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Lab-on-a-Chip Technology

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Message from the Guest Editors

Dear Colleagues,

Lab-on-a-chip technology is enabling revolutionary influences on biochemistry and presents a whole new class of miniaturized analysis systems for chemical and biological applications. The lab-on-a-chip devices, or so-called micro total analysis systems (μTAS) deal with minute amounts of fluids (pL–nL) in channels with a size of tens to hundreds of micrometers, therefore presenting many opportunities including great economy of sample and reagents, less reaction waste, 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 provide an opportunity for researchers to publish their latest researches and developments related to lab-on-a-chip or microfluidic technologies, including Fundamentals in Micro/Nanofluidics, Micro/Nanofabrication, Droplets, Electrowetting, Electrokinetics, Valves and Pumps, Acoustofluidics, Optofluidics, Organ-on-a-chip, and their applications in chemical and biological analysis.

Prof. Jikui Luo
Dr. Zhen Cao
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Message from the Editor-in-Chief

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