

# Gottfried Strasser

## List of Publications by Year in descending order

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701  
papers

10,938  
citations

41258

49  
h-index

56606

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705  
all docs

705  
docs citations

705  
times ranked

7984  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband laser-based mid-infrared spectroscopy employing a quantum cascade detector for milk protein analysis. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130873.	4.0	19
2	2.7 $\times 10^4$ m quantum cascade detector: Above band gap energy intersubband detection. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
3	Silicon integrated terahertz quantum cascade ring laser frequency comb. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	8
4	Structure and mid-infrared optical properties of spin-coated polyethylene films developed for integrated photonics applications. <i>Optical Materials Express</i> , 2022, 12, 2168.	1.6	11
5	Comb Formation In Ultrathin Terahertz Quantum Cascade Ring Lasers. , 2021, , .		0
6	Towards Holistic Control of THz Quantum Cascade Random Lasers. , 2021, , .		0
7	High-speed quantum cascade detector characterized with a mid-infrared femtosecond oscillator. <i>Optics Express</i> , 2021, 29, 5774.	1.7	34
8	Etching of m-plane Zn(Mg)O epitaxial films and its impact on surface leakage currents. <i>Semiconductor Science and Technology</i> , 2021, 36, 035023.	1.0	3
9	High-speed interband cascade infrared photodetectors: photo-response saturation by a femtosecond oscillator. <i>Optics Express</i> , 2021, 29, 14087.	1.7	5
10	Comb operation in terahertz quantum cascade ring lasers. <i>Optica</i> , 2021, 8, 780.	4.8	27
11	Terahertz Optical Machine Learning. , 2021, , .		0
12	Towards Broadband Mid-Infrared Fully Integrated Protein Sensor employing a Quantum Cascade Laser and Quantum Cascade Detector. , 2021, , .		0
13	All-Optical Control of Quantum Cascade Random Lasers Enhanced by Deep Learning. , 2021, , .		0
14	THz electroluminescence from non-polar ZnO quantum cascade structures. , 2021, , .		0
15	Actively mode-locked pulses from a mid-IR quantum cascade laser. , 2021, , .		0
16	Gigahertz Mid-Infrared Interband Cascade Detectors: Photo-Response Saturation by a Femtosecond Oscillator. , 2021, , .		0
17	Terahertz Amplifier with Optical Threshold. , 2021, , .		0
18	Low loss dielectric loaded plasmonic waveguides for sensing applications above nine microns. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	Comb Operation in Terahertz Quantum Cascade Ring Lasers. , 2021, , .		0
20	Engineering the spectral bandwidth of quantum cascade laser frequency combs. Optics Letters, 2021, 46, 3416.	1.7	19
21	Deep learning control of THz QCLs. Optics Express, 2021, 29, 23611.	1.7	6
22	Terahertz Quantum Cascade Amplifier with Optical Threshold. , 2021, , .		0
23	Terahertz Intersubband Electroluminescence from Nonpolar m-Plane ZnO Quantum Cascade Structures. ACS Photonics, 2021, 8, 343-349.	3.2	18
24	Octave-spanning low-loss mid-IR waveguides based on semiconductor-loaded plasmonics. Optics Express, 2021, 29, 43567.	1.7	14
25	Landau level laser. Nature Photonics, 2021, 15, 875-883.	15.6	4
26	Mode-locked short pulses from an 8 $\mu$ m wavelength semiconductor laser. Nature Communications, 2020, 11, 5788.	5.8	37
27	All-optical adaptive control of quantum cascade random lasers. Nature Communications, 2020, 11, 5530.	5.8	19
28	Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. IEEE Photonics Journal, 2020, 12, 1-8.	1.0	0
29	Thermal-Dynamics Optimization of Terahertz Quantum Cascade Lasers with Different Barrier Compositions. Physical Review Applied, 2020, 14, .	1.5	7
30	Resonant tunneling diodes strongly coupled to the cavity field. Applied Physics Letters, 2020, 116, .	1.5	7
31	In-Phase and Anti-Phase Synchronization in a Laser Frequency Comb. Physical Review Letters, 2020, 124, 023901.	2.9	61
32	Singular charge fluctuations at a magnetic quantum critical point. Science, 2020, 367, 285-288.	6.0	55
33	Continuous-wave operation of vertically emitting ring interband cascade lasers at room temperature. Applied Physics Letters, 2020, 116, .	1.5	17
34	Terahertz optical machine learning for object recognition. APL Photonics, 2020, 5, .	3.0	8
35	Ultrashort pulses from a 8 $\mu$ m wavelength semiconductor laser. , 2020, , .		0
36	Interband Cascade and Quantum Cascade Ring Lasers. , 2020, , .		0

