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Biosensing Technologies for Detecting Food Contaminants

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editor

Dear Colleagues,

Applications of biosensing technologies in food safety are attracting more attention. Food contaminants are any harmful substances unintentionally added to food, which may be chemicals from natural sources, environmental pollution, or formed during food processing. Biosensor methods detect a specific trace analyte within a food matrix. Rapid, cost-effective, and portable biosensors can be extensively applied; however, there are still numerous challenges to be overcome. Rapid biosensor methods such as enzyme-linked immunosorbent assay (ELISA), immunochromatographic strip (ICS), aptamer, and lab-on-a-chip methods for detecting natural toxins, mycotoxins, marine biotoxins, antibiotic residues, plant toxins, pesticide, veterinary drug residues, artificial additives, and processing contaminant-acrylamide in the food chain are welcome. The main topic is related but not limited to:

- monoclonal antibody
- ELISA
- immunochromatographic strips
- biosensors
- gold nanoparticles
- aptamer
- mycotoxin
- marine biotoxins
- antibiotic
- veterinary drugs

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Editor-in-Chief

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Message from the Editor-in-Chief

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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Journal Rank: JCR - Q1 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

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