

Special Issue

Photonic Biosensors: Detection, Analysis and Medical Diagnostics

Message from the Guest Editor

This Special Issue will focus on the latest advances in photonic devices for biosensing applications to improve the precision of medical tests aiming at developing the next generation of point-of-care instruments to translate in clinical applications based on a photonic detection scheme. Topics of interest include, but are not limited to the following:

- Novel photonic devices and platforms able to improve the sensitivity, accuracy and precision of biomedical analysis and diagnostics;
- Use of photonic biosensors to investigate novel biological and medical studies hitherto not possible to investigate for the limitation of current techniques, i.e., in cancer applications, neurodegenerative and cardiovascular disease, bacterial and viral infections, etc;
- New strategies to integrate photonic devices in portable instruments to facilitate their use by non-expert users with cost-efficient solutions;
- The combination of photonic biosensors with microfluidics and different technologies (i.e., electrical, acoustics, magnetic) to enable multiparameter and multiplexed sensing.

Guest Editor

Dr. Donato Conteduca

School of Physics, Engineering and Technology, University of York,
Heslington, York YO10 5DD, UK

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Biosensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biosensors@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry "Ugo Schiff", University of Florence, Via della
Laustruccia 3, 50019 Sesto Fiorentino, Italy

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