



Integration and Application of Microfluidic Sensors

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Message from the Guest Editors

Dear Colleagues,

Microfluidics has emerged as a powerful tool that makes substantial contributions in modern chemistry or biology research. Conceptually, the idea of microfluidics precisely manipulates minute amounts of fluids (pL–nL) in microscale chips fabricated with standard semiconductor industry or other microfabrication approaches. These microfluidic devices, or so-called micro total analysis systems (μ TAS), show great potentials in broad applications including sensing, separation, analysis, detection, synthesis and diagnosis, with the advantages of sample economy, rapid analysis time, cost effectiveness, compactness and portability, high throughput, and the ability to multiplex and automate. The aim of this Special Issue is to collect new ideas in the integration and application of microfluidic devices. We invite innovative and original researches to contribute to the Special Issue with their prestigious work in the related topics, including but not limited to:

- advanced micro/nanofabrication
- electrokinetics, electrowetting and dielectrophoresis
- acoustofluidics and optofluidics
- sensor technology
- diagnostics and therapy
- other microfluidic applications





sensors



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Message from the Editor-in-Chief

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