calcium- and oxygen-doped high-T <sub>c</sub> superconductive Y <sub>1-x</sub> CaxBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> films. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 223, 14-18	1.3	13

315	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
314	Remote Sensing with Commutable Monolithic Laser and Detector. <i>ACS Photonics</i> , <b>2016</b> , 3, 1794-1798	6.3	12
313	Intersubband optoelectronics in the InGaAs/GaAsSb material system. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2010</b> , 28, C3G19-C3G23	1.3	12
312	Low resistance ohmic contacts annealed at 600 °C on a InAlN/GaN heterostructure with SiCl <sub>4</sub> -reactive ion etching surface treatment. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, S999-S1002		12
311	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
310	Ballistic electron transport in vertical biased superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>1998</b> , 2, 282-286	3	12
309	In-based quantum dots on Al <sub>x</sub> Ga <sub>1-x</sub> As surfaces. <i>Microelectronic Engineering</i> , <b>2007</b> , 84, 1443-1445	2.5	12
308	Optical modes in mesoscopic quantum cascade ring lasers. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	12
307	GaAs/AlGaAs quantum cascade laser as a source for gas absorption spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 37-39	3	12
306	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
305	Grating-based far field modifications of ring quantum cascade lasers. <i>Optics Express</i> , <b>2014</b> , 22, 15829-36	3.3	11
304	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
303	Electrically controllable photonic molecule laser. <i>Optics Express</i> , <b>2009</b> , 17, 20321-6	3.3	11
302	Doping dependence of LO-phonon depletion scheme THz quantum-cascade lasers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2008</b> , 147, 152-155	3.1	11
301	Coherent 5.35 $\mu$ m surface emission from a GaAs-based distributed feedback quantum-cascade laser. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 121104	3.4	11
300	Room-temperature operation of electrically pumped quantum-cascade microcylinder lasers. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4094-4096	3.4	11
299	$k_{\parallel}=0$ filtering in resonant-tunneling processes between materials of different effective electron mass. <i>Physical Review B</i> , <b>1999</b> , 60, R5137-R5140	3.3	11
298	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

297	Incorporation of Sb and As in MBE grown GaAsxSb1-x layers. <i>APL Materials</i> , <b>2017</b> , 5, 035501	5.7	10
296	Growth rate dependence of boron incorporation into BxGa1-xAs layers. <i>Journal of Crystal Growth</i> , <b>2017</b> , 477, 77-81	1.6	10
295	Application of a ring cavity surface emitting quantum cascade laser (RCSE-QCL) on the measurement of H2S in a CH4 matrix for process analytics. <i>Optics Express</i> , <b>2016</b> , 24, 6572-85	3.3	10
294	Statistics and localisation of vertical breakdown in AlGaIn/GaN HEMTs on SiC and Si substrates for power applications. <i>Microelectronics Reliability</i> , <b>2013</b> , 53, 1444-1449	1.2	10
293	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
292	Metal-related gate sinking due to interfacial oxygen layer in Ir/InAlN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 263515	3.4	10
291	Characterization of Plasma-Induced Damage of Selectively Recessed GaN/InAlN/AlN/GaN Heterostructures Using SiCl4 and SF6. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 116506	1.4	10
290	Si doping of MBE grown bulk GaAsSb on InP. <i>Journal of Crystal Growth</i> , <b>2011</b> , 323, 42-44	1.6	10
289	Narrow electron injector for ballistic electron spectroscopy. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3639-3641	3.4	10
288	Mean free path of ballistic electrons in GaAs/AlGaAs superlattices. <i>Superlattices and Microstructures</i> , <b>1999</b> , 25, 47-51	2.8	10
287	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
286	Ballistic electron emission microscopy in liquid helium using low dimensional collector electrodes. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 1725-1727	3.4	10
285	Current collapse reduction in InAlGaIn/GaN 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
284	The limit of quantum cascade detectors: A single period device. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 061107	3.4	9
283	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
282	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
281	Magnetic-field assisted performance of InGaAs/GaAsSb terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 051116	3.4	9
280	Wavelength dependent phase locking in quantum cascade laser Y-junctions. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 061110	3.4	9

