Special Issue

Advanced Infrared Technology and Applications

Message from the Guest Editors

There are lots of applications for infrared light in the chemical, biological, and optoelectronic fields. Due to the high demand, suitable infrared-range materials, such as 2D materials and infrared quantum materials, are still being developed. In the meantime, the use of infrared light in photodetectors, thermography, and LEDs is being studied with the development of new materials for performance improvement. This Special Issue on "Advanced Infrared Technology and Applications" encourages research ranging from the fundamentals of infrared materials to cutting-edge research uses of infrared light in a variety of fields, in the form of regular and review papers.

- The development of infrared light-absorbing and -emitting materials;
- The advancement of infrared light spectroscopy, such as atomic force microscopy-based infrared spectroscopy and ultrafast infrared light spectroscopy;
- The application of infrared light-absorbing/emitting materials in optoelectronic devices;
- The application of infrared light in the biological and medicinal domains;
- The development of infrared light-range photothermal materials and applications, including thermophotovoltaics.

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Deadline for manuscript submissions

closed (31 January 2024)

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Message from the Editor-in-Chief

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.

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