Gottfried Strasser

List of Publications by Year
in descending order

701	10,938	41258	56606
papers	citations	49 h-index	83 g-index

705	705	705	7984
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microcavity-Integrated Graphene Photodetector. Nano Letters, 2012, 12, 2773-2777.	4.5	753
2	Reversing the pump dependence of a laser at an exceptional point. Nature Communications, 2014, 5, 4034.	5.8	411
3	Ultrastrong Light-Matter Coupling Regime with Polariton Dots. Physical Review Letters, 2010, 105, 196402.	2.9	358
4	Specific Heat of Two-Dimensional Electrons in GaAs-GaAlAs Multilayers. Physical Review Letters, 1985, 54, 1820-1823.	2.9	232
5	Few-Cycle THz Emission from Cold Plasma Oscillations. Physical Review Letters, 1997, 79, 3038-3041.	2.9	191
6	Strong Light-Matter Coupling in Subwavelength Metal-Dielectric Microcavities at Terahertz Frequencies. Physical Review Letters, 2009, 102, 186402.	2.9	171
7	Optical properties of metal-dielectric-metal microcavities in the THz frequency range. Optics Express, 2010, 18, 13886.	1.7	156
8	Monolithically integrated mid-infrared lab-on-a-chip using plasmonics and quantum cascade structures. Nature Communications, 2014, 5, 4085.	5.8	155
9	Direct observation of the LO phonon bottleneck in wide GaAs/AlxGa1âˆ'xAs quantum wells. Physical Review B, 1997, 55, 5171-5176.	1.1	126
10	Terahertz phase modulator. Electronics Letters, 2000, 36, 1156.	0.5	121
11	Coherent injection locking of quantum cascade laser frequency combs. Nature Photonics, 2019, 13, 101-104.	15.6	116
12	Observation of the Intraexciton Autler-Townes Effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>GaAs</mml:mi><mml:mo>/</mml:mo><mml:mi>AlGaAs</mml:mi></mml:math>Semiconductor Quantum Wells. Physical Review Letters, 2010, 105, 167401.	2.9	113
13	Tuning the Electro-optical Properties of Germanium Nanowires by Tensile Strain. Nano Letters, 2012, 12, 6230-6234.	4.5	113
14	Surface plasmon-enhanced photoluminescence from a single quantum well. Applied Physics Letters, 1999, 75, 1577-1579.	1.5	111
15	Diffusion and drift in terahertz emission at GaAs surfaces. Applied Physics Letters, 2003, 83, 5476-5478.	1.5	105
16	Coherent plasmons inn-doped GaAs. Physical Review B, 1998, 58, 4553-4559.	1.1	101
17	Ultrafast intraband spectroscopy of electron capture and relaxation in InAs/GaAs quantum dots. Applied Physics Letters, 2003, 83, 3572-3574.	1.5	99
18	Negative differential resistance in dislocation-free GaNâ•AlGaN double-barrier diodes grown on bulk GaN. Applied Physics Letters, 2006, 88, 172106.	1.5	99

