Special Issue

Microfluidic Systems for Diagnostic Applications

Message from the Guest Editor

Diagnostic processes are the cornerstone of our health and wellness, being of critical importance to infectious disease testing, environmental monitoring, food safety monitoring, and other global health areas. Microscale devices have and continue to push the boundaries of innovation in diagnostic technology. These devices are capable of performing analytical tests with an efficiency and quality comparable to conventional methods, but in a much smaller footprint. Microfluidic diagnostic systems can be fabricated from a variety of substrate materials, including thermoplastics, elastomers, paper, glass, and thread. They are also diverse in their chemistry and sensing modalities, employing electrochemical, colorimetric, and plasmonic detection methods among others. This Special Issue will highlight recent advances in the development of microfluidic systems for diagnostic application in global health and other areas related to the improvement of human health.

Guest Editor

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