

## Special Issue

# Novel Biosensors Based on Nanomaterials

### Message from the Guest Editors

Nanomaterials have revolutionized the field of biosensing, offering unparalleled sensitivity, selectivity, and functionality. This Special Issue, entitled *Novel Biosensors Based on Nanomaterials*, explores the development and application of biosensors that leverage these advanced materials to detect and quantify biological or chemical substances across diverse fields. These innovative biosensors integrate nanomaterials such as carbon-based materials (e.g., graphene, nanotubes), metal nanoparticles, quantum dots, and polymer nanocomposites, which exhibit unique electronic, optical, and mechanical properties.

#### Keywords

- nanomaterials
- biosensors
- nanotechnology
- point-of-care diagnostics
- molecular recognition
- electrochemical sensors
- optical sensors

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### Guest Editors

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### Deadline for manuscript submissions

closed (15 November 2025)



## 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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### Editor-in-Chief

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