Special Issue

Electrochemical (Bio)Sensors as Promising Analytical Tools in the Analysis of Soils, Plants and Environmental Monitoring

Message from the Guest Editors

Biosensors hold great promise for the task of environmental monitoring and control. The specific interaction of an immobilised biological layer with target pollutants provides the basis for analytical devices for laboratory or field use. While environmental applications of biocatalytic (enzyme) and immunosensors have greatly increased during the 1990s, little attention has been given to the development of recognition layers for environmental surveillance. Such recognition layers could play a major role in future environmental analysis.

The modification of a transducer surface, through the immobilisation of a recognition layer, can thus form the basis for new sensing devices and provide solutions to various environmental problems. One of the potentially major applications of electrochemical (bio)sensors is the testing of water, food, soil, and plant samples for the presence of pathogenic microorganisms and analytes (carcinogens, drugs, mutagenic pollutants, etc.).

The topics including that:
(bio)sensor
electroanalysis
environmental analysis
electrodes
soil
plant

Guest Editors

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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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