



Biosensors for Food Safety & Quality Inspection

Guest Editors:

Dr. Tatevik Chalyan

Brussels Photonics Team,
Department of Applied Physics
and Photonics, Vrije Universiteit
Brussel, 1050 Brussels, Belgium

Dr. Sara Tombelli

Institute of Applied Physics (IFAC),
National Research Council (CNR),
50019 Sesto Fiorentino, Italy

Deadline for manuscript
submissions:

closed (15 April 2022)

Message from the Guest Editors

Dear Colleagues,

The goal of this Special Issue “Biosensors for Food Safety and Quality Inspection” is to bring together novel biosensing technologies and optical detection approaches for monitoring food safety and quality. Moreover, we encourage researchers to demonstrate new applications of optical biosensors in the food supply chain, from production, to cultivation, to consumption. A wide range of possible analytes that are present in food enable the development of various types of optical biosensors based on waveguides, fibers, photonic crystals, nanoparticles, and free-form optics, combined with chemical surface functionalization techniques and/or biological recognition elements. Topics of interest include, but are not limited to the following:

- Optical biosensor
- Interferometers
- Microring resonators
- Raman spectroscopy
- Fluorescence
- Aptamers
- Antibodies
- Fiber gratings
- Nanoparticles
- Photonic crystals
- Mycotoxins
- Limit of detection
- Food quality





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry “Ugo Schiff”, University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (*Chemistry, Analytical*) / CiteScore - Q1 (*Engineering (miscellaneous)*)

Contact Us

Biosensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biosensors
biosensors@mdpi.com
[X@Biosensors_MDPI](https://twitter.com/Biosensors_MDPI)