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37	Controlling and shaping the THz emission from Quantum Cascade Lasers. , 2020, , .		0
38	Terahertz intersubband electroluminescence from ZnO quantum cascade structures. , 2020, , .		0
39	Evaluation of Material Systems for THz Quantum Cascade Laser Active Regions. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800504.	0.8	11
40	Interband and Quantum Cascade Laser Frequency Combs: From Physics to Monolithic Integration. , 2019, , .		0
41	Optoelectronic Devices Based on ZnO/ZnMgO. , 2019, , .		0
42	Dual-Lasing Channel of a High-Temperature Terahertz Quantum Cascade Laser. , 2019, , .		0
43	Laser Level Selection in Terahertz Quantum Cascade Lasers. , 2019, , .		0
44	Thermal Conductivity for Different Barrier Compositions of Terahertz Quantum Cascade Lasers. , 2019, , .		0
45	Color switching of a terahertz quantum cascade laser. Applied Physics Letters, 2019, 114, 191104.	1.5	8
46	Scattering strength dependence of terahertz random lasers. Journal of Applied Physics, 2019, 125, 151611.	1.1	5
47	Trap-Related Breakdown and Filamentary Conduction in Carbon Doped GaN. Physica Status Solidi (B): Basic Research, 2019, 256, 1800527.	0.7	9
48	Intersubband Polaritons in Triple Barrier Resonant Tunneling Diodes. , 2019, , .		0
49	Ultrastrong coupling experiments with superradiant meta-atoms. , 2019, , .		0
50	Modelling the Spatio-Temporal Dynamics of Quantum Cascade Laser Frequency Combs. , 2019, , .		0
51	Investigation of Electrical Transport in Semiconductor Heterostructure Devices Coupled Strongly to the Light Field. , 2019, , .		0
52	High Frequency Modulation Characteristics of Mid-Infrared Ring Quantum Cascade Lasers. , 2019, , .		1
53	Interband Cascade Lasers for Monolithic and Battery Driven Dual-Comb Spectrometers. , 2019, , .		0
54	Optically Tunable Terahertz Quantum Cascade Random Lasers. , 2019, , .		0