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19	Analysis of degradation mechanisms in lattice-matched InAlN/GaN high-electron-mobility transistors. Journal of Applied Physics, 2009, 106, .	1.1	96
20	Active photonic crystal terahertz laser. Optics Express, 2009, 17, 941.	1.7	90
21	Technology and Performance of InAlN/AlN/GaN HEMTs With Gate Insulation and Current Collapse Suppression Using Zr$hbox{O}_{m 2}$ or Hf $hbox{O}_{m 2}$. IEEE Transactions on Electron Devices, 2008, 55, 937-941.	1.6	86
22	Random lasers for broadband directional emission. Optica, 2016, 3, 1035.	4.8	86
23	GaN/AlGaN intersubband optoelectronic devices. New Journal of Physics, 2009, 11, 125023.	1.2	84
24	High-temperature performance of GaAs-based bound-to-continuum quantum-cascade lasers. Applied Physics Letters, 2003, 83, 4698-4700.	1.5	82
25	High power terahertz quantum cascade lasers with symmetric wafer bonded active regions. Applied Physics Letters, 2013, 103, .	1.5	77
26	GaAs/AlGaAs superlattice quantum cascade lasers at Î»â‰ˆ13â€ŠÎ¼m. Applied Physics Letters, 1999, 75, 1345-1347.	4.7	74
27	Measurement of bound states in the continuum by a detector embedded in a photonic crystal. Light: Science and Applications, 2016, 5, e16147-e16147.	7.7	73
28	Terahertz photonic crystal resonators in double-metal waveguides. Optics Express, 2007, 15, 12418.	1.7	72
29	Gate insulation and drain current saturation mechanism in InAlNâ•GaN metal-oxide-semiconductor high-electron-mobility transistors. Applied Physics Letters, 2007, 91, .	1.5	71
30	Transition Between Coherent and Incoherent Electron Transport inGaAs/GaAlAsSuperlattices. Physical Review Letters, 1998, 81, 3495-3498.	2.9	68
31	Influence of carrier-carrier interaction on time-dependent intersubband absorption in a semiconductor quantum well. Physical Review B, 2004, 70, .	1.1	63
32	MOCVD of HfO₂ and ZrO₂ high-k gate dielectrics for InAlN/AlN/GaN MOS-HEMTs. Semiconductor Science and Technology, 2007, 22, 1272-1275.	1.0	62
33	Photonic crystal slab quantum well infrared photodetector. Applied Physics Letters, 2011, 98, .	1.5	62
34	Subwavelength micropillar array terahertz lasers. Optics Express, 2014, 22, 274.	1.7	62
35	In-Phase and Anti-Phase Synchronization in a Laser Frequency Comb. Physical Review Letters, 2020, 124, 023901.	2.9	61
36	Monolithic frequency comb platform based on interband cascade lasers and detectors. Optica, 2019, 6, 890.	4.8	61

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37	Influence of doping on the performance of terahertz quantum-cascade lasers. Applied Physics Letters, 2007, 90, 101107.	1.5	59
38	Ultrafast Coherent Electron Transport in Semiconductor Quantum Cascade Structures. Physical Review Letters, 2002, 89, 047402.	2.9	58
39	Ultrathin InAlN/AlN Barrier HEMT With High Performance in Normally Off Operation. IEEE Electron Device Letters, 2009, 30, 1030-1032.	2.2	57
40	High-power GaAs/AlGaAs quantum fountain unipolar laser emitting at 14.5 Î¼m with 2.5% tunability. Applied Physics Letters, 1999, 74, 1537-1539.	1.5	55
41	Singular charge fluctuations at a magnetic quantum critical point. Science, 2020, 367, 285-288.	6.0	55
42	Magnetic-field-enhanced quantum-cascade emission. Applied Physics Letters, 2000, 76, 19-21.	1.5	54
43	Short-wavelength intersubband electroabsorption modulation based on electron tunneling between GaNâˆ•AlN coupled quantum wells. Applied Physics Letters, 2007, 90, 223511.	1.5	54
44	Continuous-wave operation of distributed feedback AlAs/GaAs superlattice quantum-cascade lasers. Applied Physics Letters, 2000, 77, 3328-3330.	1.5	53
45	High performance InGaAs/GaAsSb terahertz quantum cascade lasers operating up to 142â€‰K. Applied Physics Letters, 2012, 101, 211117.	1.5	53
46	Surface-emitting distributed feedback quantum-cascade lasers. Applied Physics Letters, 2000, 77, 2086-2088.	1.5	52
47	Single-mode surface-emitting quantum-cascade lasers. Applied Physics Letters, 2005, 86, 211102.	1.5	51
48	Terahertz microcavity quantum-cascade lasers. Applied Physics Letters, 2005, 87, 211112.	1.5	51
49	Low divergence single-mode surface emitting quantum cascade ring lasers. Applied Physics Letters, 2008, 93, .	1.5	51
50	Antireflection coating for miniband transport and Fabryâ€“PÃ©rot resonances in GaAs/AlGaAs superlattices. Applied Physics Letters, 2001, 79, 1486-1488.	1.5	50
51	Watt-Level Continuous-Wave Emission from a Bifunctional Quantum Cascade Laser/Detector. ACS Photonics, 2017, 4, 1225-1231.	3.2	50
52	Gate-lag and drain-lag effects in (GaN)/InAlN/GaN and InAlN/AlN/GaN HEMTs. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 2019-2022.	0.8	49
53	GaAs/AlGaAs distributed feedback quantum cascade lasers. Applied Physics Letters, 2000, 76, 253-255.	1.5	48
54	Terahertz meta-atoms coupled to a quantum well intersubband transition. Optics Express, 2011, 19, 13700.	1.7	48

