Special Issue

Materials and Devices for Solar to Hydrogen Energy Conversion

Message from the Guest Editors

The generation of hydrogen by electrolysis using solar energy is a promising carbon-free approach, but it needs to be improved in terms of efficiency and durability to become economically appealing. A crucial factor is represented by electrode and catalyst materials. This Special Issue will focus on the development of new materials and devices for the conversion of solar energy into hydrogen. Topics of interest for publication include, but are not limited to:

- Hydrogen as solar fuel
- Other solar fuels
- Novel solar cells
- High performance solar cells
- Photo electrochemical cells
- Electrolyzers
- Catalysts for oxygen and hydrogen evolution reaction electrodes
- Solar-to-hydrogen systems
- Hydrogen storage

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Message from the Editor-in-Chief

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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