

Special Issue

Advanced Biosensors for Bacterial Detection

Message from the Guest Editor

Efficient, swift and robust bacterial detection is important to food and environmental safety, diagnostics, outbreak preventions, and therapeutic development. This Special Issue will present the latest trends of biosensors for applications in the field of bacterial detection. Topics of interest include, but are not limited to the following:

- New bioreceptor immobilization strategies for optical, electrochemical, magnetic and acoustic transduction,
- Novel bacterial biomarker discovery and their detection
- Design and development of novel sensing elements: molecularly imprinted polymers such as DNA, the rational designed peptides by molecular modelling and/or computational screening; synthetic nucleic acid polymers, novel enzymes, etc.,
- Biosensing systems for the early detection of foodborne pathogens,
- “Lab-on-a-chip” sensors
- Point-of-care devices and online monitoring of waterborne and foodborne bacteria
- Paper-based biosensors
- Whole bacteria detection
- Novel bacterial pre-concentration strategies

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2021)



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

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