279	Pump-probe spectroscopy of interminiband relaxation and electron cooling in doped superlattices. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 151108	3.4	9
278	Single InAs/GaAs quantum dots: Photocurrent and cross-sectional AFM analysis. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 32, 183-186	3	9
277	Second-harmonic generation in GaAs-based quantum-cascade lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 35, 234-240	3	9
276	Modeling the elastic properties of the ternary III $\nu$ 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
275	Modulated reflectance study of InAs quantum dot stacks embedded in GaAs/AlAs superlattice. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 064308	2.5	8
274	Blueshift of intersubband magneto-optical transitions linked to void states of thin barriers in multiple quantum well structures. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	8
273	Tuning quantum-cascade lasers by postgrowth rapid thermal processing. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 164-166	3.4	8
272	Photoconductive response of InAs/GaAs quantum dot stacks. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 13, 190-193	3	8
271	Spectral dynamics of distributed feedback quantum cascade lasers. <i>Semiconductor Science and Technology</i> , <b>2004</b> , 19, S336-S338	1.8	8
270	Photocurrent spectroscopy of single InAs/GaAs quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 3114-3117		8
269	Second-harmonic generation in GaAs-based quantum-cascade lasers grown on <100> substrates. <i>Electronics Letters</i> , <b>2005</b> , 41, 1331	1.1	8
268	Voltage-controlled intracavity terahertz generator for self-starting Ti:sapphire lasers. <i>Optics Letters</i> , <b>2002</b> , 27, 1941-3	3	8
267	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
266	Terahertz emitter with integrated semiconductor Bragg mirror. <i>Electronics Letters</i> , <b>2003</b> , 39, 460	1.1	8
265	All-optical adaptive control of quantum cascade random lasers. <i>Nature Communications</i> , <b>2020</b> , 11, 5530	17.4	8
264	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
263	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
262	Nonparabolicity effects in InGaAs/GaAsSb double barrier resonant tunneling diodes. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 073707	2.5	7

261	Enhanced Rashba effect in transverse magnetic fields observed on InGaAs/GaAsSb resonant tunneling diodes at temperatures up to $T = 180$ K. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 152107	3-4	7
260	Extraordinary transmission in metal hole array-photonic crystal hybrid structures. <i>Optics Express</i> , <b>2012</b> , 20, 17174	3-3	7
259	Brenkov-type phase-matched second-harmonic emission from GaAs/AlGaAs quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 111114	3-4	7
258	Quantitative scanning capacitance microscopy on single subsurface InAs quantum dots. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 092112	3-4	7
257	Influence of GaN capping on performance of InAlN/AlN/GaN MOS-HEMT with Al <sub>2</sub> O <sub>3</sub> gate insulation grown by CVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 1956-1958		7
256	Ultrafast spectral hole burning spectroscopy of exciton spin flip processes in InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 192105	3-4	7
255	Microcavity THz quantum cascade laser. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 32, 316-319	3	7
254	L-valley electron transport in GaAs-AlAs double-barrier resonant tunneling structures studied by ballistic electron emission microscopy. <i>Physical Review B</i> , <b>2002</b> , 66,	3-3	7
253	A device layout for tunneling spectroscopy of barrier-separated electron systems with tunable dimensionality. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 1758-1760	3-4	7
252	Coherent THz plasmons in GaAs/AlGaAs superlattices. <i>Physica B: Condensed Matter</i> , <b>1999</b> , 272, 375-377	2-8	7
251	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
250	Subband spectroscopy in two-dimensional electron gas systems. <i>Semiconductor Science and Technology</i> , <b>1990</b> , 5, 308-311	1-8	7
249	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
248	Engineering the spectral bandwidth of quantum cascade laser frequency combs. <i>Optics Letters</i> , <b>2021</b> , 46, 3416-3419	3	7
247	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
246	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
245	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
244	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

243	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
242	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
241	Electrical beam steering of Y-coupled quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 141113	3.4	6
240	THz quantum cascade lasers with wafer bonded active regions. <i>Optics Express</i> , <b>2012</b> , 20, 23832-7	3.3	6
239	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
238	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
237	Probing of superlattice minibands by ballistic electron emission microscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>1998</b> , 2, 850-853	3	6
236	Photocurrent response from photonic crystal defect modes. <i>Optics Express</i> , <b>2008</b> , 16, 4797-803	3.3	6
235	InAs/AlGaAs QDs for intersubband devices. <i>Superlattices and Microstructures</i> , <b>2008</b> , 44, 411-415	2.8	6
234	Independent control of InAs quantum dot density and size on Al <sub>x</sub> Ga <sub>1-x</sub> As surfaces. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2008</b> , 19, 714-719	2.1	6
233	GaAs/AlGaAs quantum cascade lasers with dry etched semiconductor-air Bragg reflectors. <i>Journal of Modern Optics</i> , <b>2005</b> , 52, 2303-2308	1.1	6
232	Self organized InAs quantum dots grown on patterned GaAs substrates. <i>Microelectronic Engineering</i> , <b>2006</b> , 83, 1573-1576	2.5	6
231	Nano-patterning and growth of self-assembled quantum dots. <i>Microelectronics Journal</i> , <b>2006</b> , 37, 1532-1584	6	6
230	Energy level engineering in InAs quantum dot stacks embedded in AlAs/GaAs superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 17, 42-45	3	6
229	Few-cycle terahertz generation and spectroscopy of nanostructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2004</b> , 362, 251-60; discussion 260-2	3	6
228	Quantitative scanning capacitance spectroscopy on GaAs and InAs quantum dots. <i>Semiconductor Science and Technology</i> , <b>2005</b> , 20, 903-907	1.8	6
227	Resonant tunneling mediated by resonant emission of intersubband plasmons. <i>Physical Review Letters</i> , <b>2001</b> , 86, 2850-3	7.4	6
226	Towards stimulated generation of coherent plasmons in nanostructures. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 3708-3712	2.5	6



