

- [2019] -----
- T. Dougakiuchi and T. Edamura, "High-speed quantum cascade detector with frequency response of over 20 GHz," *Proc.of SPIE*, vol.11197, 111970R-1, 2019.
  - K. Fujita, *et al.*, "Sub-terahertz and terahertz generation in long-wavelength quantum cascade lasers," *Nanophotonics 2019*, Art no. 238, pp. 2235-2241, Nov. 2019.
  - M. Hitaka, *et al.*, "Stacked quantum cascade laser and detector structure for a monolithic mid-infrared sensing device," *Appl. Phys. Lett.*, vol. 115, no. 16, Oct. 2019.
  - A. Nakanishi, *et al.*, "Terahertz imaging with room-temperature terahertz difference-frequency quantum-cascade laser sources," *Optics Express*, vol. 27, issue 3, pp. 1884-1893, 2019.
- [2018] -----
- K. Futita, *et al.*, "Recent progress in terahertz difference-frequency quantum cascade laser sources," *Nanophotonics 2018*, vol 7, no 11, pp 1795-1817 Sep. 2018.
  - T. Dougakiuchi et al., "Continuous multispectral imaging of surface phonon polaritons on silicon carbide with an external cavity quantum cascade laser," *Appl. Phys. Express*, vol. 11, no 3, Feb. 2018, Art no. 032001.
- [2017] -----
- K. Fujita *et al.*, "Low-threshold room-temperature continuous-wave operation of a terahertz difference-frequency quantum cascade laser source." *Appl. Phys. Exp.*, vol. 10, no. 8 Jul. 2017. 082102.
- [2016] -----
- K. Fujita *et al.*, "Ultra-broadband room-temperature terahertz quantum cascade laser sources based on difference frequency generation," *Opt. Express*, vol. 24, no. 14, pp. 16357-16365, Jul. 2016.
  - T. Dougakiuchi *et al.*, "High photoresponse in room temperature quantum cascade detector based on coupled quantum well design," *Appl. Phys. Lett.*, vol. 109, no. 26, Dec. 2016, Art no. 261107.
- [2015] -----
- K. Fujita *et al.*, "Terahertz generation in mid-infrared quantum cascade lasers with a dual-upper-state active region," *Appl. Phys. Lett.*, vol. 106, no. 25, Jun. 2015, Art no. 251104.
- [2014] -----
- T. Dougakiuchi *et al.*, "Broadband tuning of continuous wave quantum cascade lasers in long wavelength ( $> 10\mu\text{m}$ ) range," *Opt. Express*, vol. 22, no. 17, pp. 19930-19935, Aug. 2014.
  - M. Yamanishi *et al.*, "Electrical flicker-noise generated by filling and emptying of impurity states in injectors of quantum-cascade lasers," *J. Appl. Phys.*, vol. 116, no. 18, Nov. 2014, Art no. 183106.

- [2012] -----
- K. Fujita *et al.*, "Indirectly pumped 3.7 THz InGaAs/InAlAs quantum-cascade lasers grown by metal-organic vapor-phase epitaxy," *Opt. Express*, vol. 20, no. 18, pp. 20647-20658, Aug. 2012.
  - K. Fujita *et al.*, "Extremely temperature-insensitive continuous-wave quantum cascade lasers," *Appl. Phys. Lett.*, vol. 101, no. 18, Oct. 2012, Art no. 181111.
- [2011] -----
- K. Fujita *et al.*, "Extremely broad-gain ( $\Delta\lambda/\lambda_0 \sim 0.4$ ), temperature-insensitive ( $T_0 \sim 510$ K) quantum cascade lasers," *Opt. Express*, vol. 19, no. 3, pp. 2694-2701, Jan. 2011.
  - K. Fujita *et al.*, "High-performance quantum cascade lasers with wide electroluminescence ( $\sim 600$  cm $^{-1}$ ), operating in continuous-wave above 100 °C," *Appl. Phys. Lett.*, vol. 98, no. 23, Jun. 2011, Art no. 231102.
  - T. Dougakiuchi *et al.*, "Broadband Tuning of External Cavity Dual-Upper-State Quantum-Cascade Lasers in Continuous Wave Operation," *Appl. Phys. Express*, vol. 4, no. 10, Oct. 2011, Art no. 102101.
- [2010] -----
- K. Fujita *et al.*, "High-Performance  $\lambda \sim 8.6$  μm Quantum Cascade Lasers With Single Phonon-Continuum Depopulation Structures," *IEEE J. Quantum Electron.*, vol. 46, no. 5, pp. 683-688, May 2010.
  - K. Fujita *et al.*, "High-performance, homogeneous broad-gain quantum cascade lasers based on dual-upper-state design," *Appl. Phys. Lett.*, vol. 96, no. 24, Jun. 2010, Art no. 241107.
  - K. Fujita *et al.*, "Extremely high  $T_0$ -values ( $\sim 450$  K) of long-wavelength ( $\sim 15$ μm), low-threshold-current-density quantum-cascade lasers based on the indirect pump scheme," *Appl. Phys. Lett.*, vol. 97, no. 20, Nov. 2010, Art no. 201109.
- [2008] -----
- M. Yamanishi *et al.*, "Theory of the Intrinsic Linewidth of Quantum-Cascade Lasers: Hidden Reason for the Narrow Linewidth and Line-Broadening by Thermal Photons," *IEEE J. Quantum Electron.*, vol. 44, no. 1, pp. 12-29, Jan. 2008.
  - M. Yamanishi *et al.*, "Indirect pump scheme for quantum cascade lasers: dynamics of electron-transport and very high  $T_0$ -Values," *Opt. Express*, vol.16, no. 25, pp. 20748-20758, Dec. 2008.

[2007] -----

- K. Fujita *et al.*, "Room temperature, continuous-wave operation of quantum cascade lasers with single phonon resonance-continuum depopulation structures grown by metal organic vapor-phase epitaxy," *Appl. Phys. Lett.*, vol. 91, no. 14, Oct. 2007, Art no. 141121.

The sixth edition: 2020/4