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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

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Message from the Guest Editors

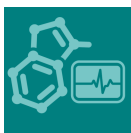
Until recently, the employment of labels (radioisotope, fluorescent dyes, enzymes) has been considered as a prerequisite in monitoring biological interactions. While label strategies seem straightforward in biological and chemical sensor technology, they suffer from inherent disadvantages: Impact on 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



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Editors-in-Chief

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

Prof. Dr. Jin-Ming Lin

Department of Chemistry, Beijing
Key Laboratory of Microanalytical
Methods and Instrumentation,
Tsinghua University, Beijing
100084, China

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Chemosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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