Special Issue

Micro/Optofluidic Devices for Bio and Energy Applications

Message from the Guest Editor

Microfluidics is rapidly emerging as a breakthrough technology in an expanding range of fields, such as medical sciences, bio-sensing and actuation, chemical synthesis, energy harvesting, and more. This is helping to transform microfluidics from a promising R&D tool to commercially viable technology. Along with technology advances in the area of microfluidics, the idea of using fluids for light control, and vice versa, has also attracted great attention in the new research discipline of optofluidics that combines the advantages of microfluidics and optics. Fuelling the expansion in micro/optofluidics areas is the intensified focus on a highly valuable improvement of automation and enhanced functionality through integration with electrical, mechanical, photonic, sensing, and flow control elements. In this Special Issue, we invite the scientific community to highlight methods and emerging challenges with this new phase of micro/optofluidic development with the goal of informing readers of the current state-of-the-art. Original research papers and review articles on micro/optofluidic devices and their bio and energy related applications are welcomed.

Guest Editor

Dr. Sung-Yong Park

Department of Mechanical Engineering, San Diego State University, 5500 Campanile Drive, San Diego, CA 92182, USA

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

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Editor-in-Chief

Prof. Dr. Ai-Qun Liu
1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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