

Hermann Detz

List of Publications by Year in descending order

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Version: 2024-02-01

153
papers

3,073
citations

172207

29
h-index

174990

52
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155
all docs

155
docs citations

155
times ranked

3501
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 2.7 $\times 10^4$ m quantum cascade detector: Above band gap energy intersubband detection. Applied Physics Letters, 2022, 120, . | 1.5 | 7 |
| 2 | DFT Study of GaN Clusters Decorated with Rh and Pt Nanoparticles for the Photochemical Reduction of CO ₂ . ACS Applied Energy Materials, 2022, 5, 4684-4690. | 2.5 | 17 |
| 3 | Mesoporous Zirconia Coating for Sensing Applications Using Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectroscopy. Applied Spectroscopy, 2022, 76, 141-149. | 1.2 | 7 |
| 4 | Structure and mid-infrared optical properties of spin-coated polyethylene films developed for integrated photonics applications. Optical Materials Express, 2022, 12, 2168. | 1.6 | 11 |
| 5 | Towards Holistic Control of THz Quantum Cascade Random Lasers. , 2021, , . | | 0 |
| 6 | Hydrogenation of CO ₂ to methanol by the diphosphine- μ -ruthenium(μ) cationic complex: a DFT investigation to shed light on the decisive role of carboxylic acids as promoters. Catalysis Science and Technology, 2021, 11, 3556-3567. | 2.1 | 11 |
| 7 | All-Optical Control of Quantum Cascade Random Lasers Enhanced by Deep Learning. , 2021, , . | | 0 |
| 8 | Low loss dielectric loaded plasmonic waveguides for sensing applications above nine microns. , 2021, , . | | 0 |
| 9 | Deep learning control of THz QCLs. Optics Express, 2021, 29, 23611. | 1.7 | 6 |
| 10 | Octave-spanning low-loss mid-IR waveguides based on semiconductor-loaded plasmonics. Optics Express, 2021, 29, 43567. | 1.7 | 14 |
| 11 | All-optical adaptive control of quantum cascade random lasers. Nature Communications, 2020, 11, 5530. | 5.8 | 19 |
| 12 | Cyclic Carbonate Formation from Epoxides and CO ₂ Catalyzed by Sustainable Alkali Halide- μ -Glycol Complexes: A DFT Study to Elucidate Reaction Mechanism and Catalytic Activity. ACS Omega, 2020, 5, 18064-18072. | 1.6 | 20 |
| 13 | Measuring the Optical Absorption of Single Nanowires. Physical Review Applied, 2020, 14, . | 1.5 | 19 |
| 14 | Thermal-Dynamics Optimization of Terahertz Quantum Cascade Lasers with Different Barrier Compositions. Physical Review Applied, 2020, 14, . | 1.5 | 7 |
| 15 | Resonant tunneling diodes strongly coupled to the cavity field. Applied Physics Letters, 2020, 116, . | 1.5 | 7 |
| 16 | Singular charge fluctuations at a magnetic quantum critical point. Science, 2020, 367, 285-288. | 6.0 | 55 |
| 17 | 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 |
| 18 | Interband and Quantum Cascade Laser Frequency Combs: From Physics to Monolithic Integration. , 2019, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Ring Interband Cascade Lasers for Environmental Monitoring. , 2019, , . | | 0 |
| 20 | Laser Level Selection in Terahertz Quantum Cascade Lasers. , 2019, , . | | 0 |
| 21 | Quasi One-Dimensional Metal-Semiconductor Heterostructures. Nano Letters, 2019, 19, 3892-3897. | 4.5 | 7 |
| 22 | Color switching of a terahertz quantum cascade laser. Applied Physics Letters, 2019, 114, 191104. | 1.5 | 8 |
| 23 | Scattering strength dependence of terahertz random lasers. Journal of Applied Physics, 2019, 125, 151611. | 1.1 | 5 |
| 24 | Coherent injection locking of quantum cascade laser frequency combs. Nature Photonics, 2019, 13, 101-104. | 15.6 | 116 |
| 25 | 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 |
| 26 | Thermoelectric-cooled terahertz quantum cascade lasers. Optics Express, 2019, 27, 20688. | 1.7 | 33 |
| 27 | Monolithic frequency comb platform based on interband cascade lasers and detectors. Optica, 2019, 6, 890. | 4.8 | 61 |
| 28 | Picosecond pulses from a mid-infrared interband cascade laser. Optica, 2019, 6, 1334. | 4.8 | 28 |
| 29 | Barrier Height Tuning of Terahertz Quantum Cascade Lasers for High-Temperature Operation. ACS Photonics, 2018, 5, 4687-4693. | 3.2 | 35 |
| 30 | Ring quantum cascade lasers with twisted wavefronts. Scientific Reports, 2018, 8, 7998. | 1.6 | 7 |
| 31 | THz Quantum Cascade Lasers. , 2018, , 597-624. | | 2 |
| 32 | 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 |
| 33 | Incorporation of Sb and As in MBE grown GaAs _x Sb _{1-x} layers. APL Materials, 2017, 5, . | 2.2 | 16 |
| 34 | High-Power Growth-Robust InGaAs/InAlAs Terahertz Quantum Cascade Lasers. ACS Photonics, 2017, 4, 957-962. | 3.2 | 22 |
| 35 | Growth rate dependence of boron incorporation into B _x Ga _{1-x} As layers. Journal of Crystal Growth, 2017, 477, 77-81. | 0.7 | 12 |
| 36 | Focused ion beam implantation for the nucleation of self-catalyzed III-V nanowires. Microelectronic Engineering, 2017, 177, 93-97. | 1.1 | 8 |

