Special Issue

Micro-, Nano-Fluidics and Biosensors in Food Safety Applications

Message from the Guest Editors

Foodborne illnesses not only cause health concerns but are also responsible for economic losses worth billions of dollars worldwide due to the direct costs of treatment and others relevant costs such as personal transportation and ability to work. In order to lower and work towards to the elimination of the probability of foodborne illnesses, the rapid and effective detection of foodborne pathogens is vital. The development of science and technology in last two decades, especially in micro and nanofabrication and the material sciences has opened an opportunity for the rapid detection of low concentrations and low volumes of reagents, giving rise to applications and implementation in the detection of foodborne pathogens. We will primarily focus on the current developments and working principles of rapid detection methods and integrated devices both on-chip and off-chip for foodborne pathogens. The emphasis will be on point-of-care devices and online monitoring, which are currently drawing most of the scientific and industrial attention towards implementation for both the rapid detection and treatment of foodborne pathogens.

Guest Editors

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