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55	Diagonal-transition quantum cascade detector. Applied Physics Letters, 2014, 105, .	1.5	48
56	Vertically emitting terahertz quantum cascade ring lasers. Applied Physics Letters, 2009, 95, .	1.5	47
57	Two-dimensional broadband distributed-feedback quantum cascade laser arrays. Applied Physics Letters, 2011, 98, .	1.5	47
58	Room-temperature emission of GaAs/AlGaAs superlattice quantum-cascade lasers at 12.6 Î¼m. Applied Physics Letters, 2002, 80, 1864-1866.	1.5	45
59	Terahertz quantum cascade lasers based on type II InGaAs/GaAsSb/InP. Applied Physics Letters, 2010, 97, 261110.	1.5	45
60	Gain and losses in THz quantum cascade laser with metal-metal waveguide. Optics Express, 2011, 19, 733.	1.7	45
61	Terahertz quantum cascade structures: Intra- versus interwell transition. Applied Physics Letters, 2000, 77, 1928-1930.	1.5	43
62	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
63	Influence of the material parameters on quantum cascade devices. Applied Physics Letters, 2008, 93, 131108.	1.5	41
64	Towards functional group-specific detection in high-performance liquid chromatography using mid-infrared quantum cascade lasers. Journal of Chromatography A, 2001, 934, 123-128.	1.8	40
65	Intersubband photoconductivity at 1.6Î¼m using a strain-compensated AlNâˆ•GaN superlattice. Applied Physics Letters, 2005, 87, 191102.	1.5	40
66	Near infrared absorption and room temperature photovoltaic response in AlNâˆ•GaN superlattices grown by metal-organic vapor-phase epitaxy. Applied Physics Letters, 2006, 89, 041106.	1.5	40
67	Self-Heating in GaN Transistors Designed for High-Power Operation. IEEE Transactions on Electron Devices, 2014, 61, 3429-3434.	1.6	40
68	InAs based terahertz quantum cascade lasers. Applied Physics Letters, 2016, 108, .	1.5	40
69	Intraband transitions in quantum dotâ€“superlattice heterostructures. Physical Review B, 2005, 72, .	1.1	39
70	Thermally induced voltage shift in capacitanceâ€“voltage characteristics and its relation to oxide/semiconductor interface states in Ni/Al₂O₃/InAlN/GaN heterostructures. Semiconductor Science and Technology, 2009, 24, 035008.	1.0	39
71	A bi-functional quantum cascade device for same-frequency lasing and detection. Applied Physics Letters, 2012, 101, 191109.	1.5	39
72	Fixed interface charges between AlGaN barrier and gate stack composed of in situ grown SiN and Al2O3 in AlGaN/GaN high electron mobility transistors with normally off capability. Applied Physics Letters, 2014, 104, .	1.5	39

