Special Issue

Innovative Microfluidics for Health and Environment

Message from the Guest Editor

Microfluidics has become a transformative technology, offering faster, more sensitive, and portable solutions for challenges in health and environmental applications. Recent advancements in microfluidic systems, which integrate micro/nanoscale engineering with precision diagnostics, have revolutionized the detection, monitoring, and treatment of diseases, while also enabling effective environmental monitoring and pollution mitigation. This Special Issue focuses on the latest research and innovations in microfluidics for health and environmental applications, such as:

- Microfluidic systems for environmental pollution detection and mitigation;
- Lab-on-a-chip platforms for healthcare diagnostics and monitoring;
- Microfluidic-based technologies for drug discovery, delivery, and personalized medicine;
- Novel biosensors for detecting contaminants in food and water;
- Microfluidic innovations for sustainable environmental and agricultural applications.

We encourage the submission of original research articles, comprehensive reviews, and short communications. We look forward to your contributions and to advancing the impact of microfluidics on health and environmental science.

Guest Editor

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