

## Special Issue

# Synthesis of Multicomponential Alloys for Hydrogen and Oxygen Evolution Process in Alkaline Electrolysis

### Message from the Guest Editor

Metallic nickel is of great interest for a broad range of catalytic and electrochemical applications. One of the oldest and best-described processes is the cathodic evolution of hydrogen from alkaline solutions, which is also implemented in large-scale industrial applications. The most straightforward method for improving catalytic activity is the combination of two or more metals from both parts of the volcano curve, which is considered a state-of-the-art theoretical investigation in the field of electrocatalysis. This Special Issue is seeking novel studies and communication papers that address the synthesis and evaluate the properties of different multicomponential alloys. The combination of five different elements can lead to the synthesis of a single-phase structure, which is called a high-entropy alloy. According to publication records, these alloys can exhibit an excellent performance in different applications, in comparison to the traditional two or three elemental alloys.

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### Guest Editor

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### Deadline for manuscript submissions

closed (15 June 2023)



## International Journal of Molecular Sciences

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