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Microfluidic Sensors

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Message from the Guest Editors

After three decades of innovation and development, today's microfluidic technologies are capable of carrying out a wide variety of tasks in a most compact and integrated form. Among those tasks, sensing remains one of the most sought-after function for most point-of-care and lab-on-a-chip applications.

Commonly-used detection methods can be classified into three major types: Optofluidics, electrochemistry, and mass spectrometry. Taking advantage of recent developments in sensing techniques, large scale integration, and biotechnologies, currently available tools seem to be unlimited. From surface acoustic wave sensors to CMOS sensors to paper-based biosensors, many new demonstrations include, but are not limited to: Heavy metals, small molecules, proteins, DNA, bacteria, and eukaryotic cells measurements.

This Micromachines Special Issue on “Microfluidic Sensors” intends to collect the most relevant original short communications, review articles, and research papers, from industry and academia. We welcome your contribution and we would also appreciate your referral to a colleague who might be interested.



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Special Issue



Editor-in-Chief

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