# Special Issue

# Recent Advances in Infrared Photodetectors

### Message from the Guest Editor

III-V InGaAs photodetectors have been serving as the key element for ground and space light sensing applications in the short-wavelength infrared (SWIR) band. This Special Issue aims to address issues that involve the materials as well as the device design, the processing technology, the characterization, and the applications of InGaAs photodetectors featuring novel structures, higher performances and new functionalities. This includes:

- Short-wavelength infrared (SWIR) InGaAs photodetectors;
- Lattice-mismatch material design and epitaxial growth;
- Extended wavelength InGaAs photodetectors;
- Misfit dislocation mitigation technologies ;
- InGaAs focal plane arrays (FPAs);
- Large array format and fine pixel pitch FPAs;
- SWIR read-out integrated circuit (ROIC) designs;
- Application exploration of InGaAs photodetectors;
- Polarization-integrated InGaAs photodetectors;
- SWIR spectral imaging;
- NIR-I and NIR-II biology and medical diagnostics;
- SWIR image processing.

### Guest Editor

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### Deadline for manuscript submissions

closed (15 January 2024)

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## Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

## Editor-in-Chief

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