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Nanomaterials for Optoelectronic Application

Guest Editor:

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Message from the Guest Editor

Functional material for optoelectronic applications has been a hot topic in the last several decades due to their strength, which has promoted the development of information technology, energy conversion, and biomedical science. This Special Issue will present comprehensive research outlining progress on the optoelectronic application of nanomaterials. This includes the design and preparation, fundamental photophysical and electrical mechanism, novel optoelectronic application of functional nanomaterials toward energy conversion, plasmonic amplification, information processing and transportation, disease diagnosis, and treatment. We invite authors to contribute original research articles and review articles covering the current progress on Nanomaterials for Optoelectronic Applications. Potential topics include, but are not limited to:

1. Theory and calculation, prediction of optoelectronic nanomaterials;
2. Design and preparation of functional optoelectronic nanostructures;
3. Photophysical processing of nanostructures;
4. Electrical behavior of nanostructures;
5. Optoelectronic devices based on nanomaterials;
6. Nanomaterials for energy conversion.



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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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