Special Issue

Sensors for Hazardous Material Detection

Message from the Guest Editor

This Special Issue is dedicated to highlighting emerging sensor technologies and their applications to hazardous materials, and aims to present the latest technological and methodological developments in this interdisciplinary field. Special emphasis will be placed on emerging applications for the spectroscopic monitoring, live cell-based imaging, and theoretical calculation approaches of hazardous materials. Full papers, communications, and reviews are welcome. Topics include, but are not limited to, the following:

- Spectroscopic (infrared, Raman, X-ray, magnetic resonance) monitoring of hazardous species;
- Surface-enhanced spectroscopic (e.g., SERS, SERRS, SEIRA, plasmon) sensors of hazardous materials;
- Monitoring of environmentally hazardous materials (e.g., toxic gas, pollutants, fine dust particles, heavy metals);
- Detection of biohazards (e.g., food contaminants, mycotoxins, pathogens);
- Spectroscopic detection and toxicological monitoring of living cells (e.g., bacteria, cancer cells, blood cells);

Guest Editor

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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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