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Lab-on-a-Chip and Microfluidic Sensors

Guest Editor:

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Deadline for manuscript submissions:

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Message from the Guest Editor

Dear Colleagues,

Lab-on-a-chip technology is the cornerstone of low-cost and robust testing at the point-of-care. It is widely applied for the semiquantitative detection of a broad range of target molecules in bodily fluids and water and food samples. However, it suffers from a major shortcoming that limits its usefulness, which is that it is mostly suitable for the analysis of simple analyte samples. For example, testing of blood biomarkers requires ex situ sample preprocessing (to obtain plasma), which negates the benefit of the point-of-care format. There is therefore a significant need to develop a next-generation point-of-care technology compatible with complex samples such as blood, tissue, stool, and food with greater limit-of-detection.

This Special Issue is devoted to covering microfluidic and lab-on-a-chip research that focuses on integrated sample preparation and detection on a single chip to provide low-cost and equipment-free detection. Some reviews constitute the backbone of the Special Issue, and there is room for many regular research papers, as well as mini reports.













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Message from the Editor-in-Chief

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