Special Issue

The Rational Design of Advanced Electrocatalysts for Oxygen Evolution and Hydrogen Evolution Reactions

Message from the Guest Editors

Hydrogen is expected to be a promising substitute fuel to traditional fossil fuels due to its renewability and high energy density. Electrochemical water splitting is deemed an economical and efficient way to generate hydrogen for the utilization of renewable energies. To accelerate the sluggish oxygen evolution and hydrogen evolution reactions (OER and HER), electrocatalysts are commonly used to reduce their kinetic energy barriers and, finally, improve energy conversion efficiency. Although great efforts have been devoted to developing efficient water splitting electrocatalysts, further investigations into the design and optimization of electrocatalysts are urgently needed. This Special Issue will focus on the rational design of advanced electrocatalysts for oxygen evolution and hydrogen evolution reactions.

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