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Amorphous and Nanostructured Materials for Optoelectronic Devices

Guest Editor:

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Deadline for manuscript submissions:
closed (30 September 2023)

Message from the Guest Editor

Dear Colleagues,

Optoelectronic devices, including light-emitting diodes, solar cells, photodetectors, and lasers, have been extensively explored for various applications in the fields of energy, communication, and healthcare. In recent years, amorphous and nanostructured materials (both inorganic and organic materials) have shown attractive chemical and physical properties and potential applications in optoelectronic devices. Various new materials, new nanostructures, new mechanisms, and new device designs have been found to achieve high-performance optoelectronic devices.

This Special Issue is open to original research or review articles that focus on amorphous and nanostructured materials and optoelectronic devices used in energy, lighting and display, photodetection, and other fields, including but not limited to:

- Synthesis and characterization of amorphous and nanostructured materials;
- Materials for light-emitting diodes and lasers;
- Materials for solar cells;
- Materials for photodetectors.

We welcome contributions within the above topics.

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Editor-in-Chief

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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