



Recent Advances of Catalysts for Hydrogen Evolution Reaction in Water Splitting

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

This Special Issue welcomes the submission of original research papers, reviews, and perspectives that focus on promising and novel research outcomes in the synthesis, functionalization, characterization, and application of novel catalysts for water electrolysis. Submissions may cover themes including but not limited to:

- Cost-effective synthesis approaches of novel catalysts including bi-functional catalysts for overall water electrolysis;
- Elaborate fabrication of robust electrodes with high durability;
- Catalyst degradation and electrode failure mechanisms using advanced in situ and ex situ characterization techniques;
- Performance evaluation from conventional RDE testing to device levels, such as AEM electrolyzers and PEM electrolyzers.

Dr. Zhiqiang (Andrew) Xie
Guest Editor





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Message from the Editor-in-Chief

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