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## Chemical Sensors for Toxic Chemical Detection: 2nd Edition

Guest Editor:

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Deadline for manuscript submissions:

**5 October 2026**

### Message from the Guest Editor

Dear Colleagues,

The increasing focus on chemical sensing of toxic chemicals is driven by rising health, environmental, and safety standards. Toxic chemicals, such as inorganic species, gases, carcinogens, and pesticides, are used across various sectors, and even trace exposures can have long-term adverse effects. Chemical sensors offer key advantages, including low cost, portability, simplicity, selectivity, and durability.

This Special Issue invites original research and reviews on recent advances and challenges in chemical sensor development for detecting toxic chemicals. Topics of interest include:

- Trends in electrochemical sensors (immunosensors, biosensors, DNA-based, etc.) for toxic chemical detection;
- Carbon nanomaterials in chemical sensing systems;
- Composite materials as sensing elements;
- Biochips and microarrays in sensor production;
- Optical sensors and arrays for harmful substance detection;
- Acoustic-wave-based sensors;
- Sensors based on living organisms, tissues, and cells;
- Metal nanoparticles in sensing toxic chemicals.



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Guest Editor

Josipa Dugeč

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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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