

Special Issue

Optical Biosensors for Health, Food and Environment (Bio)markers

Message from the Guest Editors

This Special Issue is dedicated to the topic "Optical Biosensors for Health, Food, and Environment (Bio)markers". Optical biosensors are an important tool for achieving low-cost and sensitive determinations in situ, in a wide range of applications of interest to our society. The optical approach itself is very broad, including a wide range of important techniques, such as surface plasmon resonance (SPR), reflectance, surface-enhanced Raman spectroscopy (SERS), colorimetry, optofluidics, photonic sensing, and fluorescence, among others. This Special Issue aims to highlight the new generation of optical biosensors based on new sensing materials, new strategies, and/or novel engineering approaches, covering applications in food, health, or the environment. For example, this includes monitoring biomarkers for disease diagnosis and follow-up, food safety ensurance, and surveillance systems to spot epidemiologic spread of diseases through water or other environmental vectors. In this Special Issue, we hope to gather and share recent and crucial insights into improvements of optical biosensors and their advances toward real applications.

Guest Editors

Dr. Maria Goreti Sales

BioMark Sensor Research/ ISEP (Instituto Superior de Engenharia do Porto), Centre of Biological Engineering, 4249-015 Porto, Portugal

Dr. Manuela F. Frasco

BioMark Sensor Research / UC & ISEP, Porto, Portugal

Dr. Joana Rafaela Lara Guerreiro

BioMark@ISEP, School of Engineering, Polytechnique School of Porto, 4200-072 Porto, Portugal

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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
Lastruccia 3, 50019 Sesto Fiorentino, Italy

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