Special Issue

New Advances in Photocatalytic Hydrogen Production

Message from the Guest Editors

Clean and carbon-free hydrogen exhibits promise regarding its capacity to become the most feasible energy carrier of traditional fossil fuels. Photocatalytic technology could convert sustainable solar energy to hydrogen without the emission of any contaminants; therefore, addressing energy issues and achieving carbon neutrality is an appealing approach. This specific field has already attracted extensive attention and is now relevant in the domain of solar-to-hydrogen efficiency, fulfilling the requirements of industrial application. This Special Issue, entitled “New Advances in Photocatalytic Hydrogen Production”, will cover the most recent progress in the discovery of novel materials and the design of efficient catalysts, the fundamental exploration of the reaction mechanism, and the development of advanced characterization methods, etc., relating to photocatalytic hydrogen production. This Special Issue welcomes the submission of original research and review papers within its scope and aims to inspire further developments in this expanding and prospering research field.

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