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55	Losses and Fundamental Interaction Properties of THz Meta-Atoms Strongly Coupled to Intersubband Transitions. , 2019, , .		0
56	Suppression of axial growth by boron incorporation in GaAs nanowires grown by self-catalyzed molecular beam epitaxy. Nanotechnology, 2019, 30, 065602.	1.3	1
57	High-frequency breakdown of the integer quantum Hall effect in GaAs/AlGaAs heterojunctions. Physical Review B, 2019, 99, .	1.1	7
58	Coherent injection locking of quantum cascade laser frequency combs. Nature Photonics, 2019, 13, 101-104.	15.6	116
59	Influence of Boron Antisite Defects on the Electrical Properties of MBE-grown GaAs Nanowires. Physica Status Solidi (B): Basic Research, 2019, 256, 1800368.	0.7	2
60	High frequency modulation and (quasi) single-sideband emission of mid-infrared ring and ridge quantum cascade lasers. Optics Express, 2019, 27, 14716.	1.7	14
61	Thermoelectric-cooled terahertz quantum cascade lasers. Optics Express, 2019, 27, 20688.	1.7	33
62	Monolithic frequency comb platform based on interband cascade lasers and detectors. Optica, 2019, 6, 890.	4.8	61
63	Picosecond pulses from a mid-infrared interband cascade laser. Optica, 2019, 6, 1334.	4.8	28
64	Interband cascade laser frequency combs for monolithic and battery driven spectrometers. , 2019, , .		0
65	Short infrared wavelength quantum cascade detectors based on non-polar ZnO/ZnMgO quantum wells. , 2019, , .		0
66	Short infrared wavelength quantum cascade detectors based on m-plane ZnO/ZnMgO quantum wells. Applied Physics Letters, 2018, 113, .	1.5	24
67	Barrier Height Tuning of Terahertz Quantum Cascade Lasers for High-Temperature Operation. ACS Photonics, 2018, 5, 4687-4693.	3.2	35
68	Large-signal modulation in distributed feedback quantum cascade lasers for coherent multiharmonic signal generation. Optical and Quantum Electronics, 2018, 50, 1.	1.5	1
69	Ring quantum cascade lasers with twisted wavefronts. Scientific Reports, 2018, 8, 7998.	1.6	7
70	THz Quantum Cascade Lasers. , 2018, , 597-624.		2
71	Ring Interband Cascade Lasers. , 2018, , .		0
72	Lithography-free positioned GaAs nanowire growth with focused ion beam implantation of Ga. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, .	0.6	10

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73	Incorporation of Sb and As in MBE grown GaAs <sub>x</sub> Sb <sub>1-x</sub> layers. APL Materials, 2017, 5, .	2.2	16
74	High-Power Growth-Robust InGaAs/InAlAs Terahertz Quantum Cascade Lasers. ACS Photonics, 2017, 4, 957-962.	3.2	22
75	Watt-Level Continuous-Wave Emission from a Bifunctional Quantum Cascade Laser/Detector. ACS Photonics, 2017, 4, 1225-1231.	3.2	50
76	Resonant tunneling diodes based on ZnO for quantum cascade structures (Conference Presentation). , 2017, , .		0
77	Quantum cascade detector at 4.3um wavelength in pixel array configuration (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50		
78	Continuous-wave operation of MOVPE grown bi-functional quantum cascade laser/detectors (Conference Presentation). , 2017, , .		0
79	Growth rate dependence of boron incorporation into B <sub>x</sub> Ga <sub>1-x</sub> As layers. Journal of Crystal Growth, 2017, 477, 77-81.	0.7	12
80	Focused ion beam implantation for the nucleation of self-catalyzed III-V nanowires. Microelectronic Engineering, 2017, 177, 93-97.	1.1	8
81	Substrate-emitting ring interband cascade lasers. Applied Physics Letters, 2017, 111, .	1.5	12
82	The limit of quantum cascade detectors: A single period device. Applied Physics Letters, 2017, 111, .	1.5	16
83	Schottky diode formation in GaAs nanowires by heterogeneous contact deposition. Materials Today: Proceedings, 2017, 4, 7101-7106.	0.9	1
84	Influence of thickness on crystallinity in wafer-scale GaTe nanolayers grown by molecular beam epitaxy. AIP Advances, 2017, 7, .	0.6	29
85	Acquisition of spectrally resolved multimode far-fields from terahertz quantum cascade lasers. , 2017, , .		0
86	Short pulse generation and high power emission of Quantum Cascade lasers. , 2017, , .		0
87	Inverse bandstructure engineering of alternative barrier materials for InGaAs-based terahertz quantum cascade lasers. , 2017, , .		0
88	Low effective electron mass InGaAs/InAlAs for high power terahertz quantum cascade lasers. , 2017, , .		0
89	Substrate-emitting ring interband cascade lasers. , 2017, , .		0
90	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	0

