



an Open Access Journal by MDPI

# Bioprocess Monitoring, Measurement, and Control by Biosensor-Based Technologies

Guest Editors:

#### Prof. Dr. Yinlan Ruan

School of Physical Sciences, The University of Adelaide, Adelaide, SA 5005, Australia

#### **Dr. Robert Horvath**

Nanobiosensorics Laboratory, Institute for Technical Physics and Materials Science, Centre for Energy Research, Hungarian Academy of Sciences, H-1120 Budapest, Hungary

Deadline for manuscript submissions: closed (28 February 2022)



Message from the Guest Editors

Dear Colleagues,

Online analysis of bioprocesses is of increasing interest because it helps to reduce the time delay for offline sample preparation and following analyses via conventional methods. Continuous monitoring of reaction components is prerequisite for the direct control а of biotransformations. This Special Issue encompasses a broad range of optical spectral sensors including UV/NIR/MIR spectroscopy, Raman spectroscopy, fluorescence spectroscopy, optical waveguide sensing and surface plasmon resonance, and their at-line and online applications. Novel optics or fiber/waveguide probes with improved collection efficiency are welcome. The application scenarios include but are not limited to the production of pharmaceuticals, chemicals, fuels, and food. The main topic is related but not limited to:

- online monitoring
- bioprocessing
- ultraviolet spectroscopy
- near-infrared spectroscopy
- Mid-IR infrared spectroscopy
- raman spectroscopy
- surface plasmon resonance
- optical waveguide resonances

pecialsue

- data analysis
- chemometrics
- machine learning

mdpi.com/si/50282





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, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/biosensors biosensors@mdpi.com X@Biosensors\_MDPI