Special Issue

Micro-Devices for Pathogen Detection

Message from the Guest Editor

Epidemics caused by infectious diseases, such as the COVID-19 outbreak at the end of 2019, represent unprecedented challenges for mankind. When facing unknown infectious diseases, it is important to identify pathogens quickly and effectively, so as not to cause public panic. Although the performance of current clinical and laboratory testing instruments is rapidly improving, there is still an urgent need for the development of micro-devices that can simultaneously achieve detection sensitivity, speed, portability, and accuracy. In the past decade, the development of new detection devices that are based on optics, electrochemistry, analytical chemistry, microscopic imaging technology, 2D materials, micro-electro-mechanical systems (MEMS) manufacturing, and computer analysis has gradually gained momentum in the field of pathogen detection. Therefore, this Special Issue aims to introduce research papers, newsletters, and review articles focusing on the development of new micro-devices aimed at the detection of pathogens (such as bacteria, viruses, fungi, parasites, and so on). We look forward to receiving your submissions.

Guest Editor

Dr. Wenwen Jing

Department of Medical Microbiology and Parasitology, Shanghai Medical College of Fudan University, Shanghai 200032, China

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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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