Special Issue

Mid-Infrared Quantum Cascade Lasers

Message from the Guest Editors

The mid-infrared range (MIR) of the electromagnetic spectrum (2-15 μm) is crucial for a large number of applications such as telecommunication, molecular spectroscopy, medicine, and security. Since their first demonstration in 1994, quantum cascade lasers (QCLs) have become the most promising semiconductor sources of MIR radiation. QCL technology is quite mature, but it still faces unresolved issues. With this Special Issue, we compile state-of-the-art research on mid-infrared QCLs. We are going to summarize the latest developments in theory, design, fabrication technology, measurement, and control techniques, and —last but not least—in QCL applications. We look forward to your manuscripts (reviews as well as original research papers).

Guest Editors

Dr. Emilia Pruszynska-Karbownik
Institute of Physics, Lodz University of Technology, Lodz, Poland

Prof. Dr. Dayan Ban
Department of Electrical and Computer Engineering, University of Waterloo, Waterloo, ON N2L 3G1, Canada

Deadline for manuscript submissions

closed (31 May 2022)

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mdpi.com/si/84083

Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

Editor-in-Chief

Prof. Dr. Nelson Tansu
School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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