

Special Issue on
**Advanced Nanomaterials and Nanotechnologies for
Solar Energy**

CALL FOR PAPERS

As the world faces serious energy challenges, the development and implementation of renewable energy technologies become increasingly important. Solar energy resource dwarfs all other renewable and fossil-based energy resources combined. It can be converted into thermal, electrical, and controllable chemical energy by solar heating and cooling, concentrating solar power, photovoltaics, photocatalytic processes, and so on. Nanomaterials and nanotechnologies show great potential in solar energy conversion and storage applications. This special issue is mainly dedicated to the nanomaterials and nanotechnologies in solar energy, including photocatalysis and photoelectrochemical approaches.

This special issue accepts review articles as well as original research articles with focuses on the recent advances in nanomaterials and nanotechnologies for solar energy conversion and storage.

Potential topics include but are not limited to the following:

- ▶ Photocatalysis and photocatalysts
- ▶ Photoelectrocatalysis
- ▶ Photocatalysis and photoelectrocatalysis related nanomaterials, with particular interest in two-dimensional material (graphene, MoS₂, and beyond), metal organic framework, perovskite, quantum dots, nanogels, and nanocarbon catalysts
- ▶ Photocatalysis and photoelectrocatalysis related nanotechnologies, with particular interest in organic and printed electronics, nanocoatings, and nanoelectrodes
- ▶ Advancements in concepts, mechanisms, and modeling related to nanomaterials and nanotechnologies for photocatalysis, photocatalysts, and photoelectrocatalysis

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/ijp/ntso/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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