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91	Surface emitting ring quantum cascade lasers for chemical sensing. <i>Optical Engineering</i> , 2017, 57, 1.	0.5	8
92	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> , 2016, 3, 20.	0.9	7
93	Random lasers for broadband directional emission. <i>Optica</i> , 2016, 3, 1035.	4.8	86
94	Spectrally resolved far-fields of terahertz quantum cascade lasers. <i>Optics Express</i> , 2016, 24, 25462.	1.7	4
95	InAs based terahertz quantum cascade lasers. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	40
96	Far-Infrared Quantum Cascade Lasers Operating in the AlAs Phonon Reststrahlen Band. <i>ACS Photonics</i> , 2016, 3, 2280-2284.	3.2	34
97	THz quantum cascade lasers with low effective mass active region. , 2016, , .		0
98	Advanced gas sensors based on substrate-integrated hollow waveguides and dual-color ring quantum cascade lasers. <i>Analyst</i> , 2016, 141, 6202-6207.	1.7	20
99	43 $\mu$ m quantum cascade detector in pixel configuration. <i>Optics Express</i> , 2016, 24, 17041.	1.7	33
100	In-situ measurement of bound states in the continuum in photonic crystal slabs (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382		
101	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> , 2016, 24, 6572.	1.7	14
102	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> , 2016, 125, 118-124.	0.8	5
103	Measurement of bound states in the continuum by a detector embedded in a photonic crystal. <i>Light: Science and Applications</i> , 2016, 5, e16147-e16147.	7.7	73
104	Remote Sensing with Commutable Monolithic Laser and Detector. <i>ACS Photonics</i> , 2016, 3, 1794-1798.	3.2	21
105	Mid-infrared surface transmitting and detecting quantum cascade device for gas-sensing. <i>Scientific Reports</i> , 2016, 6, 21795.	1.6	38
106	Ring quantum cascade lasers with grating phase shifts and a light collimating dielectric metamaterial for enhanced infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 2016, 84, 101-105.	1.2	4
107	Normally-off GaN-HEMTs with p-type gate: Off-state degradation, forward gate stress and ESD failure. <i>Microelectronics Reliability</i> , 2016, 58, 177-184.	0.9	23
108	Highly Integrated Gas Sensors based on Bi-functional Quantum Cascade Structures. , 2016, , .		0

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109	On-chip Generation of Infrared Orbital Angular Momentum Beams using a Dielectric Metamaterial. , 2016, , .		0
110	High-power THz quantum cascade lasers. , 2015, , .		0
111	Terahertz Dynamics of a Topologically Protected State: Quantum Hall Effect Plateaus near the Cyclotron Resonance of a Two-Dimensional Electron Gas. Physical Review Letters, 2015, 115, 247401.	2.9	10
112	The influence of whispering gallery modes on the far field of ring lasers. Scientific Reports, 2015, 5, 16668.	1.6	17
113	High performance bi-functional quantum cascade laser and detector. Applied Physics Letters, 2015, 107, .	1.5	24
114	Nucleation of Ga droplets on Si and SiOx surfaces. Nanotechnology, 2015, 26, 315601.	1.3	24
115	InAs/AlAsSb based quantum cascade detector. Applied Physics Letters, 2015, 107, .	1.5	35
116	E-mode AlGaIn/GaN True-MOS, with high-k ZrO <sub>2</sub> gate insulator. , 2015, , .		2
117	Coupled cavity terahertz quantum cascade lasers with integrated emission monitoring. Optics Express, 2015, 23, 3581.	1.7	3
118	Monolithically integrated mid-infrared sensor using narrow mode operation and temperature feedback. Applied Physics Letters, 2015, 106, .	1.5	14
119	Electroluminescence from GaAs/AlGaAs Heterostructures in Strong in-Plane Electric Fields: Evidence for k- and Real-Space Charge Transfer. ACS Photonics, 2015, 2, 1155-1159.	3.2	4
120	Metropolis Monte Carlo based Relaxation of Atomistic III-V Semiconductor Models. IFAC-PapersOnLine, 2015, 48, 550-555.	0.5	0
121	High-Voltage Breakdown and the Gunn Effect in GaAs/AlGaAs Nanoconstrictions. IEEE Nanotechnology Magazine, 2015, 14, 524-530.	1.1	2
122	High temperature performances of normally-off p-GaN gate AlGaIn/GaN HEMTs on SiC and Si substrates for power applications. Microelectronics Reliability, 2015, 55, 1687-1691.	0.9	26
123	From Photonic Crystal to Subwavelength Micropillar Array Terahertz Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 780-791.	1.9	6
124	Quantum cascade detector utilizing the diagonal-transition scheme for high quality cavities. Optics Express, 2015, 23, 6283.	1.7	14
125	Nanoimprinted superlattice metallic photonic crystal as ultraselective solar absorber. Optica, 2015, 2, 743.	4.8	32
126	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. Journal of Applied Physics, 2015, 117, .	1.1	43