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73	Ballistic electron spectroscopy of vertical superlattice minibands. Applied Physics Letters, 1997, 70, 649-651.	1.5	38
74	Long-wavelength (/spl lambda/=10 /spl mu/m) quadrupolar-shaped GaAs-AlGaAs microlasers. IEEE Journal of Quantum Electronics, 2000, 36, 458-464.	1.0	38
75	Interferometric study of thermal dynamics in GaAs-based quantum-cascade lasers. Applied Physics Letters, 2003, 82, 1664-1666.	1.5	38
76	Mid-infrared surface transmitting and detecting quantum cascade device for gas-sensing. Scientific Reports, 2016, 6, 21795.	1.6	38
77	Detectivity enhancement in quantum well infrared photodetectors utilizing a photonic crystal slab resonator. Optics Express, 2012, 20, 5622.	1.7	37
78	Mode-locked short pulses from an 8ÂÎ¼m wavelength semiconductor laser. Nature Communications, 2020, 11, 5788.	5.8	37
79	Critical temperature dependence of YBa2Cu3Oy and Y1â˜'xCaxBa2Cu3Oy on carrier concentration. Physica C: Superconductivity and Its Applications, 1993, 206, 291-296.	0.6	36
80	GaAs/AlGaAs-based microcylinder lasers emitting at 10 Î¼m. Applied Physics Letters, 1999, 75, 1045-1047.	1.5	36
81	Sampling a terahertz dipole transition with subcycle time resolution. Optics Letters, 2000, 25, 272.	1.7	35
82	Probing scattering mechanisms with symmetric quantum cascade lasers. Optics Express, 2013, 21, 7209.	1.7	35
83	InAs/AlAsSb based quantum cascade detector. Applied Physics Letters, 2015, 107, .	1.5	35
84	Barrier Height Tuning of Terahertz Quantum Cascade Lasers for High-Temperature Operation. ACS Photonics, 2018, 5, 4687-4693.	3.2	35
85	Energy level engineering in InAs quantum dot nanostructures. Applied Physics Letters, 2002, 81, 2079-2081.	1.5	34
86	Electroluminescence of a quantum dot cascade structure. Applied Physics Letters, 2003, 82, 3862-3864.	1.5	34
87	Subwavelength Microdisk and Microring Terahertz Quantum-Cascade Lasers. IEEE Journal of Quantum Electronics, 2007, 43, 687-697.	1.0	34
88	Terahertz Active Photonic Crystals for Condensed Gas Sensing. Sensors, 2011, 11, 6003-6014.	2.1	34
89	Far-Infrared Quantum Cascade Lasers Operating in the AlAs Phonon Reststrahlen Band. ACS Photonics, 2016, 3, 2280-2284.	3.2	34
90	High-speed quantum cascade detector characterized with a mid-infrared femtosecond oscillator. Optics Express, 2021, 29, 5774.	1.7	34

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91	Terahertz-electroluminescence in a quantum cascade structure. Physica B: Condensed Matter, 1999, 272, 216-218.	1.3	33
92	Spectroscopy in the gas phase with GaAs/AlGaAs quantum-cascade lasers. Applied Optics, 2000, 39, 6926.	2.1	33
93	Pulse-induced quantum interference of intersubband transitions in coupled quantum wells. Applied Physics Letters, 2004, 84, 64-66.	1.5	33
94	43 Î¼m quantum cascade detector in pixel configuration. Optics Express, 2016, 24, 17041.	1.7	33
95	Thermoelectric-cooled terahertz quantum cascade lasers. Optics Express, 2019, 27, 20688.	1.7	33
96	Temperature dependence of far-infrared electroluminescence in parabolic quantum wells. Applied Physics Letters, 1999, 74, 3158-3160.	1.5	32
97	Intersubband absorption dynamics in coupled quantum wells. Applied Physics Letters, 2001, 79, 2755-2757.	1.5	32
98	Excitonic signatures in the photoluminescence and terahertz absorption of aGaAsâ^•AlxGa1â^'xAsmultiple quantum well. Physical Review B, 2005, 71, .	1.1	32
99	Grating-coupled surface emitting quantum cascade ring lasers. Applied Physics Letters, 2008, 93, .	1.5	32
100	Impact of doping on the performance of short-wavelength InP-based quantum-cascade lasers. Journal of Applied Physics, 2008, 103, 033104.	1.1	32
101	Current transport and barrier height evaluation in Ni/InAlN/GaN Schottky diodes. Applied Physics Letters, 2010, 96, 223501.	1.5	32
102	Nanoimprinted superlattice metallic photonic crystal as ultraselective solar absorber. Optica, 2015, 2, 743.	4.8	32
103	Resonant metamaterial detectors based on THz quantum-cascade structures. Scientific Reports, 2014, 4, 4269.	1.6	32
104	High-performance distributed feedback quantum cascade lasers grown by metalorganic vapor phase epitaxy. Applied Physics Letters, 2004, 85, 5529-5531.	1.5	31
105	Growth of branched single-crystalline GaAs whiskers on Si nanowire trunks. Nanotechnology, 2007, 18, 355306.	1.3	31
106	Electrooptical Modulator at Telecommunication Wavelengths Based on GaNâ€“AlN Coupled Quantum Wells. IEEE Photonics Technology Letters, 2008, 20, 724-726.	1.3	31
107	Quantum cascade laser utilising aluminium-free material system: InGaAs/GaAsSb lattice-matched to InP. Electronics Letters, 2009, 45, 1031.	0.5	31
108	Proposal and Performance Analysis of Normally Off $ hbox{n}^{++}$ GaN/InAlN/AlN/GaN HEMTs With 1-nm-Thick InAlN Barrier. IEEE Transactions on Electron Devices, 2010, 57, 2144-2154.	1.6	31