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| 37 | Substrate-emitting ring interband cascade lasers. Applied Physics Letters, 2017, 111, . | 1.5 | 12 |
| 38 | Room-Temperature Quantum Ballistic Transport in Monolithic Ultrascaled Al _x Ge _{1-x} Al Nanowire Heterostructures. Nano Letters, 2017, 17, 4556-4561. | 4.5 | 29 |
| 39 | The limit of quantum cascade detectors: A single period device. Applied Physics Letters, 2017, 111, . | 1.5 | 16 |
| 40 | Schottky diode formation in GaAs nanowires by heterogeneous contact deposition. Materials Today: Proceedings, 2017, 4, 7101-7106. | 0.9 | 1 |
| 41 | Influence of thickness on crystallinity in wafer-scale GaTe nanolayers grown by molecular beam epitaxy. AIP Advances, 2017, 7, . | 0.6 | 29 |
| 42 | Inverse bandstructure engineering of alternative barrier materials for InGaAs-based terahertz quantum cascade lasers. , 2017, , . | | 0 |
| 43 | Surface emitting ring quantum cascade lasers for chemical sensing. Optical Engineering, 2017, 57, 1. | 0.5 | 8 |
| 44 | Enhanced Crystal Quality of Al _x In _{1-x} Sb _{1-y} for Terahertz Quantum Cascade Lasers. Photonics, 2016, 3, 20. | 0.9 | 7 |
| 45 | Random lasers for broadband directional emission. Optica, 2016, 3, 1035. | 4.8 | 86 |
| 46 | Spectrally resolved far-fields of terahertz quantum cascade lasers. Optics Express, 2016, 24, 25462. | 1.7 | 4 |
| 47 | InAs based terahertz quantum cascade lasers. Applied Physics Letters, 2016, 108, . | 1.5 | 40 |
| 48 | Far-Infrared Quantum Cascade Lasers Operating in the AlAs Phonon Reststrahlen Band. ACS Photonics, 2016, 3, 2280-2284. | 3.2 | 34 |
| 49 | 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 |
| 50 | 43 μ m quantum cascade detector in pixel configuration. Optics Express, 2016, 24, 17041. | 1.7 | 33 |
| 51 | Atomistic modeling of interfaces in III ν semiconductor superlattices. Physica Status Solidi (B): Basic Research, 2016, 253, 613-622. | 0.7 | 2 |
| 52 | 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. Solid-State Electronics, 2016, 125, 118-124. | 0.8 | 5 |
| 53 | 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 |
| 54 | Remote Sensing with Commutable Monolithic Laser and Detector. ACS Photonics, 2016, 3, 1794-1798. | 3.2 | 21 |

