Special Issue

Label-Free Biosensors and Chemical Sensors

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

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)

Chemosensors

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 7.3

mdpi.com/si/9831

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

mdpi.com/journal/chemosensors

Chemosensors

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 7.3

mdpi.com/journal/chemosensors

About the Journal

Message from the Editorial Board

Chemosensors continues to grow as a forum for all manners of sensing that encompass chemistry. *Chemosensors* is published in open access format – all articles and content are released on the internet immediately following acceptance, thus allowing unlimited access to the content as soon as it is published. We would be happy to have you join our growing list of authors.

Editors-in-Chief

Prof. Dr. Jin-Ming Lin
Beijing Key Laboratory of Microanalytical Methods and Instrumentation, Department of Chemistry, Tsinghua University, Beijing 100084, China

Prof. Dr. Nicole Jaffrezic-Renault
Institute of UTINAM, University of Franche-Comté, UMR-CNRS 6213, 16 Gray Road, 25030 Besançon, France

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Engineering Village and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Physical and Theoretical Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).

MDPI