



Advances in Sustainable Hydrogen Production

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Production of low-carbon alternative fuels is an important pathway to combat climate change and control global warming. Sustainable production of low-carbon hydrogen accelerates the push towards carbon neutrality. Hydrogen can also be employed as a decarbonizing agent for heavy industries such as cement and steel, or as a storage medium for renewable electricity grids for better stability. This issue supports research on recent advances in all types of sustainable hydrogen production methods including biological and thermochemical hydrogen production, the role of hydrogen in energy transition, and also energy systems where hydrogen is produced and employed for better sustainability. Some of the topics covered in this issue (but not limited to) are as follows:

- The role of hydrogen in energy transition;
- Green hydrogen production technologies;
- Blue hydrogen production technologies;
- Biomass-based hydrogen production;
- Power to gas technology;
- Solar-based hydrogen production;
- Integrated hydrogen energy systems;
- Thermochemical water splitting cycles.

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Guest Editor





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Message from the Editor-in-Chief

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