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|----|--|-----|-----------|
| 55 | Mid-infrared surface transmitting and detecting quantum cascade device for gas-sensing. Scientific Reports, 2016, 6, 21795. | 1.6 | 38 |
| 56 | Ring quantum cascade lasers with grating phase shifts and a light collimating dielectric metamaterial for enhanced infrared spectroscopy. Vibrational Spectroscopy, 2016, 84, 101-105. | 1.2 | 4 |
| 57 | Highly Integrated Gas Sensors based on Bi-functional Quantum Cascade Structures. , 2016, , . | | 0 |
| 58 | The influence of whispering gallery modes on the far field of ring lasers. Scientific Reports, 2015, 5, 16668. | 1.6 | 17 |
| 59 | High performance bi-functional quantum cascade laser and detector. Applied Physics Letters, 2015, 107, . | 1.5 | 24 |
| 60 | Nucleation of Ga droplets on Si and SiOx surfaces. Nanotechnology, 2015, 26, 315601. | 1.3 | 24 |
| 61 | Rhodium Germanide Schottky Barrier Contacts. ECS Journal of Solid State Science and Technology, 2015, 4, P387-P392. | 0.9 | 2 |
| 62 | InAs/AlAsSb based quantum cascade detector. Applied Physics Letters, 2015, 107, . | 1.5 | 35 |
| 63 | Thermal expansion of III-V materials in atomistic models using empirical Tersoff potentials. Electronics Letters, 2015, 51, 1455-1457. | 0.5 | 5 |
| 64 | Monolithically integrated mid-infrared sensor using narrow mode operation and temperature feedback. Applied Physics Letters, 2015, 106, . | 1.5 | 14 |
| 65 | Metropolis Monte Carlo based Relaxation of Atomistic III-V Semiconductor Models. IFAC-PapersOnLine, 2015, 48, 550-555. | 0.5 | 0 |
| 66 | From Photonic Crystal to Subwavelength Micropillar Array Terahertz Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 780-791. | 1.9 | 6 |
| 67 | Quantum cascade detector utilizing the diagonal-transition scheme for high quality cavities. Optics Express, 2015, 23, 6283. | 1.7 | 14 |
| 68 | Monolithic Absorption Sensors Based on Bi-functional Quantum Cascade Structures. , 2015, , . | | 0 |
| 69 | 2.5 D photonic crystal quantum cascade detector. , 2014, , . | | 0 |
| 70 | All-Electrical Thermal Monitoring of Terahertz Quantum Cascade Lasers. IEEE Photonics Technology Letters, 2014, 26, 1470-1473. | 1.3 | 4 |
| 71 | High power THz quantum cascade lasers based on novel materials and designs. , 2014, , . | | 0 |
| 72 | InGaAs/GaAsSb based two-dimensional electron gases. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, 02C104. | 0.6 | 3 |

