Special Issue

Photonics-Based Photoelectric Detection and Sensing Techniques

Message from the Guest Editor

In recent years, photonic sensors have played a pivotal role in driving remarkable advancements across a wide spectrum of applications, including imaging, spectroscopy, communication, environmental monitoring, and healthcare. This Special Issue is designed to serve as a comprehensive platform for the exchange of knowledge, ideas, and breakthroughs in various facets of photoelectric detection and sensing, encompassing photodetectors, X-ray detectors, photoelectric sensors, fiber optics, and quantum sensors across diverse sensing applications. Topics of interest include, but are not limited to, the following:

- Photodetectors and photodiodes for sensing applications;
- Photonic sensors for environmental monitoring;
- Imaging techniques using photonics;
- Fiber-optic sensors and their applications;
- Plasmonic and metamaterial-based sensing;
- Quantum sensing and quantum photonics;
- Optoelectronic devices for medical diagnostics;
- Non-invasive sensing methods;
- X-ray detectors for imaging;
- Photonics for industrial and agricultural sensing.

Guest Editor

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Deadline for manuscript submissions

closed (1 May 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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