Special Issue

Nanostructures and Nanocomposites for Sensing Application: Biological, Food, and Environmental Analysis

Message from the Guest Editor

The study of various nanostructures and nanocomposites for sensing applications has received a tremendous amount of attention from the scientific community in recent years. The incorporation of different nanomaterials with various types of sensors (including biosensors, chemical sensors, physical sensors, and optical sensors) can enhance sensing performance in terms of sensitivity and detection limits. Nanomaterials-based sensors can be applied to various fields, ranging from medical diagnosis to environmental monitoring. This Special Issue will cover various topics, ranging from synthesis and characterization to sensing application of various types of nanostructures, nanomaterials. or nanocomposites. The Special Issue will cover, but not be limited to, the following sensing applications:

- Biochemical substances;
- Virus or bacteria;
- Medical diagnosis;
- Biomedicine;
- Environmental pollutants;
- Ions;
- Biomolecules;
- Organic compounds.

Biosensors, chemical sensors, physical sensors, and optical sensors based on different types of nanomaterials are welcomed.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

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