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Nanomaterials for Solar Applications

Guest Editor:

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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;

Message from the Guest Editor

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





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