225	Minibands and Wannier-Stark ladders in semiconductor superlattices studied by infrared spectroscopy. <i>Brazilian Journal of Physics</i> , <b>1999</b> , 29,	1.2	6
224	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
223	Comb operation in terahertz quantum cascade ring lasers. <i>Optica</i> , <b>2021</b> , 8, 780	8.6	6
222	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
221	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
220	Ring quantum cascade lasers with twisted wavefronts. <i>Scientific Reports</i> , <b>2018</b> , 8, 7998	4.9	6
219	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
218	Substrate-emitting ring interband cascade lasers. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 171101	3.4	5
217	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
216	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
215	Higher order modes in photonic crystal slabs. <i>Optics Express</i> , <b>2011</b> , 19, 15990-5	3.3	5
214	Post-fabrication fine-tuning of photonic crystal quantum well infrared photodetectors. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 231117	3.4	5
213	Growth of one-dimensional III-V structures on Si nanowires and pre-treated planar Si surfaces. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 1859-1862	1.6	5
212	Ring-cavity surface-emitting lasers as a building block for tunable and coherent quantum cascade laser arrays. <i>Semiconductor Science and Technology</i> , <b>2011</b> , 26, 014019	1.8	5
211	Optimized photonic crystal design for quantum well infrared photodetectors <b>2012</b> ,		5
210	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
209	Intersubband gain-induced dispersion. <i>Optics Letters</i> , <b>2009</b> , 34, 208-10	3	5
208	Fast characterisation of InAs quantum dot structures using AFM. <i>Journal of Crystal Growth</i> , <b>2004</b> , 264, 26-30	1.6	5

207	Terahertz quantum cascade emitters based on AlAs/GaAs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 13, 900-903	3	5
206	Tracing deeply buried InAs/GaAs quantum dots using atomic force microscopy and wet chemical etching. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 063111	3-4	5
205	Magnetotransport through semiconductor superlattices. <i>Physical Review B</i> , <b>2001</b> , 63,	3-3	5
204	Monolithic integration of vertical-cavity laser diodes and resonant photodetectors with hybrid Si <sub>3</sub> N <sub>4</sub> -SiO <sub>2</sub> top Bragg mirrors. <i>IEEE Photonics Technology Letters</i> , <b>2000</b> , 12, 119-121	2.2	5
203	Temperature-dependent studies of InAs base layers for ballistic electron emission microscopy. <i>Physical Review B</i> , <b>1999</b> , 59, 4618-4621	3-3	5
202	Surface emitting ring quantum cascade lasers for chemical sensing. <i>Optical Engineering</i> , <b>2017</b> , 57, 1	1.1	5
201	Energy Spectrum of InAs Quantum Dots in GaAs/AlAs Superlattices. <i>Acta Physica Polonica A</i> , <b>2008</b> , 113, 975-978	0.6	5
200	Terahertz Intersubband Electroluminescence from Nonpolar m-Plane ZnO Quantum Cascade Structures. <i>ACS Photonics</i> , <b>2021</b> , 8, 343-349	6.3	5
199	Color switching of a terahertz quantum cascade laser. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 191104	3-4	4
198	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
197	Magnetic control of Coulomb scattering and terahertz transitions among excitons. <i>Physical Review B</i> , <b>2014</b> , 89,	3-3	4
196	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
195	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
194	Improved InGaAs/GaAsSb quantum cascade laser active region designs. <i>Journal of Modern Optics</i> , <b>2011</b> , 58, 2015-2020	1.1	4
193	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
192	Quantum cascade electroluminescence in GaAs/AlGaAs structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>1998</b> , 2, 449-452	3	4
191	Reversible switching of quantum cascade laser-modes using a pH-responsive polymeric cladding as transducer. <i>Optics Express</i> , <b>2008</b> , 16, 8557-69	3-3	4
190	Optimization of MBE Growth Parameters for GaAs-based THz Quantum Cascade Lasers. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	4