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109	Continuum Wannier-Stark Ladders Strongly Coupled by Zener Resonances in Semiconductor Superlattices. Physical Review Letters, 1999, 82, 3120-3123.	2.9	30
110	Long wavelength (15 and 23 Î¼m) GaAs/AlGaAs quantum cascade lasers. Applied Physics Letters, 2002, 80, 3691-3693.	1.5	30
111	Band structure mapping of photonic crystal intersubband detectors. Applied Physics Letters, 2006, 89, 151107.	1.5	30
112	Free-carrier absorption in quantum cascade structures. Physical Review B, 2012, 85, .	1.1	30
113	Self-aligned coupled cavity GaAs/AlGaAs midinfrared quantum-cascade laser. Applied Physics Letters, 2000, 77, 1077-1079.	1.5	29
114	Ring cavity induced threshold reduction in single-mode surface emitting quantum cascade lasers. Applied Physics Letters, 2010, 96, 031111.	1.5	29
115	Monolithically Integrated Mid-Infrared Quantum Cascade Laser and Detector. Sensors, 2013, 13, 2196-2205.	2.1	29
116	Influence of thickness on crystallinity in wafer-scale GaTe nanolayers grown by molecular beam epitaxy. AIP Advances, 2017, 7, .	0.6	29
117	Ultrastrong coupling of intersubband plasmons and terahertz metamaterials. Applied Physics Letters, 2013, 103, .	1.5	28
118	Picosecond pulses from a mid-infrared interband cascade laser. Optica, 2019, 6, 1334.	4.8	28
119	Mid-infrared electroluminescence in GaAs/AlGaAs structures. Applied Physics Letters, 1997, 71, 2892-2894.	1.5	27
120	Intersubband Transport in Quantum Wells in Strong Magnetic Fields Mediated by Single- and Two-Electron Scattering. Physical Review Letters, 2002, 88, 226803.	2.9	27
121	Fano Signatures in the Intersubband Terahertz Response of Optically Excited Semiconductor Quantum Wells. Physical Review Letters, 2009, 102, 127403.	2.9	27
122	Comb operation in terahertz quantum cascade ring lasers. Optica, 2021, 8, 780.	4.8	27
123	Ultrafast phase-resolved pump-probe measurements on a quantum cascade laser. Applied Physics Letters, 2008, 93, 151106.	1.5	26
124	Dopant migration effects in terahertz quantum cascade lasers. Applied Physics Letters, 2013, 102, 201102.	1.5	26
125	High temperature performances of normally-off p-GaN gate AlGaN/GaN HEMTs on SiC and Si substrates for power applications. Microelectronics Reliability, 2015, 55, 1687-1691.	0.9	26
126	Improved tunable InSb FIR detectors. Infrared Physics, 1991, 32, 439-442.	0.5	25

