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Nanomaterials Catalysis for Hydrogen Production and Water Splitting

Guest Editor:

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Deadline for manuscript submissions:

closed (20 October 2021)

Message from the Guest Editor

Dear Colleagues,

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











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Message from the Editor-in-Chief

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