Special Issue

Novel Nanomaterials for Thin-Film Solar Cells

Message from the Guest Editors

Nanomaterials are of considerable interest due to their unique properties and nanoscale size, which enable them to catalyze the development in new technologies and applications. With the increase in global energy demand resulting from human activity, there is a new focus on developing everyday applications of thin-film solar cells with flexible, lightweight, low-cost, and scalable features. Thin-film solar cells have recently undergone significant progress in improving device performance and stability, which mainly results from the rapid development of nanomaterials and related technologies to facilitate the design of new device architecture and nanoscale materials. This Special Issue, entitled "Novel Nanomaterials for Thin-Film Solar Cells", aims to highlight recent advances in the fields of nanomaterials, nanostructures, and nanotechnologies. We welcome experimentally innovated preparation, characterization and theoretical studies of thin-film solar cells.

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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.

Editor-in-Chief

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