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Nanomaterials as Key for Next Generation Sensors

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Message from the Guest Editors

Dear Colleagues,

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

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