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| 73 | Quantum cascade lasers with a tilted facet utilizing the inherent polarization purity. Optics Express, 2014, 22, 26294. | 1.7 | 5 |
| 74 | Subwavelength micropillar array terahertz lasers. Optics Express, 2014, 22, 274. | 1.7 | 62 |
| 75 | Grating-based far field modifications of ring quantum cascade lasers. Optics Express, 2014, 22, 15829. | 1.7 | 19 |
| 76 | On-chip focusing in the mid-infrared: Demonstrated with ring quantum cascade lasers. Applied Physics Letters, 2014, 104, . | 1.5 | 15 |
| 77 | High-power, low-lateral divergence broad area quantum cascade lasers with a tilted front facet. Applied Physics Letters, 2014, 104, . | 1.5 | 20 |
| 78 | Diagonal-transition quantum cascade detector. Applied Physics Letters, 2014, 105, . | 1.5 | 48 |
| 79 | Plasmonic lens enhanced mid-infrared quantum cascade detector. Applied Physics Letters, 2014, 105, 171112. | 1.5 | 24 |
| 80 | Resonant intersubband plasmon induced current in InGaAs quantum wells on GaAs. Applied Physics Letters, 2014, 104, 122101. | 1.5 | 0 |
| 81 | Monolithically integrated mid-infrared lab-on-a-chip using plasmonics and quantum cascade structures. Nature Communications, 2014, 5, 4085. | 5.8 | 155 |
| 82 | Resonant metamaterial detectors based on THz quantum-cascade structures. Scientific Reports, 2014, 4, 4269. | 1.6 | 32 |
| 83 | Linearly polarized light from substrate emitting ring cavity quantum cascade lasers. Applied Physics Letters, 2013, 103, 081101. | 1.5 | 21 |
| 84 | InGaAs/GaAsSb/InP terahertz quantum cascade lasers. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 374-385. | 1.2 | 11 |
| 85 | 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 |
| 86 | Photonic crystal slab quantum cascade detector. Applied Physics Letters, 2013, 103, . | 1.5 | 19 |
| 87 | Fabrication and characterization of terahertz emitting GaAs/AlGaAs micropillar quantum cascade structures in a double metal waveguide. , 2013, , . | | 0 |
| 88 | Polarization versatility of surface emitting ring cavity quantum cascade lasers. , 2013, , . | | 0 |
| 89 | 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 |
| 90 | Dopant migration effects in terahertz quantum cascade lasers. Applied Physics Letters, 2013, 102, 201102. | 1.5 | 26 |

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| 91 | Probing scattering mechanisms with symmetric quantum cascade lasers. Optics Express, 2013, 21, 7209. | 1.7 | 35 |
| 92 | Enhanced light output power of quantum cascade lasers from a tilted front facet. Optics Express, 2013, 21, 15869. | 1.7 | 9 |
| 93 | Towards nanowire-based terahertz quantum cascade lasers: prospects and technological challenges. Proceedings of SPIE, 2013, , . | 0.8 | 3 |
| 94 | Monolithically Integrated Mid-Infrared Quantum Cascade Laser and Detector. Sensors, 2013, 13, 2196-2205. | 2.1 | 29 |
| 95 | Exceptional points in coupled microdisk THz quantum cascade lasers. , 2013, , . | | 0 |
| 96 | Parametric polariton scattering in quantum wires and coupled planar microcavities. , 2013, , . | | 0 |
| 97 | High power terahertz quantum cascade lasers with symmetric wafer bonded active regions. Applied Physics Letters, 2013, 103, . | 1.5 | 77 |
| 98 | Multi-cavity terahertz quantum cascade lasers. , 2013, , . | | 0 |
| 99 | Atomistic modeling of bond lengths in random and ordered III-V alloys. Journal of Applied Physics, 2013, 114, 123508. | 1.1 | 4 |
| 100 | Towards mid-infrared on-chip sensing utilizing a bi-functional quantum cascade laser/detector. , 2013, , . | | 0 |
| 101 | Optimized photonic crystal design for quantum well infrared photodetectors. Proceedings of SPIE, 2012, , . | 0.8 | 6 |
| 102 | New concepts and geometries for graphene-based photodetectors. , 2012, , . | | 0 |
| 103 | Facet reflectivity reduction of quantum cascade lasers by tilted facets. , 2012, , . | | 0 |
| 104 | THz quantum cascade lasers with wafer bonded active regions. Optics Express, 2012, 20, 23832. | 1.7 | 8 |
| 105 | Detectivity enhancement in quantum well infrared photodetectors utilizing a photonic crystal slab resonator. Optics Express, 2012, 20, 5622. | 1.7 | 37 |
| 106 | Increased Detectivity and Operation Temperature in Photonic Crystal Slab Quantum Well Photodetectors. , 2012, , . | | 0 |
| 107 | Superconducting Microdisk Cavities for THz Quantum Cascade Lasers. IEEE Transactions on Terahertz Science and Technology, 2012, 2, 550-555. | 2.0 | 3 |
| 108 | Large Rashba effect in GaAsSb/InGaAs RTDs at high temperatures. Journal of the Korean Physical Society, 2012, 60, 1762-1766. | 0.3 | 1 |