189	Intraband relaxation of photoexcited electrons in GaAs/AlGaAs quantum wells and InAs/GaAs self-assembled quantum dots. <i>Semiconductor Science and Technology</i> , <b>2004</b> , 19, S287-S289	1.8	4
188	Optics with ballistic electrons: anti-reflection coatings for GaAs/AlGaAs superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 12, 285-288	3	4
187	High performance single mode GaAs quantum cascade lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 13, 840-843	3	4
186	Intersubband relaxation dynamics in semiconductor quantum structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 13, 908-911	3	4
185	Investigation of biomass steam gasification gas using a GaAs based quantum cascade laser emitting at 11 $\mu\text{m}$ . <i>Optics Communications</i> , <b>2003</b> , 216, 357-360	2	4
184	X-ray investigation of quantum well intermixing after postgrowth rapid thermal processing. <i>Journal Physics D: Applied Physics</i> , <b>2005</b> , 38, A132-A136	3	4
183	Enhanced k <sup>2</sup> filtering effects in ballistic electron emission experiments. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	4
182	Metal-insulator-metal injector for ballistic electron emission spectroscopy. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 4007-4009	3.4	4
181	Single quantum dots as scanning tunneling microscope tips. <i>Superlattices and Microstructures</i> , <b>1996</b> , 20, 623-626	2.8	4
180	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
179	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
178	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
177	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
176	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
175	Coupled cavity terahertz quantum cascade lasers with integrated emission monitoring. <i>Optics Express</i> , <b>2015</b> , 23, 3581-8	3.3	3
174	All-Electrical Thermal Monitoring of Terahertz Quantum Cascade Lasers. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 1470-1473	2.2	3
173	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
172	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

171	Towards nanowire-based terahertz quantum cascade lasers: prospects and technological challenges <b>2013</b> ,		3
170	2DEG GaN hot electron microbolometers and quantum cascade lasers for THz heterodyne sensing <b>2011</b> ,		3
169	Strategies toward the realization of two-dimensional broadband and coherent quantum cascade ring laser arrays. <i>Optical Engineering</i> , <b>2010</b> , 49, 111113	1.1	3
168	Coherent coupling of ring cavity surface emitting quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 071103	3.4	3
167	Light induced tuning of quantum cascade lasers. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 051106	3.4	3
166	Study of Si implantation into Mg-doped GaN for MOSFETs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 1964-1966		3
165	GaAs/AlGaAs Intersubband MID-Infrared Emitter. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 484, 165		3
164	Monolithic Mach-Zehnder-type quantum cascade laser. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 063110	2.5	3
163	High-quality MBE growth of AlGaInAs-based THz quantum cascade lasers. <i>Open Physics</i> , <b>2007</b> , 5,	1.3	3
162	Cross-sectional ballistic electron emission microscopy for Schottky barrier height profiling on heterostructures. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 202112	3.4	3
161	A direct up-conversion transmitter with integrated prescaler for reconfigurable multi-band/multi-standard base stations		3
160	Wannier-Stark level anticrossing in biperiodic superlattices. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3692-3695	1.3	3
159	Deeply etched waveguide structures for quantum cascade lasers. <i>Microelectronic Engineering</i> , <b>2006</b> , 83, 1163-1166	2.5	3
158	High-energy ballistic transport in hetero- and nano-structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 16, 129-136	3	3
157	Imaging impurities in AlAs/GaAs single-barrier structures in the regime of the Mott transition. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	3
156	The lower branch of plasmon-phonon coupled modes. <i>Semiconductor Science and Technology</i> , <b>2000</b> , 15, 813-817	1.8	3
155	Ballistic transport through GaAs/AlGaAs superlattices in transverse magnetic fields. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 3495-3500	2.5	3
154	Improved performance of GaAs-AlGaAs superlattice quantum cascade lasers beyond $\lambda = 13 \mu\text{m}$ . <i>IEEE Photonics Technology Letters</i> , <b>2000</b> , 12, 1144-1146	2.2	3