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127	Monolithic Absorption Sensors Based on Bi-functional Quantum Cascade Structures. , 2015, , .		0
128	2.5 D photonic crystal quantum cascade detector. , 2014, , .		0
129	All-Electrical Thermal Monitoring of Terahertz Quantum Cascade Lasers. IEEE Photonics Technology Letters, 2014, 26, 1470-1473.	1.3	4
130	High power THz quantum cascade lasers based on novel materials and designs. , 2014, , .		0
131	InGaAs/GaAsSb based two-dimensional electron gases. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, 02C104.	0.6	3
132	Characterizing intra-exciton Coulomb scattering in terahertz excitations. Applied Physics Letters, 2014, 105, 201109.	1.5	3
133	Observation and manipulation of dipole-forbidden exciton transitions in semiconductors. , 2014, , .		0
134	Quantum cascade lasers with a tilted facet utilizing the inherent polarization purity. Optics Express, 2014, 22, 26294.	1.7	5
135	Subwavelength micropillar array terahertz lasers. Optics Express, 2014, 22, 274.	1.7	62
136	Time-resolved spectral characterization of ring cavity surface emitting and ridge-type distributed feedback quantum cascade lasers by step-scan FT-IR spectroscopy. Optics Express, 2014, 22, 2656.	1.7	20
137	Grating-based far field modifications of ring quantum cascade lasers. Optics Express, 2014, 22, 15829.	1.7	19
138	Fixed interface charges between AlGaIn barrier and gate stack composed of <i>in situ</i> grown SiN and Al <sub>2</sub> O <sub>3</sub> in AlGaIn/GaN high electron mobility transistors with normally off capability. Applied Physics Letters, 2014, 104, .	1.5	39
139	On-chip focusing in the mid-infrared: Demonstrated with ring quantum cascade lasers. Applied Physics Letters, 2014, 104, .	1.5	15
140	Magnetic control of Coulomb scattering and terahertz transitions among excitons. Physical Review B, 2014, 89, .	1.1	5
141	High-power, low-lateral divergence broad area quantum cascade lasers with a tilted front facet. Applied Physics Letters, 2014, 104, .	1.5	20
142	Diagonal-transition quantum cascade detector. Applied Physics Letters, 2014, 105, .	1.5	48
143	Plasmonic lens enhanced mid-infrared quantum cascade detector. Applied Physics Letters, 2014, 105, 171112.	1.5	24
144	Resonant intersubband plasmon induced current in InGaAs quantum wells on GaAs. Applied Physics Letters, 2014, 104, 122101.	1.5	0

