



Label-Free Biosensors and Chemical Sensors

Guest Editors:

Dr. Despina Moschou

Department of Electronic and
Electrical Engineering, University
of Bath, Bath BA2 7AY, UK

Dr. Pedro Estrela

Department of Electrical and
Electronic Engineering, University
of Bath, Bath BA2 7AY, UK

Deadline for manuscript
submissions:

closed (31 August 2018)

Message from the Guest Editors

Until recently, the employment of labels (radioisotope, fluorescent dyes, enzymes) has been considered as a pre-requisite in monitoring biological interactions. While label strategies seem straightforward in biological and chemical sensor technology, they suffer from inherent disadvantages: Impact on labelled molecule bioactivity, variability when tagging different molecules, increased cost, increased assay time, increased complexity for microsystem implementations. Label-free approaches on the other hand, reduce biochemical interaction to the minimum required: Molecule/cell A and molecule/cell B. Owing to this specific advantage, label-free sensors are increasingly being pursued both by researchers and by the relevant industries as an alternative.

The purpose of this Special Issue in “Label-Free Biosensors and Chemical Sensors” is to present the state-of-the-art of this wide field, including all relevant transduction approaches: Optical, electronic, mechanical.

- Label-free assay
- Biosensor
- Chemical sensor
- High-throughput
- Miniaturization





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Nicole Jaffrezic-Renault

Institute of Analytical Sciences,
UMR CNRS 5280, Department
LSA, 5 Rue de La Doua, 69100
Villeurbanne, France

Message from the Editor-in-Chief

Chemosensors is an international, scientific, open access journal on the science and technology of chemical sensors published by MDPI. All articles are released on the internet immediately following acceptance. The journal publishes reviews, regular research papers, and communications. The scope of Chemosensors includes:

New chemical sensors design

Electrochemical devices, potentiometric sensor, redox electrode

Optical chemical sensors

Analytical methods

Environmental monitoring

Gas detectors

electronic nose, etc.

Author Benefits

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

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [CAPus / SciFinder](#), [Inspec](#), and [other databases](#).

Journal Rank: JCR - Q1 (*Instruments & Instrumentation*) / CiteScore - Q2 (*Analytical Chemistry*)

Contact Us

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

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

mdpi.com/journal/chemosensors
chemosensors@mdpi.com
[X@chemosens_MDPI](https://twitter.com/chemosens_MDPI)