

## 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.

### Guest Editors

Dr. Dimitris Tsiokos

1) Bialoom Ltd, 72, 28th Octovriou Avenue, Office 301, Engomi, 2414 Nicosia, Cyprus

2) WinPhos Research Group, Aristotle University of Thessaloniki, Center for Interdisciplinary Research and Innovation, Thessaloniki, 57001, Greece

Dr. Eleni Makarona

Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Patriarchou Grigoriou E' and 27 Neapoleos Street, 15310 Aghia Paraskevi, Greece

### Deadline for manuscript submissions

closed (28 February 2021)



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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