

Special Issue

Biosensors for Environmental Monitoring and Food Safety

Message from the Guest Editors

In recent years, the need for accurate, real-time monitoring of environmental and food safety has become increasingly critical. The rise in global population, industrialization, and agricultural activities has led to heightened concerns about pollution, foodborne illnesses, and the integrity of our food supply chains. Traditional analytical methods, while effective, often fall short in providing the rapid and on-site analysis required to address these challenges promptly. Biosensors, which integrate biological recognition elements with physicochemical transducers, have emerged as powerful tools to meet these demands. Their unique ability to offer high sensitivity, specificity, and rapid response times makes them indispensable in detecting contaminants, pathogens, and other harmful agents in both environmental and food matrices. The aim of this Special Issue is to report on the developments and advances in biosensors to meet the needs of environmental and food analysis.

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About the Journal

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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