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145	Reversing the pump dependence of a laser at an exceptional point. Nature Communications, 2014, 5, 4034.	5.8	411
146	Self-Heating in GaN Transistors Designed for High-Power Operation. IEEE Transactions on Electron Devices, 2014, 61, 3429-3434.	1.6	40
147	Monolithically integrated mid-infrared lab-on-a-chip using plasmonics and quantum cascade structures. Nature Communications, 2014, 5, 4085.	5.8	155
148	Resonant metamaterial detectors based on THz quantum-cascade structures. Scientific Reports, 2014, 4, 4269.	1.6	32
149	Electroluminescence from a GaAs/AlGaAs Heterostructure at High Electric Fields: Evidence for Real- & k-Space Transfer. , 2014, , .		0
150	Towards Watt-Level Performance of Terahertz Quantum Cascade Lasers. , 2014, , .		0
151	Scaling of Micropillar Array Terahertz Lasers into the Subwavelength Regime. , 2014, , .		0
152	A mid-infrared Lab-on-a-Chip: Generating, Guiding and Detecting Light in a Monolithic Device. , 2014, , .		0
153	Linearly polarized light from substrate emitting ring cavity quantum cascade lasers. Applied Physics Letters, 2013, 103, 081101.	1.5	21
154	InGaAs/GaAsSb/InP terahertz quantum cascade lasers. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 374-385.	1.2	11
155	Modeling the elastic properties of the ternary III-V alloys InGaAs, InAlAs and GaAsSb using Tersoff potentials for binary compounds. Semiconductor Science and Technology, 2013, 28, 085011.	1.0	9
156	Tunable insulator-quantum Hall transition in a weakly interacting two-dimensional electron system. Nanoscale Research Letters, 2013, 8, 307.	3.1	4
157	Current collapse reduction in InAlGaN/GaN high electron mobility transistors by surface treatment of thermally stable ultrathin in situ SiN passivation. Solid-State Electronics, 2013, 89, 207-211.	0.8	9
158	Ultrastrong coupling of intersubband plasmons and terahertz metamaterials. Applied Physics Letters, 2013, 103, .	1.5	28
159	Statistics and localisation of vertical breakdown in AlGaIn/GaN HEMTs on SiC and Si substrates for power applications. Microelectronics Reliability, 2013, 53, 1444-1449.	0.9	10
160	Photonic crystal slab quantum cascade detector. Applied Physics Letters, 2013, 103, .	1.5	19
161	Fabrication and characterization of terahertz emitting GaAs/AlGaAs micropillar quantum cascade structures in a double metal waveguide. , 2013, , .		0
162	Polarization versatility of surface emitting ring cavity quantum cascade lasers. , 2013, , .		0

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163	Terahertz Detection With Nanoscale Semiconductor Rectifiers. IEEE Sensors Journal, 2013, 13, 24-30.	2.4	1
164	Influence of the facet type on the performance of terahertz quantum cascade lasers with double-metal waveguides. Applied Physics Letters, 2013, 102, 231121.	1.5	17
165	Dopant migration effects in terahertz quantum cascade lasers. Applied Physics Letters, 2013, 102, 201102.	1.5	26
166	Probing scattering mechanisms with symmetric quantum cascade lasers. Optics Express, 2013, 21, 7209.	1.7	35
167	Enhanced light output power of quantum cascade lasers from a tilted front facet. Optics Express, 2013, 21, 15869.	1.7	9
168	Waveguide saturable absorbers at 155 $\mu$ m based on intraband transitions in GaN/AlN QDs. Optics Express, 2013, 21, 27578.	1.7	16
169	Towards nanowire-based terahertz quantum cascade lasers: prospects and technological challenges. Proceedings of SPIE, 2013, , .	0.8	3
170	Monolithically Integrated Mid-Infrared Quantum Cascade Laser and Detector. Sensors, 2013, 13, 2196-2205.	2.1	29
171	Exceptional points in coupled microdisk THz quantum cascade lasers. , 2013, , .		0
172	Parametric polariton scattering in quantum wires and coupled planar microcavities. , 2013, , .		0
173	High power terahertz quantum cascade lasers with symmetric wafer bonded active regions. Applied Physics Letters, 2013, 103, .	1.5	77
174	Multi-cavity terahertz quantum cascade lasers. , 2013, , .		0
175	Magnetic-field assisted performance of InGaAs/GaAsSb terahertz quantum cascade lasers. Applied Physics Letters, 2013, 103, .	1.5	11
176	Atomistic modeling of bond lengths in random and ordered III-V alloys. Journal of Applied Physics, 2013, 114, 123508.	1.1	4
177	Towards mid-infrared on-chip sensing utilizing a bi-functional quantum cascade laser/detector. , 2013, , .		0
178	Optimized photonic crystal design for quantum well infrared photodetectors. Proceedings of SPIE, 2012, , .	0.8	6
179	New concepts and geometries for graphene-based photodetectors. , 2012, , .		0
180	Insulator, semiclassical oscillations and quantum Hall liquids at low magnetic fields. Journal of Physics Condensed Matter, 2012, 24, 405601.	0.7	5

