



an Open Access Journal by MDPI

# Advancement in Optical Biosensor for Bioassay and Detection of New Pollutants

Guest Editor:

#### Prof. Dr. Feng Long

School of Environment and Natural Resource, Renmin University of China, Beijing 100872, China

Deadline for manuscript submissions: **30 September 2024** 

### Message from the Guest Editor

Dear Colleagues,

New pollutants (NPs) are toxic and harmful chemical substances discharged into the environment with biological toxicity, environmental persistence, and bioaccumulation. The rapid, high-frequency, and onsite/on-line quantitative detection of NPs is essential for early warning of pollution accident, reducing population mortality, and taking remedial action as and when the need arises.

Optical biosensors represent an attractive solution because they embrace great potential for highly sensitive and specific, real-time, high-frequency detection of pollutants in complex matrices with minimal sample preparation. This Special Issue provides a platform on the mechanisms for optical biosensing and the recent development of bioreceptors that enhance the rapid, easy, and accurate analysis of NPs. The advantages and challenges for the sensitivity, selectivity, and durability of optical biosensors are discussed, together with the opportunities and development strategies. Both original research papers, short communications, and review articles are welcome.

**Special**sue



mdpi.com/si/187300





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), CAPlus / 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