Special Issue

Recent Advances and Perspectives of Spectroscopy-Based Biosensors

Message from the Guest Editors

Food is crucial for human survival, health, and national economy. As food may be contaminated by toxic substances in the process of production, processing and storage, such as pesticide residues, heavy metals and harmful additives, food quality and security are increasingly less protected. Strengthening the rapid and effective monitoring of harmful substances in food is of great practical significance to ensure food safety, promote human health, and increase social and economic development. Conventional detection methods, such as gas chromatography (GC), high-performance liquid chromatography (HPLC), and polymerase chain reaction (PCR), cannot meet the needs of rapid analysis, especially online quality assessment and determination for industrial applications. Consequently, there is a need for reliable and rapid analytical methods of food safety. This Special Issue aims to collect high-quality research focusing on the latest novel advances and technology for food quality and safety detection. We encourage the submission of original high-quality research papers and comprehensive reviews related to the application of biosensor and spectral analysis in food.

Guest Editors

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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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