Special Issue

Nanomaterials Catalysis for Hydrogen Production and Water Splitting

Message from the Guest Editor

Areas of interest include, but are not limited to, the following topics:

- Hybrid TiO2-based materials for photocatalytic water splitting: mechanisms, materials, and limitations.
- Beyond TiO2: the current state-of-the-art developments in non-TiO2 photocatalysts, addressing fundamental issues
- Rational designing of visible light photocatalysts for efficient photocatalytic water splitting
- Nanoplasmonic interphases for efficient H2 evolution
- Non-precious metal cocatalysts for water splitting photocatalysis
- Multi-phase homojunctions-heterojuctions for efficient photocatalytic water splitting
- Methods of synthesis of 2D and 3D nanomaterials for photocatalytic water splitting: addressing performance, cost-efficiency, scalable production
- Solar pilot plant scale development for photocatalytic water splitting
- Theoretical computational modeling studies of photocatalytic water splitting process
- Recent developments in the designing of water splitting photo reactors

Guest Editor

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Deadline for manuscript submissions

closed (20 October 2021)

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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