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127	Strained InGaAs/AlGaAs/GaAs-quantum cascade lasers. Applied Physics Letters, 2000, 76, 3361-3363.	1.5	25
128	Lattice-Matched GaNâ€“InAlN Waveguides at $lambda=1.55 mu$m Grown by Metalâ€“Organic Vapor Phase Epitaxy. IEEE Photonics Technology Letters, 2008, 20, 102-104.	1.3	25
129	Sub-diffraction-limit semiconductor resonators operating on the fundamental magnetic resonance. Applied Physics Letters, 2012, 100, .	1.5	25
130	Quantum cascade lasers with monolithic airâ€“semiconductor Bragg reflectors. Applied Physics Letters, 2000, 77, 1241-1243.	1.5	24
131	Quantum cascade lasers with lateral double-sided distributed feedback grating. Applied Physics Letters, 2005, 86, 111103.	1.5	24
132	Polaritonic spectroscopy of intersubband transitions. Physical Review B, 2012, 86, .	1.1	24
133	Plasmonic lens enhanced mid-infrared quantum cascade detector. Applied Physics Letters, 2014, 105, 171112.	1.5	24
134	High performance bi-functional quantum cascade laser and detector. Applied Physics Letters, 2015, 107, .	1.5	24
135	Nucleation of Ga droplets on Si and SiOxsurfaces. Nanotechnology, 2015, 26, 315601.	1.3	24
136	Short infrared wavelength quantum cascade detectors based on m-plane ZnO/ZnMgO quantum wells. Applied Physics Letters, 2018, 113, .	1.5	24
137	Plasmon-based terahertz emission from quantum well structures. Applied Physics Letters, 1999, 75, 1685-1687.	1.5	23
138	Dephasing in modulation-doped quantum structures probed by THz time-domain spectroscopy. Applied Physics Letters, 2002, 81, 4344-4346.	1.5	23
139	Low bias reactive ion etching of GaAs with a SiCl[sub 4]âˆ•N[sub 2]âˆ•O[sub 2] time-multiplexed process. Journal of Vacuum Science & Technology B, 2007, 25, 839.	1.3	23
140	Hybrid integration of GaAs quantum cascade lasers with Si substrates by thermocompression bonding. Applied Physics Letters, 2008, 92, 051117.	1.5	23
141	Normally-off GaN-HEMTs with p-type gate: Off-state degradation, forward gate stress and ESD failure. Microelectronics Reliability, 2016, 58, 177-184.	0.9	23
142	Coherent terahertz emission from optically pumped intersubband plasmons in parabolic quantum wells. Applied Physics Letters, 2000, 76, 3501-3503.	1.5	22
143	Resonant enhancement of second order sideband generation for intraexcitonic transitions in GaAs/AlGaAs multiple quantum wells. Applied Physics Letters, 2009, 94, 241105.	1.5	22
144	High-Power Growth-Robust InGaAs/InAlAs Terahertz Quantum Cascade Lasers. ACS Photonics, 2017, 4, 957-962.	3.2	22

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145	Linearly polarized light from substrate emitting ring cavity quantum cascade lasers. Applied Physics Letters, 2013, 103, 081101.	1.5	21
146	Remote Sensing with Commutable Monolithic Laser and Detector. ACS Photonics, 2016, 3, 1794-1798.	3.2	21
147	Ballistic electron emission microscopy on biased GaAsâ€“AlGaAs superlattices. Applied Physics Letters, 1998, 73, 3138-3140.	1.5	20
148	Electron refraction in ballistic electron-emission microscopy studied by a superlattice energy filter. Physical Review B, 1998, 58, R7516-R7519.	1.1	20
149	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
150	High-power, low-lateral divergence broad area quantum cascade lasers with a tilted front facet. Applied Physics Letters, 2014, 104, .	1.5	20
151	Advanced gas sensors based on substrate-integrated hollow waveguides and dual-color ring quantum cascade lasers. Analyst, The, 2016, 141, 6202-6207.	1.7	20
152	Wannier-Stark States in Finite Superlattices. Physical Review Letters, 2002, 89, 136803.	2.9	19
153	Quantum Dot Infrared Photodetectors: Photoresponse Enhancement Due to Potential Barriers. Nanoscale Research Letters, 2011, 6, 21.	3.1	19
154	Gas nitriding and subsequent oxidation of Ti-6Al-4V alloys. Nanoscale Research Letters, 2012, 7, 21.	3.1	19
155	Photonic crystal slab quantum cascade detector. Applied Physics Letters, 2013, 103, .	1.5	19
156	Grating-based far field modifications of ring quantum cascade lasers. Optics Express, 2014, 22, 15829.	1.7	19
157	All-optical adaptive control of quantum cascade random lasers. Nature Communications, 2020, 11, 5530.	5.8	19
158	Engineering the spectral bandwidth of quantum cascade laser frequency combs. Optics Letters, 2021, 46, 3416.	1.7	19
159	Broadband laser-based mid-infrared spectroscopy employing a quantum cascade detector for milk protein analysis. Sensors and Actuators B: Chemical, 2022, 350, 130873.	4.0	19
160	Surface-modified GaAs terahertz plasmon emitter. Applied Physics Letters, 2002, 81, 871-873.	1.5	18
161	Resonant Impurity Bands in Semiconductor Superlattices. Physical Review Letters, 2005, 95, 257401.	2.9	18
162	Coherence in Y-coupled quantum cascade lasers. Applied Physics Letters, 2007, 91, 161106.	1.5	18

