



Chemical Sensors for Toxic Chemical Detection

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Message from the Guest Editors

The growing interest in chemical sensing of toxic chemicals arises from the increasing demand for health and environmental standards, security and safety. However, cumulative exposure at trace concentrations can have long-term adverse effects. Chemical sensors are attractive devices that offer significant benefits, such as low cost, portability, simplicity of operation, selectivity, durability, etc.

The focus of this Special Issue will be on publishing original and review articles on recent advances and challenges in the development of chemical sensors in order to determine toxic chemicals. Herein, this Special Issue will focus on the following themes:

- New trends in developments of electrochemical sensors for determination of toxic chemicals;
- Carbon nanomaterials in a chemical sensing system;
- Composite materials as sensing elements in the determination of toxic chemicals;
- Biochips and microarray in the manufacturing of sensors;
- Optical sensors and arrays in the detection of harmful substances;
- Acoustic-wave-based sensors;
- Toxic chemical sensors based on living organisms, tissues, and cells;
- Metal nanoparticles in sensing toxic chemicals.



sensors



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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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