

Special Issue

Photonic Structures for Biosensors: Technology and Applications

Message from the Guest Editors

This Special Issue aims to collect recent advances in photonic structures, components and circuits used for the development of novel optical sensors, and biosensing devices addressing challenges in the fields of medical diagnostics, point-of-need analysis, food safety, quality assessment, and environmental monitoring. Topics may include but are not limited to the following:

- Novel structures and transducers for optical sensing;
- Plasmonic and nanoplasmonic sensors;
- Photonic evanescent-wave sensors (e.g., interferometric sensors, microring resonators, etc.);
- Photonic integrated circuit (PIC)-based biosensors;
- Lab-on-chip devices;
- Microfluidic-based PICs/optofluidic platforms;
- Fiber-optic sensors;
- Immunoassay, small molecule, and RNA/DNA detection optical biosensors;
- Multimodal and multiplexed photonic biosensing platforms;
- Photonic solutions for label-free determinations.

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Deadline for manuscript submissions

closed (28 February 2021)



Sensors

an Open Access Journal
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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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Message from the Editor-in-Chief

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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