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Microfluidics for Detection and Analysis

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Deadline for manuscript submissions:
closed (20 January 2023)

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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Message from the Editor-in-Chief

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Journal Rank: JCR - Q1 (*Chemistry, Analytical*) / CiteScore - Q1 (*Engineering (miscellaneous)*)

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