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New Horizon in Perovskite Nanocrystals

Guest Editor:

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Deadline for manuscript submissions:
closed (10 May 2023)

Message from the Guest Editor

The renaissance of organo-inorganic hybrid halide perovskite materials has particularly set off a revolutionary journey in the history of photovoltaic research. Due to the excellent optoelectronic properties, perovskite-related nanomaterials have been broadly applied not only in solar cells, but also in the fields of lighting devices and photocatalysis. The intriguing physical and chemical properties of halide perovskites offer scientists a fantastic field to work with.

Therefore, we are pleased to invite you to contribute an article for our Special Issue with the aim towards the subject of perovskite nanocrystals applied in the fields of photovoltaic, photocatalysis and any optoelectronic device. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Perovskite Solar Cells;
- Perovskite Nanocrystals for Optoelectronic Applications (LED, display, sensor laser, etc.);
- Perovskite for Photocatalysis (CO_2 reduction, water splitting, etc.);
- Fundamental Studies on Perovskite Nanomaterials (perovskite quantum dots, 2D perovskites, double or triple perovskites).

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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.

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