Special Issue

Microwave-Microfluidic Integrated Sensors and Devices

Message from the Guest Editors

Microfluidics is a precision tool for the manipulation of small volume fluid within micro-machined manifolds and devices. In the last two decades, integrated microfluidic platforms have been extensively devised for many sensing and diagnostic tasks in both physics and life science research. Microwave-microfluidic sensors is an emerging technology for real-time, non-invasive measurement of solvent electrical properties with high-resolution sensing performance, which may play an important role in evaluating and understanding chemical reactions and biological processes in situ. The combination of integrable microwave elements and microfluidic circuits shows new capabilities in a wide range of applications, including flow chemistry, polymer processing, material synthesis, biomedicine, and clinical usage.

- microfluidics
- microwave sensors
- microwave power delivery
- interdisciplinary research

If you want to learn more information or need any advice, you can contact the Special Issue Editor Jincy Jiao via directly.

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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