Special Issue

Advances in High Electrocatalytic Performance Electrode Materials

Message from the Guest Editor

This Special Issue focuses on the recent advances in high electrocatalytic performance electrode materials for energy conversion and storage applications. The aim is to provide a comprehensive overview of the latest developments in the synthesis, characterization, and performance evaluation of various electrode materials for different electrocatalytic reactions, including the oxygen reduction reaction (ORR), oxygen evolution reaction (OER), hydrogen evolution reaction (HER), carbon dioxide reduction reaction (CO2RR), etc. The papers in this Special Issue will cover a wide range of topics, including the design and synthesis of novel electrode materials, the use of advanced characterization techniques to understand the structure–property relationship of electrode materials, and the development of efficient strategies for improving the electrocatalytic activity and stability of existing materials. The ultimate goal is to accelerate the development of sustainable and efficient energy conversion and storage technologies.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2023)

Catalysts

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Impact Factor 4.0
CiteScore 7.6

mdpi.com/si/166788

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