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Microfluidics for Biosensing Applications

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editors

Dear Colleagues,

The reaction time and applied reagents of microfluidic systems are faster and fewer than those using conventional methods, representing a revolutionary advancement on bio-assay processes. Microfluidics combined with biosensing technologies is one of the most vibrant research areas in this field. Biosensing technologies, such as electrochemical, optical, mechanical, and electrical detections realized on different microfluidic devices with various substrates, including glass, silicon, polymer or paper, are utilized to detect/analyze various targets, including nucleotide (DNA, RNA), proteins, enzymes, cells, tissues, and organs. This Special Issue is aiming at those advanced technologies through the incorporation of microfluidic and biosensing systems for biological/environmental/clinical applications. Topics of interest include but are not limited to the following:

- Microfluidic systems for biosensing
- Nanofluidic biosensing systems
- Assays in droplet microfluidics
- Lab-on-a-chip systems
- Microfluidics for pathogen detection
- Paper-based later flow biosensor
- Point-of-care microfluidic devices
- Hematology microfluidic systems

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Message from the Editor-in-Chief

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