Special Issue

Microfluidics for Detection and Analysis

Message from the Guest Editors

Microfluidic chips, commonly called “labs on a chip”, refer to the reduction in fluid flow, heat/mass transfer to the micrometer scale to perform sample preparation, reagent manipulation, biometric identification, and molecule detection. Microfluidic systems have always been used as biosensors to detect specific targets by converting biomolecular recognition into measurable physical or chemical signals. Integrated microfluidic biosensors allow low sample and reagent consumption, flexible liquid handling, and electrical, magnetic, acoustic, and optical technologies which can be easily incorporated into microfluidic biosensors to achieve rapid detection. Owing to these inherent advantages, microfluidic biosensors have received significant attention in many fields, such as clinical diagnosis, food safety, environmental pollution, and cell analysis.

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Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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