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Portable Sensor Systems for Microbial Application

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Deadline for manuscript submissions:

closed (28 February 2022)

Message from the Guest Editor

Recently, much research has been carried out to propose novel techniques for microbial analysis that can allow low-cost and in situ measurements outside a laboratory environment. One important characteristic of the proposed techniques is potential implementation in the form of an embedded portable electronic system, based on a microcontroller or FPGA, to allow microbial analysis outside a laboratory to also be performed by nonskilled personnel. Moreover, the recent wide diffusion of smartphones with a high processing capability that integrate wireless communication systems and a rich sensor set offers an optimal platform to design low-cost mobile sensing systems.

The editors welcome the submission of high-quality research papers not previously published in other journals as well as review articles discussing recent advancements in the development of portable sensor systems for microbial analysis and innovative techniques for microbial analysis that can be easily implemented in the form of an electronic embedded system.

Keywords:

- Sensor
- Bacteria
- Microbial analysis
- Portable system
- Biosensor
- Lab-on-a-chip













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Message from the Editor-in-Chief

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