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181	Facet reflectivity reduction of quantum cascade lasers by tilted facets. , 2012, , .		0
182	Extraordinary transmission in metal hole array-photonic crystal hybrid structures. Optics Express, 2012, 20, 17174.	1.7	7
183	THz quantum cascade lasers with wafer bonded active regions. Optics Express, 2012, 20, 23832.	1.7	8
184	Detectivity enhancement in quantum well infrared photodetectors utilizing a photonic crystal slab resonator. Optics Express, 2012, 20, 5622.	1.7	37
185	Random telegraph signal noise in gate current of unstressed and reverse-bias-stressed AlGaIn/GaN high electron mobility transistors. Applied Physics Letters, 2012, 100, .	1.5	12
186	Sub-diffraction-limit semiconductor resonators operating on the fundamental magnetic resonance. Applied Physics Letters, 2012, 100, .	1.5	25
187	Polaritonic spectroscopy of intersubband transitions. Physical Review B, 2012, 86, .	1.1	24
188	Fano effect due to ponderomotive coupling in intersubband response of semiconductor quantum wells. Physical Review B, 2012, 86, .	1.1	1
189	Grating duty-cycle induced enhancement of substrate emission from ring cavity quantum cascade lasers. Applied Physics Letters, 2012, 100, .	1.5	16
190	Buffer-Related Degradation Aspects of Single and Double-Heterostructure Quantum Well InAlN/GaN High-Electron-Mobility Transistors. Japanese Journal of Applied Physics, 2012, 51, 054102.	0.8	2
191	Asymmetrically Doped GaAs/AlGaAs Double-Quantum-Well Structure for Voltage-Tunable Infrared Detection. Japanese Journal of Applied Physics, 2012, 51, 074004.	0.8	9
192	Substrate Emission of Ring Cavity Surface Emitting Quantum Cascade Lasers. , 2012, , .		0
193	Increased Detectivity and Operation Temperature in Photonic Crystal Slab Quantum Well Photodetectors. , 2012, , .		0
194	Free-electron laser spectroscopy of quantum well exciton dynamics. , 2012, , .		0
195	Analyzing Imidazolium Bridging in Nanoparticle Networks Covalently Linked to Silicon Substrates. Journal of Physical Chemistry C, 2012, 116, 9343-9350.	1.5	5
196	Superconducting Microdisk Cavities for THz Quantum Cascade Lasers. IEEE Transactions on Terahertz Science and Technology, 2012, 2, 550-555.	2.0	3
197	Large Rashba effect in GaAsSb/InGaAs RTDs at high temperatures. Journal of the Korean Physical Society, 2012, 60, 1762-1766.	0.3	1
198	High performance InGaAs/GaAsSb terahertz quantum cascade lasers operating up to 142 K. Applied Physics Letters, 2012, 101, 211117.	1.5	53

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199	A bi-functional quantum cascade device for same-frequency lasing and detection. Applied Physics Letters, 2012, 101, 191109.	1.5	39
200	Reliability investigation of the degradation of the surface passivation of InAlN/GaN HEMTs using a dual gate structure. Microelectronics Reliability, 2012, 52, 1812-1815.	0.9	10
201	Upper band operation of active photonic crystal terahertz lasers. , 2012, , .		0
202	Tuning the Electro-optical Properties of Germanium Nanowires by Tensile Strain. Nano Letters, 2012, 12, 6230-6234.	4.5	113
203	Gas nitriding and subsequent oxidation of Ti-6Al-4V alloys. Nanoscale Research Letters, 2012, 7, 21.	3.1	19
204	Microcavity-Integrated Graphene Photodetector. Nano Letters, 2012, 12, 2773-2777.	4.5	753
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206	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. Solid-State Electronics, 2012, 67, 74-78.	0.8	17
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