



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

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Deadline for manuscript
submissions:

closed (29 February 2020)

Message from the Guest Editor

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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