Special Issue

Nanocatalysts for Electrochemical Reactions: Design, Synthesis, and Fundamental Understanding

Message from the Guest Editors

The concept of nanocatalysts opens up a new avenue in the field of electrochemistry research and have experienced highly productive decades since the consolidation of this topic. The featuring fine-tuned morphology and microscopic structure were elaborately exploited to access fascinating strain effects, ensemble effects and electronic structure modulations, which demonstrated great potential in diverse electrochemical transformations with distinctive reactivities. Besides, the combined experimental and theoretical studies substantially enriched fundamental understanding of molecular behaviors on surfaces, yielding a framework to understand catalytic trends that can ultimately offer rational guidance toward the development of improved catalysts.
This Special Issue is dedicated to providing a broad survey of the most recent advances in Nanocatalysts for Electrochemical Reactions. Original research articles or reviews that discuss methodologies for synthesis and functionalization of nanocatalysts, structural aspects, catalytic mechanism and properties, and profound perspectives in electrocatalysis fields are welcome.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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