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Microfluidic Bio-Sensors and Their Applications

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submissions:

closed (10 December 2022)

Message from the Guest Editor

Dear Colleagues,

The integration of microfluidics and sensing technology is a rapidly developing field with major applications towards diagnostic devices, including rapid detection for food safety, chemical and biological research, medical diagnostics, and environmental monitoring. This Special Issue is dedicated to covering innovations over a variety of topics in this area, from sensing to manufacturing and integration methods to novel microfluidic-based sensors for biological application. The scope of the journal is wide on biosensing, including but not limited to the following areas:

- Lab-on-a-chip and other biochips and microarray systems;
- Novel microfluidic based biosensing concepts, mechanisms, and detection principles;
- 3D printed microfluidic and biosensing devices;
- Development of biosensor methodologies and applications;
- Fabrication technology of chip-based detection devices;
- Scaffold based biomimetic systems and microfluidic devices for biosensing application;
- Biological and chemical actuators, including smart materials and microfluidic components;
- Biophotonic sensors and chemical sensing systems.



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Message from the Editor-in-Chief

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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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