153	GaAs/AlGaAs quantum cascade intersubband and interminiband emitter. <i>Journal of Crystal Growth</i> , <b>1999</b> , 201-202, 919-922	1.6	3
152	Terahertz optical machine learning for object recognition. <i>APL Photonics</i> , <b>2020</b> , 5, 126103	5.2	3
151	Thermal-Dynamics Optimization of Terahertz Quantum Cascade Lasers with Different Barrier Compositions. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	3
150	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
149	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
148	Characterizing intra-exciton Coulomb scattering in terahertz excitations. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 201109	3.4	2
147	Nonspin related giant magnetoresistance 300% in hybrid field-effect transistors with ferromagnetic gates. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 063108	3.4	2
146	Photonic bandstructure engineering of THz quantum-cascade lasers. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 201103	3.4	2
145	Atomic force microscopy based room temperature photocurrent-spectroscopy of single subsurface InAs quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, 793-796		2
144	Coherent control of ground state excitons in the nonlinear regime within an ensemble of self-assembled InAs quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, 876-878		2
143	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
142	Intersubband Dynamics below the Optical Phonon Energy for Single and Coupled Quantum Well Systems. <i>Physica Status Solidi (B): Basic Research</i> , <b>1997</b> , 204, 208-211	1.3	2
141	Terahertz Quantum Cascade Devices: From Intersubband Transition to Microcavity Laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2008</b> , 14, 307-314	3.8	2
140	Two-color pump-probe studies of intraminiband relaxation in doped GaAs/AlGaAs superlattices. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 051104	3.4	2
139	Force and bias dependent contrast in photocurrent imaging on GaAs/AlAs heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 40, 1229-1231	3	2
138	FELBE Free-Electron Laser: Status and Application for Time Resolved Spectroscopy Experiments <b>2006</b> ,		2
137	Ballistic Electron Emission Microscopy/Spectroscopy on Au/Titanylphthalocyanine/GaAs Heterostructures. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 61, 1371-1374	0.3	2
136	High-performance quantum cascade lasers grown by metal-organic vapor phase epitaxy <b>2004</b> ,		2

135	Intersublevel dynamics of semiconductor nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 25, 271-279	3	2
134	Ballistic electron emission microscopy for local measurements of barrier heights on InAs self-assembled quantum dots on GaAs. <i>Physica B: Condensed Matter</i> , <b>2002</b> , 314, 81-85	2.8	2
133	Magnetophonon resonance in the confinement of an n-GaAs/AlGaAs-heterojunction, tuned to a quasi-one-dimensional quantum wire. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 12, 446-449	3	2
132	Room-temperature operation of GaAs-based quantum cascade lasers processed as ridge and microcavity waveguides. <i>IEE Proceedings: Optoelectronics</i> , <b>2003</b> , 150, 282		2
131	Donor ionization energy in bulk GaAs for different donor concentrations and magnetic fields. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, 614-618	1.6	2
130	MBE-grown GaAs/AlGaAs and strained InGaAs/AlGaAs/GaAs quantum cascade lasers. <i>Journal of Crystal Growth</i> , <b>2001</b> , 227-228, 197-201	1.6	2
129	Measuring the energetic distribution of ballistic electrons after their refraction at an Au/GaAs interface. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4964-4966	3.4	2
128	Ballistic electron emission microscopy of In-surface self-assembled InAs dots and wetting layers. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2002</b> , 20, 373		2
127	Few-cycle THz generation for imaging and tomography applications. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, 3691-7	3.8	2
126	Transmission through superlattices with interface roughness. <i>Superlattices and Microstructures</i> , <b>1999</b> , 25, 43-46	2.8	2
125	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
124	Femtosecond Spectral Hole Burning Spectroscopy as a Probe of Exciton Dynamics in Quantum Dots. <i>Acta Physica Polonica A</i> , <b>2008</b> , 113, 777-782	0.6	2
123	Octave-spanning low-loss mid-IR waveguides based on semiconductor-loaded plasmonics. <i>Optics Express</i> ,	3.3	2
122	Finite-Difference Time-Domain Simulation of Mid- and Far-Infrared Quantum Cascade Lasers. <i>Acta Physica Polonica A</i> , <b>2005</b> , 107, 179-183	0.6	2
121	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
120	Spectrally resolved far-fields of terahertz quantum cascade lasers. <i>Optics Express</i> , <b>2016</b> , 24, 25462-25470	3.3	2
119	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
118	Deep learning control of THz QCLs. <i>Optics Express</i> , <b>2021</b> , 29, 23611-23621	3.3	2

117	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
116	Scattering strength dependence of terahertz random lasers. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 151611	1.5	1
115	Resonant tunneling diodes strongly coupled to the cavity field. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 221103	1.4	1
114	THz Quantum Cascade Lasers <b>2018</b> , 597-624		1
113	Terahertz Detection With Nanoscale Semiconductor Rectifiers. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 24-30	4	1
112	Schottky diode formation in GaAs nanowires by heterogeneous contact deposition. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 7101-7106	1.4	1
111	E-mode AlGaIn/GaN True-MOS, with high-k ZrO <sub>2</sub> gate insulator <b>2015</b> ,		1
110	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
109	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
108	Photonic crystal mode terahertz lasers. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 122404	2.5	1
107	Comparison between NEGF simulation and experimental results of Terahertz quantum cascade lasers <b>2009</b> ,		1
106	Controlled generation of resonant electron-electron scattering induced current in quantum well structures. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 172108	3.4	1
105	Coherence and beam shaping in quantum cascade lasers <b>2009</b> ,		1
104	Monolithically integrated UV/IR-photodetectors based on an AlN/GaN-based superlattice grown on an AlGaIn buffer layer. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, S818-S821		1
103	Optical study of InAs quantum dot stacks embedded in GaAs/AlAs superlattices. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, 2710-2712		1
102	Improving size distribution of InAs quantum dots for intersubband devices. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 1799-1802	1.6	1
101	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
100	Fano profile in the intersubband terahertz response of photoexcited GaAs/AlGaIn quantum wells. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 193, 012073	0.3	1

