Special Issue

Preparation, Theoretical Modeling and Application of Inorganic Photoelectric Materials

Message from the Guest Editors

Inorganic photoelectric materials include developments in semiconductors, quantum dots, and other nanostructured materials, which have paved the way for innovative applications such as high-efficiency solar cells, sensitive photodetectors, and next-generation light-emitting devices. This Special Issue include, but are not limited to:

- Development and optimization of semiconductor materials for optoelectronic applications;
- Synthesis of quantum dots and their integration into optoelectronic devices;
- Advances in solar cell technologies;
- Innovations in photodetectors, imaging devices, and their material requirements;
- Applications of inorganic materials in light-emitting diodes (LEDs) and laser materials;
- Nanostructured photoelectric materials and devices;
- Photocatalysts for energy conversion and environmental applications;
- Theoretical modeling and simulations of photoelectric phenomena;
- Synthesis methods and techniques for processing and integration of photoelectric materials;
- Material processing techniques for enhanced photoelectric performance;
- Integration of photoelectric materials in flexible and wearable electronics.

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Message from the Editor-in-Chief

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Editor-in-Chief

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