

Special Issue

Novel Metal-Based Catalysts in Hydrogen Production

Message from the Guest Editors

In recent years, environmental issues such as air pollution, the greenhouse effect, and global warming resulting from the overuse of traditional fossil fuels have dramatically increased. Therefore, developing alternative energies is definitely important for releasing greenhouse gas emissions and solving the fossil fuel crisis. Among the existing energies, hydrogen is very promising, which can also be applied for chemical production in many reactions. For this reason, effective methods for producing hydrogen through various technologies such as thermal catalysis, electrocatalysis, and photocatalysis deserve to be investigated. In particular, a novel catalyst is crucial to realize efficient hydrogen production. In this Special Issue, the main aim is to report advanced metal-based catalysts which are beneficial to hydrogen production during the aforementioned technologies. We invite original research, reviews, and perspectives involving experimental/simulation investigation, recent developments, and future direction in the field of hydrogen production using metal-based catalysts.

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2023)



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