Special Issue

Microfluidics for Biosensing

Message from the Guest Editors

Dear Collegues, Rapid, accurate, real-time, on-site and multiplexed detection and characterization have been the requirements in current biosensor technology development, especially during the COVID-19 outbreak. Development of reliable and stable biosensors with point-of-care microfluidic biosensing platforms has attracted increasing attention from both academia and industry.

Microfluidics offer excellent platforms for biosensor development and biosensing. The platforms are useful for sample preparation, liquid handling, and cell/particles manipulation. Moreover, they can be further integrated with detection modules for a wide range of applications in healthcare, biochemistry, food and water quality, etc. This Special Issue will report the latest innovative microfluidic devices and technologies for biosensing applications. The main topic is related but not limited to:

- biomedical microfluidics
- lab on a chip
- miniaturized systems for chemistry and life science (MicroTAS)
- biosensor development and characteristics
- imaging and other detection technologies
- point-of-care testing microdevices
- food and water quality testing and control

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About the Journal

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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 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).

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