Topical Collection

Recent Developments in Microfluidics

Message from the Collection Editors

The advent of microfluidics has revolutionized many fields. Microfluidic technologies are rapidly evolving with new fabrication techniques, channel architecture, and materials (flexible elastomers, paper, 2D materials), along with developments in sensing modalities (optical, electrical, and magnetic) and integrated molecular biology techniques (CRISPR-based approaches). On the other hand, cost-effective, disposable, and simple-use microfluidic technologies are at the frontlines of point-of-care diagnostics and screening of infectious diseases and genetic disorders, especially in low-resource settings; the importance and urgency of which has become evident once more during the recent COVID-19 pandemic. In this Special Issue, we are pleased to invite contributions on “Recent Developments in Microfluidics”. The main topic is related but not limited to:

- microfluidic biosensors
- lab-on-a-chip
- paper-based microfluidics
- wearable microfluidics
- Microfluidic assays
- molecular diagnostics
- cellular diagnostics
- point-of-care diagnostics
- physiological monitoring
- global health

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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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