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| 109 | High performance InGaAs/GaAsSb terahertz quantum cascade lasers operating up to 142 K. Applied Physics Letters, 2012, 101, 211117. | 1.5 | 53 |
| 110 | A bi-functional quantum cascade device for same-frequency lasing and detection. Applied Physics Letters, 2012, 101, 191109. | 1.5 | 39 |
| 111 | Upper band operation of active photonic crystal terahertz lasers. , 2012, , . | | 0 |
| 112 | Microcavity-Integrated Graphene Photodetector. Nano Letters, 2012, 12, 2773-2777. | 4.5 | 753 |
| 113 | Resonant Metamaterial Detectors Utilizing THz Quantum-Cascade Lasers. , 2012, , . | | 0 |
| 114 | Terahertz Quantum Cascade Lasers with Symmetric Active Regions. , 2012, , . | | 0 |
| 115 | Photonic bandstructure engineering of THz quantum-cascade lasers. Applied Physics Letters, 2011, 99, 201103. | 1.5 | 2 |
| 116 | Improved InGaAs/GaAsSb quantum cascade laser active region designs. Journal of Modern Optics, 2011, 58, 2015-2020. | 0.6 | 4 |
| 117 | Higher order modes in photonic crystal slabs. Optics Express, 2011, 19, 15990. | 1.7 | 9 |
| 118 | Two Dimensional Integration of Ring Cavity Surface Emitting Quantum Cascade Lasers. , 2011, , . | | 0 |
| 119 | Rashba Effect in Non-Magnetic InGaAs/GaAsSb Resonant Tunneling Diodes Enhanced By Transverse Magnetic Field. , 2011, , . | | 0 |
| 120 | InGaAs/GaAsSb Terahertz Quantum Cascade Lasers. , 2011, , . | | 1 |
| 121 | Temperature-induced beam steering of Y-coupled quantum cascade lasers. , 2011, , . | | 0 |
| 122 | Si doping of MBE grown bulk GaAsSb on InP. Journal of Crystal Growth, 2011, 323, 42-44. | 0.7 | 10 |
| 123 | Enhanced Rashba effect in transverse magnetic fields observed on InGaAs/GaAsSb resonant tunneling diodes at temperatures up to 180 K. Applied Physics Letters, 2011, 99, 152107. | 1.5 | 7 |
| 124 | Progress on InGaAs/GaAsSb based terahertz quantum cascade lasers. , 2011, , . | | 0 |
| 125 | Superconducting waveguides for terahertz quantum cascade lasers. , 2011, , . | | 0 |
| 126 | Active photonic crystal terahertz laser operating in upper bands. , 2011, , . | | 0 |

