Special Issue

Advanced Microfluidic Devices and Lab-on-Chip (Bio)sensors

Message from the Guest Editors

The use of miniaturized systems confers numerous advantages for monitoring in clinical diagnostics, environmental control, food industry control, and others. This Special Issue will showcase recent advances in microfluidics and lab-on-chip sensing devices for precise processing and analytical detection. Researchers working in novel microfluidics and/or integrated sensing transducers are welcome to submit original work and reviews that focus on topics including, but not limited to, the following: manufacturing of microfluidics and lab-on-chip; application of (bio)sensing integrated systems; miniaturized (electro)chemical sensors; optical and gas sensors; capacitive sensors; electrochemical sensors; FET sensors; radio frequency sensors; electronic miniaturization for sensing control; miniaturized mechanical sensors; point-of-care devices; point-of-need devices; organ-on-chip; nano-technology; paper-based devices; etc.

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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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