

Special Issue

Nanomaterials as Key for Next Generation Sensors

Message from the Guest Editors

With the advances of nanotechnology, the introduction of nanomaterials as sensing elements into the existing sensor technologies that have been developed for decades have contributed to an impressive increase in the sensitivity. With various electrical and optical properties and geometries, low-dimensional structures, such as wires, tubes, flakes, fibers, etc., represent unique opportunities by providing thickness and lateral dimensions similar to those of target (bio)chemical species. The tuning of their composition and surface modifications further widen the possible applications. In this Special Issue, we want to highlight the most recent advances in the development of new nanomaterials, the modification of existing ones, or their innovative and alternative use in sensing applications.

- low-dimensional structures
- materials research
- nanomaterials
- nanosensors
- 2D materials
- nanowires
- nanotubes
- graphene

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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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