99	Two-photon spectral hole burning spectroscopy of InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 011903	3.4	1
98	An aluminum-free mid-infrared quantum cascade laser <b>2010</b> ,		1
97	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
96	Current transport in multiple superlattice structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>1998</b> , 2, 515-518	3	1
95	Ballistic electron attenuation length in titaniumphthalocyanine films grown on GaAs. <i>Semiconductor Science and Technology</i> , <b>2008</b> , 23, 055008	1.8	1
94	Electro-optical intersubband modulators at telecommunication wavelengths based on GaN/AlN quantum wells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 1093-1095	1.6	1
93	Acoustic phonon-assisted damping of Rabi oscillations in InAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 40, 2013-2015	3	1
92	Dynamical frequency pulling of degenerated and nondegenerated modes in small mode volume whispering-gallery terahertz quantum-cascade lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 40, 1840-1843	3	1
91	Sub-wavelength terahertz quantum-cascade laser resonators <b>2006</b> ,		1
90	Two-electron states bound to interface defects in quantum cascade lasers subjected to a strong magnetic field. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	1
89	Surface emission from MBE and MOVPE grown quantum cascade lasers <b>2005</b> ,		1
88	Magnetic field effects in terahertz quantum-cascade lasers. <i>Semiconductor Science and Technology</i> , <b>2004</b> , 19, S348-S350	1.8	1
87	Three-terminal mid-IR tunable emitters based on Wannier-Stark ladder transitions in semiconductor superlattices. <i>Semiconductor Science and Technology</i> , <b>2004</b> , 19, S87-S88	1.8	1
86	Surface emitting quantum cascade lasers		1
85	Optically induced intraband electron transfer in self-assembled InAs quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, 434-437		1
84	Hot electron spectroscopy of the GaAs/AlAs/GaAs band structure. <i>Semiconductor Science and Technology</i> , <b>2004</b> , 19, S102-S103	1.8	1
83	Room temperature lasing of electrically pumped quantum cascade micro-cylinders. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 17, 626-628	3	1
82	Hot-electron spectroscopy in parallel magnetic fields. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3922-3924	3.4	1



81	Few-cycle THz spectroscopy of semiconductor quantum structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2001</b> , 9, 76-83	3	1
80	Determination of the 2D-Electron Gas Density in a Quantum Well from $C_{\square}$ and $C_{\nabla}$ Measurements. <i>Physica Status Solidi A</i> , <b>2001</b> , 183, 391-397		1
79	Few-cycle THz spectroscopy of nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 693-697	3	1
78	Interminiband spectroscopy of biased superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 274-278	3	1
77	Intersubband and interminiband GaAs/AlGaAs quantum cascade lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 1-7	3	1
76	Magneto-optical Terahertz emission from plasmons in parabolic quantum wells. <i>Semiconductor Science and Technology</i> , <b>2000</b> , 15, 315-321	1.8	1
75	Monitoring the ultrafast electric field change at a mid-infrared plasma Bragg mirror. <i>Optics Letters</i> , <b>2001</b> , 26, 1618-20	3	1
74	Current spectroscopy of superlattice bandstructure and transport. <i>Microelectronic Engineering</i> , <b>1999</b> , 47, 59-63	2.5	1
73	Highly transmissive semiconductor base for ballistic electron emission microscopy. <i>Surface and Interface Analysis</i> , <b>1999</b> , 27, 517-520	1.5	1
72	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
71	Landau level laser. <i>Nature Photonics</i> , <b>2021</b> , 15, 875-883	33.9	1
70	Ultrafast coherent electron transport in quantum cascade structures. <i>Springer Series in Chemical Physics</i> , <b>2003</b> , 356-358	0.3	1
69	Optics with Ballistic Electrons: Anti-Reflection Coatings for GaAs-AlGaAs Superlattices. <i>Springer Proceedings in Physics</i> , <b>2001</b> , 743-744	0.2	1
68	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
67	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
66	2.7 $\mu$ m quantum cascade detector: Above band gap energy intersubband detection. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 071104	3.4	1
65	. <i>IEEE Transactions on Power Systems</i> , <b>1993</b> , 8, 1227-1234	7	0
64	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

