catalysts

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Towards Green, Enhanced Photocatalysts for Hydrogen Evolution

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Deadline for manuscript submissions:
closed (30 September 2020)

Message from the Guest Editors

We invite the submission of original papers reporting on significant advances in the preparation and application of novel semiconductor materials for photocatalytic H_2 evolution from water. In particular, papers describing new routes for obtaining nanocomposites with improved photocatalytic activity under solar light and research papers focusing on the development and optimization of hydrogen-producing photocatalytic systems from (waste) biomass are particularly encouraged

Potential topics include but are not limited to the following:

- Synthesis and characterization of new nanocomposite materials for photocatalytic hydrogen production from water
- Investigation of non-noble metals and/or semiconductors as co-catalysts
- Valorization of (waste) biomass as a sacrificial agent
- Development of efficient phototocatalytic systems for H_2 production under solar light
- Multivariate approaches for the optimization of H_2 evolution