



Perovskite-Type Oxides-Based Catalysts in Hydrogen Production Application

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Message from the Guest Editors

Hydrogen, both in its role as an energy carrier as well as a feedstock, is already widely used in fields such as fuel cells and transportation, and has become one of the main pillars for the energy transformation necessary to combat climate change. Hydrogen production technologies mainly include water electrolysis, fossil fuel hydrogen production, and biomass hydrogen production. In particular, perovskite metal oxides have stable structures and flexible tunability of physicochemical properties, making them one of the suitable choices for hydrogen production catalysts. In this Special Issue, the main aim is to report on advanced perovskite-based catalysts which are beneficial to hydrogen production technologies. We invite original research, reviews, and perspectives involving experimental/simulation investigation, recent developments, and future directions in the field of hydrogen production using perovskite-based catalysts.