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163	In-based quantum dots on AlxGa1â^'xAs surfaces. Microelectronic Engineering, 2007, 84, 1443-1445.	1.1	18
164	Ultrafast probing of light-matter interaction in a midinfrared quantum cascade laser. Applied Physics Letters, 2008, 93, 091105.	1.5	18
165	Tree array quantum cascade laser. Optics Express, 2009, 17, 649.	1.7	18
166	Terahertz Intersubband Electroluminescence from Nonpolar m-Plane ZnO Quantum Cascade Structures. ACS Photonics, 2021, 8, 343-349.	3.2	18
167	Time resolved studies of intersubband relaxation in GaAs/AlGaAs quantum wells below the optical phonon energy using a free electron laser. Superlattices and Microstructures, 1996, 19, 17-24.	1.4	17
168	Energy levels of quantum wires determined from magnetophonon resonance experiments. Physical Review B, 1998, 57, 3966-3973.	1.1	17
169	High-power tunable quantum fountain unipolar lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 12-19.	1.3	17
170	Influence of the band-offset on the electronic temperature of GaAs/Al(Ga)As superlattice quantum cascade lasers. Semiconductor Science and Technology, 2004, 19, S110-S112.	1.0	17
171	Biâ€stable behaviour in GaNâ€based resonant tunnelling diode structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 431-434.	0.8	17
172	Surface emission from episide-down short distributed-feedback quantum cascade lasers. Optics Express, 2008, 16, 11920.	1.7	17
173	Current collapse reduction in InAlN/GaN MOS HEMTs by in situ surface pre-treatment and atomic layer deposition of ZrO2 high-k gate dielectrics. Electronics Letters, 2009, 45, 570.	0.5	17
174	Layer-by-layer assembly of titania nanoparticles based ionic networks. Chemical Communications, 2011, 47, 361-363.	2.2	17
175	Influence of processing and annealing steps on electrical properties of InAlN/GaN high electron mobility transistor with Al2O3 gate insulation and passivation. Solid-State Electronics, 2012, 67, 74-78.	0.8	17
176	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
177	The influence of whispering gallery modes on the far field of ring lasers. Scientific Reports, 2015, 5, 16668.	1.6	17
178	Continuous-wave operation of vertically emitting ring interband cascade lasers at room temperature. Applied Physics Letters, 2020, 116, .	1.5	17
179	Ballistic electron transport through titanylphthalocyanine films. Applied Physics Letters, 2007, 90, 092107.	1.5	16
180	Offâ€state breakdown in InAlN/AlN/GaN high electron mobility transistors. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S925.	0.8	16

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181	Electrically controllable photonic molecule laser. Optics Express, 2009, 17, 20321.	1.7	16
182	Grating duty-cycle induced enhancement of substrate emission from ring cavity quantum cascade lasers. Applied Physics Letters, 2012, 100, .	1.5	16
183	Explanation of threshold voltage scaling in enhancement-mode InAlN/AlNâ€“GaN metal oxide semiconductor high electron mobility transistors on Si substrates. Thin Solid Films, 2012, 520, 6230-6232.	0.8	16
184	Waveguide saturable absorbers at 155 Î¼m based on intraband transitions in GaN/AlN QDs. Optics Express, 2013, 21, 27578.	1.7	16
185	Incorporation of Sb and As in MBE grown GaAsxSb1â^'x layers. APL Materials, 2017, 5, .	2.2	16
186	The limit of quantum cascade detectors: A single period device. Applied Physics Letters, 2017, 111, .	1.5	16
187	Monolithically integrated AlGaN/GaN/AlN-based solar-blind ultraviolet and near-infrared detectors. Electronics Letters, 2008, 44, 986.	0.5	15
188	Midinfrared intersubband absorption in InGaAs/GaAsSb multiple quantum wells. Applied Physics Letters, 2009, 95, 041102.	1.5	15
189	On-chip focusing in the mid-infrared: Demonstrated with ring quantum cascade lasers. Applied Physics Letters, 2014, 104, .	1.5	15
190	Terahertz emitter with integrated semiconductor Bragg mirror. Electronics Letters, 2003, 39, 460.	0.5	15
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