

## Special Issue

# Synthesis and Applications of Novel Low-Dimensional Nanomaterials in Catalysis

### Message from the Guest Editors

Low-dimensional nanomaterials have emerged as some of the most promising candidates for heterogeneous electrocatalysts due to their unique physical, chemical, and electronic properties. Various low-dimensional nanomaterials have been constructed and applied as electrocatalysts in the water, carbon, and nitrogen cycles. This Special Issue aims to provide a broad survey of the most recent advances in low-dimensional nanomaterials and their applications in electrocatalysis. We invite researchers in this field to submit original research articles or reviews that discuss different engineering strategies for low-dimensional nanomaterials and these strategies have the influence on intrinsic electrocatalytic performance, such as electronic properties and adsorption energetics, and their applications in diverse electrochemical reactions are welcome.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 May 2025)



## Molecules

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### Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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### Editor-in-Chief

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