Special Issue

Research Highlights in Microfluidics

Message from the Guest Editors

Microfluidics is a new technology platform used to manipulate very small amounts of liquids with high accuracy, and is widely used in the research of biological problems. Microfluidic technology has developed rapidly in recent years. It integrates the sample pretreatment, biochemical reaction, sorting and detection processes involved in the fields of chemistry, biology and medicine into a microfluidic chip and provides a powerful research platform for the foundation and application of these fields. Microfluidic chips can process a large number of samples in parallel, and has the advantages of reduced sample consumption, fast detection speed, simple operation, multi-functional integration, small size and easy of transport. In the future, it will play an important role in the biomedical field, especially in vitro diagnosis. In recent years, the research highlights in microfluidic technology have mainly been focused around the research of efficiency promotion, the combination of multiple micro operation methods, chip processing, microfluidic driving, biological signal detection and so on.

Guest Editors

Dr. Xiaoming Liu

School of Mechatronical Engineering, Beijing Institute of Technology, Beijing 100081, China

Prof. Dr. Zheng Xu

Key Laboratory for Micro/Nano Technology and System of Liaoning Province, Dalian University of Technology, Dalian 116024, China

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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