

## Special Issue

# Nanomaterials for Photonic Device and Light–Energy Conversion

### Message from the Guest Editors

Nanomaterials of semiconductors and metals have important applications in a wide range of fields, including optical information, displaying, biosensors, photocatalysis, and solar energy conversion, thanks to their excellent charge transport, tunable light absorption, and highly efficient photon–electron conversion. The aim of this Special Issue is to collect original research papers and review articles focused on the following issues: (i) the preparation and application of novel perovskite nanocrystals and thin films in solar cells in photodetectors; (ii) the synthesis and application of plasmonic nanometals in photonic devices and spectrography; the synthesis and application of nanosemiconductors with efficient photocharge separation for photocatalysis.

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### Guest Editors

Prof. Dr. Zaizhu Lou  
Prof. Dr. Wenzhe Li  
Prof. Dr. Long Wen

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### Deadline for manuscript submissions

closed (31 March 2022)



## Molecules

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*Molecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto:molecules@mdpi.com)

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## About the Journal

### 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

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).