Special Issue

Nanomaterials for Solar Applications

Message from the Guest Editor

One of the important applications of nanomaterials is for solar energy harvesting. As the most clean and abundant energy source, solar energy is the ultimate solution to address the global energy needs. The current research covers the whole spectrum of solar energy related topics from energy storage to conversion of solar energy to different formats, such as thermal, electricity, chemical energy, hydrogen, and so on. Although much effort has been devoted to the use of nanomaterials for solar applications, there are still many grand challenges to overcome before large-scale practical applications, especially regarding the stability, efficiency, lifespan, and cost of those devices. This Special Issue aims to publish original research and review articles in the broad area of nanomaterials for solar applications. Topics include, but are not limited to:

- Solar fuel production;
- Solar to chemical energy conversion;
- Solar cells;
- Solar energy storage;
- Solar water sterilization;
- Solar hydrogen evolution/oxygen reduction;
- Solar water evaporation;
- Solar thermal energy.

Guest Editor

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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