

Special Issue

The Potential Mechanisms and Functional Materials Design in Photocatalysis

Message from the Guest Editor

Dear colleagues, The present Special Issue in the *International Journal of Molecular Sciences* aims to provide insights to the international community working in the areas of electronic structures of plasmonic nanostructures; band-gap engineering for semiconducting materials; light-matter interactions; ultrafast dynamics of photoexcited charge carriers; and plasmon-mediated photodecomposition of molecules.

Keywords

- photocatalysis
- electronic structure
- charge transfer dynamics
- light-matter interaction
- plasmon
- low-dimensional material

Please feel free to contact me if you have interest in contributing to our special issue.

Guest Editor

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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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