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## Low-Dimensional Nanomaterials with High Photoelectrochemical Properties

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### Message from the Guest Editor

Dear Colleagues,

This Special Issue of *Nanomaterials* introduces a variety of topics centered on low-dimensional nanomaterials with high photoelectrochemical properties.

Low-dimensional nanomaterials with high photoelectrochemical properties have attracted interest due to their unique chemical and electronic structures, which have attracted widespread attention in the fields of optics, photoelectrochemistry, electronics, catalysis, and biology, stimulating the development of related research and promoting many new directions. This Special Issue aims to report on the latest innovative research and developments in this field, covering a wide range of topics including:

1. Low-dimensional nanomaterials for applications in catalysis;
2. Low-dimensional nanomaterials for applications in energy conversion;
3. Low-dimensional nanomaterials for applications in environmental or biological fields;
4. The novel mechanism of photoelectrochemical processes;
5. Other photoelectrochemical processes.

We welcome contributions from all interested groups.

Please see more details at the following link: <https://www.mdpi.com/si/199368>



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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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