Topical Collection

Sensors and Biosensors for Environmental and Food Applications

Message from the Collection Editors

Environmental and food analysis is a very challenging task. Chromatography and mass spectrometry have been the traditionally applied techniques for pollutants, contaminants, and nutrient analysis, including in quality control and environmental health and food safety programs. However, considering the inherent properties of sensors, there is an excellent opportunity for the application of sensor and biosensor technology. Thus, in the past few years, there has been a great effort on developing novel sensors and biosensors through interdisciplinary approaches. The remarkable characteristics of nanomaterials have ensure advanced performance of the sensors and biosensors in terms of sensitivity, selectivity, detection limit, response time, and multiplexing capability. Moreover, integration of the sensing devices into electronics-based platforms and lab-on-a-chip devices allows to yield powerful portable and cost-effective sensing devices for in situ measurements. Thus, this special issue proposes to offer the dissemination of original research and review studies that report advances, challenges and future perspectives of sensors and biosensors for environmental and food applications.

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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.

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