

## Special Issue

# Molecular Insight into Catalysis of Nanomaterials

### Message from the Guest Editor

The main purpose of this Special Issue is to provide an in-depth understanding of the molecular catalytic behaviour of nanomaterials. To achieve tailored products during the catalytic process for multidisciplinary research, nanomaterial catalysts are designed through versatile strategies. With the rapid development of nanoscience and technology, nanomaterial catalysts exhibit unique performance in different systems regarding thermal, photo and electrocatalysis due to quantum effects and surface effects. In addition, theoretical and computational approaches are useful strategies to provide insights for the catalytic process on a molecular level. This Special Issue aims to gain insight into recent advances and emerging applications of nanomaterial-mediated reactions in both chemical and biological systems and focuses on the mechanism and kinetics of molecule catalysis by nanomaterials through theoretical and computational approaches. We encourage researchers to share their recent work and perspectives on this topic.

### Guest Editor

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### Deadline for manuscript submissions

30 September 2025



## International Journal of Molecular Sciences

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Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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*International Journal of  
Molecular Sciences*  
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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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