Special Issue

Mid-Infrared Sensors Based On Semiconductor Lasers and Photonic Integrated Circuits (PICs)

Message from the Guest Editor

This Special Issue focuses on advancements made in both these areas. The main aim is to track the progress over the wide mid-infrared wavelength band (2–12 μm) in the performance of sensing solutions employing semiconductor lasers and PICs. Articles detailing integration of mid-infrared III-V devices with passive waveguides are also of interest in this Special Issue. Potential topics for this Special Issue include but are not limited to:

- Sensing schemes using Type I and Type II laser diodes;
- Sensing schemes using interband cascade lasers;
- Sensing schemes using quantum cascade lasers;
- Tunable laser diode spectroscopy in the mid-infrared;
- Wavelength modulation spectroscopy in the mid-infrared;
- Evanescent waveguide sensors;
- Slot waveguide-based sensors;
- Novel waveguide geometries for sensing applications;
- Spectrometers based on PICs;
- Mid-infrared photothermal sensors;
- Mid-infrared photoacoustic sensors;
- Mid-infrared plasmonic sensors;
- Integration of mid-infrared light sources on passive waveguides.

Guest Editor

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Deadline for manuscript submissions

closed (29 February 2020)

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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