

Special Issue

Advances in Microfluidic Chip Based Biosensors for Cell Analysis

Message from the Guest Editors

The explosive development of microfluidics in recent decades has comprised novel theoretical, experimental, and applied progress in cell analysis, organ-chip, and biomedical application on microfluidic platforms.

Emphasis has been placed on labs on a chip such as optical, electrical, acoustic, and magnetic techniques. Focus has also been given on relative applications in biomimetics, drug screening, biomolecular detection, cell analysis, and bacterial analysis. We invite papers covering different topics, including:

- Cost-effective microchip design in cell analysis or bacterial analysis.
- Advanced methods for cell analysis or bacterial analysis.
- Integrated organ systems.
- The experimentation and mechanisms of microchips for cell analysis or bacterial analysis.
- Fundamental and coupled multiphysics modeling and multiscale applications.
- Advanced cell/bacterial analysis: digital image analysis and machine learning.
- Kinematics and dynamics for fluid flow.
- The development and application of *biosensors*.
- Automated microchips in drug design, material discovery, and medical diagnosis.

Guest Editors

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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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