Special Issue

Frontiers in Electrocatalysis: Oxygen Reduction, Oxygen Evolution, and Hydrogen Evolution Reactions

Message from the Guest Editors

This is a Special Issue on the low-temperature (or room-temperature) electrocatalysis, including oxygen reduction reaction (ORR), oxygen evolution reaction (OER), and hydrogen evolution reaction (HER). The Special Issue will include but is not limited to research into the design and development of new electrocatalysts for ORR, OER, and/or HER in alkaline and/or acid conditions, as well as their applications in real devices, such as fuel cells, metal–air batteries, water splitting devices and so on. Particular focus is on the discovery of non-precious metal catalysts that possess high performance and excellent stability. Both theoretical calculations and experimental results are of interest. In addition, we highly encourage submissions of review papers that summarize recent advances in electrocatalysts for these reactions.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2022)

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