- 63 Silicon integrated terahertz quantum cascade ring laser frequency comb. *Applied Physics Letters*, **2022**, 120, 091106 3.4 0
- 62 Metropolis Monte Carlo based Relaxation of Atomistic III-V Semiconductor Models. *IFAC-PapersOnLine*, **2015**, 48, 550-555 0.7
- 61 Nanoscale engineering of photoelectron processes in quantum well and dot structures for sensing and energy conversion. *Journal of Physics: Conference Series*, **2017**, 906, 012026 0.3
- 60 Resonant intersubband plasmon induced current in InGaAs quantum wells on GaAs. *Applied Physics Letters*, **2014**, 104, 122101 3.4
- 59 Determination of the wurtzite content and orientation distribution of nanowire ensembles. *Materials Research Society Symposia Proceedings*, **2009**, 1206, 113901
- 58 InGaAs/GaAsSb Heterostructures: Aluminum-Free Intersubband Devices. *Materials Research Society Symposia Proceedings*, **2009**, 1195, 262
- 57 A new aluminum-free material system for intersubband emitters and detectors. *Journal of Physics: Conference Series*, **2009**, 193, 012065 0.3
- 56 Monolithic photonic crystal quantum-cascade laser. *Journal of Physics: Conference Series*, **2009**, 193, 012066 1.3
- 55 Ballistic Electron Emission Microscopy on Quantum Wires. *Physica Status Solidi (B): Basic Research*, **1997**, 204, 386-392 1.3
- 54 Ballistic and dissipative electron transport in semiconductor superlattices. *Physica E: Low-Dimensional Systems and Nanostructures*, **1998**, 3, 152-157 3
- 53 InAs Quantum Dots on Al<sub>x</sub>Ga<sub>1-x</sub>As Surfaces and in an Al<sub>x</sub>Ga<sub>1-x</sub>As Matrix **2008**, 62-83
- 52 Non-bandgap defect modes in the photoresponse of mid-IR photonic crystal detectors. *Journal of Physics Condensed Matter*, **2008**, 20, 454219 1.8
- 51 Nonlinear wave-mixing in twin-waveguide GaAs/AlGaAs quantum cascade lasers. *Journal of Modern Optics*, **2008**, 55, 3211-3217 1.1
- 50 Room temperature capacitance imaging of single sub-surface InAs quantum dots. *Journal of Physics: Conference Series*, **2008**, 109, 012032 0.3
- 49 Polarization dependence of intraband transitions in QDIPs. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 304-306
- 48 Characterization of planar photonic crystals using a quantum well infrared photodetector. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 2916-2925 1.3
- 47 Ballistic electron mean free path of titanylphthalocyanine films grown on GaAs. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2008**, 5, 386-389
- 46 The Influence of Doping on the Performance of Terahertz Quantum-Cascade-Lasers **2007**, WB5

- 45 Force- and bias-dependent contrast in atomic force microscopy based photocurrent imaging on GaAs/AlAs heterostructures. *Semiconductor Science and Technology*, **2007**, 22, 1209-1212 1.8
- 44 Two color, low intensity photocurrent feedback for local photocurrent spectroscopy. *Review of Scientific Instruments*, **2007**, 78, 063706 1.7
- 43 Second-harmonic generation in three-well and bound-to-continuum GaAs-based quantum-cascade lasers. *Applied Physics B: Lasers and Optics*, **2006**, 85, 231-234 1.9
- 42 Compact THz-source based on femtosecond Ti:Sapphire laser and intracavity photoconductive emitter **2003**, 4978, 50
- 41 Ballistic electron microscopy on doped AlAs barriers in the regime of the Mott transition. *Semiconductor Science and Technology*, **2004**, 19, S8-S10 1.8
- 40 Tuned transition from a quantum well to a quantum wire investigated by magnetophonon resonance. *Journal of Applied Physics*, **2004**, 95, 2509-2517 2.5
- 39 Processing of deeply etched GaAs/AlGaAs quantum cascade lasers with grating structures. *Materials Research Society Symposia Proceedings*, **2004**, 829, 290
- 38 New Generation of Photoconductive Few-Cycle Terahertz Emitters. *Springer Series in Optical Sciences*, **2004**, 405-410 0.5
- 37 Direct measurement of intersubband dynamics. *Physica B: Condensed Matter*, **2002**, 314, 259-262 2.8
- 36 LO-phonon assisted hot electron transport in biased superlattices. *Physica B: Condensed Matter*, **2002**, 314, 409-412 2.8
- 35 Narrow electron injector for hot electron spectroscopy. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 13, 728-731 3
- 34 Single mode GaAs quantum cascade laser. *Microelectronic Engineering*, **2002**, 63, 179-184 2.5
- 33 Coherent vs. incoherent charge transport in semiconductor quantum cascade structures **2004**, 5352, 333
- 32 High power second-order distributed feedback quantum cascade lasers. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 977-979 1.6
- 31 Microcavity terahertz quantum-cascade laser **2005**, 6010, 36
- 30 Self Organized InAs Quantum Dots on Patterned GaAs Substrates. *Materials Research Society Symposia Proceedings*, **2005**, 872, 1
- 29 Magnetic field effects and k<sub>||</sub>-filtering in BEEM on GaAs/AlGaAs resonant tunneling structures. *Applied Physics A: Materials Science and Processing*, **2001**, 72, S233-S237 2.6
- 28 Observations of interaction-assisted hopping transport in GaAs/Ga<sub>1-x</sub>Al<sub>x</sub>As quantum wells. *Journal of Luminescence*, **2000**, 91, 7-12 3.8

