

Special Issue

Recent Advances on Photocatalytic and Electrophotocatalytic Hydrogen Production

Message from the Guest Editors

Dear colleagues, In recent years, energy demand has increased progressively but it has also been accompanied by a reduction in the supply of fossil fuels. For this reason, the need for alternative, new, clean, renewable, and ecological energy resources have emerged. Because of the progressive decrease of fossil fuel reserves and the pollution caused by their utilization, hydrogen represents a promising choice for a future energy resource because it is pollution-free, storable, and in great demand by the fuel cell industries. In this context, the photocatalytic and electrophotocatalytic hydrogen production as energy vector from water and wastewater, represent the most important and promising strategies for renewable energy production resources. We cordially invite you to contribute your original research work or review articles to this Special Issue. In particular, in this Special Issue, the development of photocatalysts active under UV, visible or solar light, strategies to improve photocatalytic performances by means of heterojunctions, configurations of photocatalytic and photoelectrocatalytic reactors for the production of hydrogen will be considered.

Guest Editors

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Deadline for manuscript submissions

closed (10 November 2022)



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