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Study on Photoelectric Properties and Applications of Nanostructured Materials

Guest Editors:

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Message from the Guest Editors

This Special Issue aims to introduce the latest research on photoelectric properties and related applications of nanostructured materials. The photoelectric properties of nanostructured materials have broad application prospects in biomedicine, semiconductor optoelectronic devices, and new energy, and their further development is of great significance for breakthroughs in many fields.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- nanostructured materials
- low-dimensional materials
- surface modification
- hetero-/homo-junction
- biomedical imaging
- photoelectrocatalysis
- photoelectric conversion
- photoelectric sensing
- thermal management
- semiconductor optoelectronic devices

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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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