27	Transport spectroscopy of quantum wires and superlattices. <i>Thin Solid Films</i> , <b>2000</b> , 367, 267-276	2.2
26	Intersubband and interminiband GaAs/AlGaAs quantum cascade lasers at 10 $\mu$ m. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 709-712	3
25	A novel device layout for tunneling spectroscopy of low-dimensional electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 6, 343-347	3
24	$k_{\parallel} \neq 0$ filtering effects in ballistic electron transport through sub-surface GaAs/AlGaAs double barrier resonant tunneling structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 6, 339-342	3
23	GaAs/AlGaAs microresonator quantum cascade lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 29-32	3
22	Ballistic Electron Emission Microscopy on buried GaAs/AlGaAs superlattices. <i>Microelectronic Engineering</i> , <b>1999</b> , 47, 69-71	2.5
21	Biased GaAs/AlGaAs superlattices employed as energy filter for ballistic electron emission microscopy. <i>Surface and Interface Analysis</i> , <b>1999</b> , 27, 542-546	1.5
20	GaAs/AlGaAs intersubband MIR lasers <b>1999</b> , 3828, 32	
19	AlGaAs/GaAs Distributed Feedback Quantum Cascade Lasers. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 607, 141	
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	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
16	Subbands and photoconductivity in two barrier-separated 2D electron gas systems. <i>Surface Science</i> , <b>1990</b> , 228, 399-402	1.8
15	Farfield Measurements of Y-Coupled Quantum Cascade Lasers. <i>Springer Proceedings in Physics</i> , <b>2008</b> , 147-149	0.2
14	Impact of Doping Density in Short-Wavelength InP-Based Strain-Compensated Quantum-Cascade Lasers. <i>Springer Proceedings in Physics</i> , <b>2008</b> , 151-153	0.2
13	Strongly detuned IV-VI microcavity and microdisk resonances: mode splitting and lasing. <i>Springer Proceedings in Physics</i> , <b>2001</b> , 677-678	0.2
12	Correlation of vertical transport and infrared absorption in GaAs/AlGaAs superlattices. <i>Springer Proceedings in Physics</i> , <b>2001</b> , 715-716	0.2
11	Coherent THz emission from optically pumped intersubband plasmons in parabolic quantum wells. <i>Springer Series in Chemical Physics</i> , <b>2001</b> , 203-205	0.3
10	Few-Cycle THz Spectroscopy of Semiconductor Quantum Structures. <i>Springer Proceedings in Physics</i> , <b>2001</b> , 579-582	0.2

- 9 Excitation Dynamics beyond the Slowly-Varying Envelope Approximation. *Springer Series in Chemical Physics*, **2001**, 235-237 0.3
- 8 Terahertz emission from semiconductor nanostructures **2001**, 115-124
- 7 Population dynamics in quantum structures. *Springer Series in Chemical Physics*, **2003**, 392-394 0.3
- 6 FIR Measurements of Zn-Substituted YBCO Ceramics. *Springer Series in Solid-state Sciences*, **1990**, 294-297.4
- 5 Energy Relaxation of Electrons in GaAs/AlGaAs Quantum Wells and Superlattices **1998**, 153-160
- 4 THz Time-Domain Spectroscopy of Intersubband Plasmons **1998**, 173-180
- 3 Quantum Cascade Electroluminescence in the GaAs/AlGaAs Material System **1998**, 17-21
- 2 Driving Intersubband Transitions With THz Pulses. *Springer Series in Chemical Physics*, **1998**, 208-210 0.3
- 1 Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. *IEEE Photonics Journal*, **2020**, 12, 1-8 1.8