



Nanomaterials for Sensing Application

Guest Editor:

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Message from the Guest Editor

Functional nanomaterials with attractive electronic and photoelectronic properties show great potential in various fields. In recent decades, tremendous research efforts have been devoted to the design of photoactive and electroactive nanomaterials for qualitative and quantitative analysis applications. This Special Issue focuses on the preparation, surface modification and functionalization of nanomaterials for healthy, environmental and bio-related area sensing.

This Special Issue will showcase the most recent advances in the applications of nanomaterials, with a focus on their application, including but not limited to sensors, labelling, imaging and therapeutic applications in biomedicine.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: sensors for the environment pollution; sensors for ions; sensors for organic compounds; and sensors for biomolecules and biological interest. Optical, electrochemical and photoelectrochemical sensors based on different types of nanomaterials are also welcome.

We look forward to receiving your contributions.





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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.

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