Special Issue

Trends and Challenges in Photocatalytic Water Splitting

Message from the Guest Editor

Photocatalysts can help to generate hydrogen from water and thus, offer a sustainable way of creating an excellent fuel, aided only by the power of sun. There has been tremendous progress with both organic and inorganic catalysts showing good efficiencies towards hydrogen production but there are still challenges remaining. In this Special Issue, our aim is to capture the recent progress in the field of photocatalytic water splitting. The priority is given to catalysts that are active towards visible light as they are the most promising for applications in green hydrogen generation. However, we will welcome the input on photocatalytic materials that operate over the entire solar spectrum, including those that operate under UV light as they play an important role in removal of organic pollutants in wastewater. The aim of this issue is to demonstrate to the readers that there is a huge array of new and exciting photocatalytic materials that have emerged and matured over last decade.

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