Special Issue

MEMS Based Biosensors and Its Applications

Message from the Guest Editors

The main topic of this Special Issue aims to gather original articles and reviews which cover research advancements, fabrication, innovative applications, new challenges and future perspectives regarding the latest sensors (transducers) fabricated or functionalized using MEMS technology as miniaturized detection devices/systems for various applications in the field of biosensoring (such as in the fields of biology, chemistry, clinical diagnosis, healthcare, food, pollution, etc.). We largely welcome contributions in all fields of MEMS-based sensors, including novel principles, structures, methodologies and applications. These are included but not limited to:

- Novel MEMS fabrication technology for sensor devices;
- MEMS-based small-scale system for measurement, evaluation, analysis and detection;
- Development of methodologies and applications based on current MEMS technology;
- Other MEMS-based biophotonic/chemical/electronical sensors and systems;
- Biological and chemical sensors, including smart materials and microfluidic components.

Guest Editors

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Deadline for manuscript submissions

closed (20 January 2025)

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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.

Editor-in-Chief

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