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| 127 | Photonic crystal slab quantum well infrared photodetector. Applied Physics Letters, 2011, 98, . | 1.5 | 62 |
| 128 | Terahertz Active Photonic Crystals for Condensed Gas Sensing. Sensors, 2011, 11, 6003-6014. | 2.1 | 34 |
| 129 | Active photonic crystal terahertz laser operating in higher bands. , 2011, , . | | 0 |
| 130 | Surface-emitting terahertz quantum cascade ring lasers. Proceedings of SPIE, 2010, , . | 0.8 | 0 |
| 131 | Ring resonator-based surface emitting quantum cascade lasers. Proceedings of SPIE, 2010, , . | 0.8 | 0 |
| 132 | Photonic crystal band edge and defect states in the spectral response of intersubband detectors. , 2010, , . | | 0 |
| 133 | An aluminum-free mid-infrared quantum cascade laser. , 2010, , . | | 1 |
| 134 | Grating-Induced Beam-Tuning in Quantum Cascade Ring Lasers. , 2010, , . | | 0 |
| 135 | Nonparabolicity effects in InGaAs/GaAsSb double barrier resonant tunneling diodes. Journal of Applied Physics, 2010, 108, 073707. | 1.1 | 7 |
| 136 | Electrical beam steering of Y-coupled quantum cascade lasers. Applied Physics Letters, 2010, 96, . | 1.5 | 7 |
| 137 | Ring cavity induced threshold reduction in single-mode surface emitting quantum cascade lasers. Applied Physics Letters, 2010, 96, 031111. | 1.5 | 29 |
| 138 | Intersubband optoelectronics in the InGaAs/GaAsSb material system. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C3G19-C3G23. | 0.6 | 13 |
| 139 | MBE Growth of GaAs Whiskers on Si Nanowires. , 2010, , . | | 0 |
| 140 | Terahertz quantum cascade lasers based on type II InGaAs/GaAsSb/InP. Applied Physics Letters, 2010, 97, 261110. | 1.5 | 45 |
| 141 | Terahertz quantum cascade laser in the InGaAs/GaAsSb material system. , 2010, , . | | 0 |
| 142 | Reduced Threshold and High Temperature Operation in Single-Mode Ring Cavity Surface Emitting Quantum Cascade Lasers. , 2010, , . | | 0 |
| 143 | Beam Shaping in Quantum Cascade Ring Lasers. , 2009, , . | | 0 |
| 144 | Midinfrared intersubband absorption in InGaAs/GaAsSb multiple quantum wells. Applied Physics Letters, 2009, 95, 041102. | 1.5 | 15 |

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| 145 | InGaAs/GaAsSb Heterostructures: Aluminum-Free Intersubband Devices. Materials Research Society Symposia Proceedings, 2009, 1195, 262. | 0.1 | 0 |
| 146 | Coherence and beam shaping in quantum cascade lasers. Proceedings of SPIE, 2009, , . | 0.8 | 3 |
| 147 | Quantum cascade laser utilising aluminium-free material system: InGaAs/GaAsSb lattice-matched to InP. Electronics Letters, 2009, 45, 1031. | 0.5 | 31 |
| 148 | Growth of one-dimensional III-V structures on Si nanowires and pre-treated planar Si surfaces. Journal of Crystal Growth, 2009, 311, 1859-1862. | 0.7 | 5 |
| 149 | Improving size distribution of InAs quantum dots for intersubband devices. Journal of Crystal Growth, 2009, 311, 1799-1802. | 0.7 | 1 |
| 150 | Vertically emitting terahertz quantum cascade ring lasers. Applied Physics Letters, 2009, 95, . | 1.5 | 47 |
| 151 | A new aluminum-free material system for intersubband emitters and detectors. Journal of Physics: Conference Series, 2009, 193, 012065. | 0.3 | 0 |
| 152 | ÄEerenkov-type phase-matched second-harmonic emission from GaAs^•AlGaAs quantum-cascade lasers. Applied Physics Letters, 2008, 92, 111114. | 1.5 | 7 |
| 153 | Nonlinear wave-mixing in twin-waveguide GaAs/AlGaAs quantum cascade lasers. Journal of Modern Optics, 2008, 55, 3211-3217. | 0.6 | 0 |