

## Special Issue

# Novel Functional Nanomaterials for Energy, Environmental and Sensing Applications

### Message from the Guest Editors

For this Special Issue, we invite submissions of papers reporting novel functional nanomaterials for sensing, environmental, and energy applications. We aim to showcase cutting-edge research focused on the design, synthesis, characterization, and application of innovative nanomaterials.

Topics of interest for this Special Issue include, but are not limited to, the following: Sensing: Nanomaterial-based sensors for detecting gases, biomolecules, and environmental pollutants with high sensitivity and selectivity.

Environmental Applications: Nanomaterials for pollutant degradation, water purification, air filtration, and sustainable waste management.

Energy Technologies: Nanostructured materials for energy storage (batteries, supercapacitors), conversion (solar cells, fuel cells), and catalysis (HER, ORR, CO<sub>2</sub> reduction).

We invite the submission of original research articles, reviews, and perspectives highlighting recent breakthroughs, challenges, and future directions in this multidisciplinary field. Contributions emphasizing scalable synthesis, eco-friendly approaches, and real-world applicability are particularly encouraged.

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### Guest Editors

Dr. Jing Hu

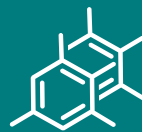
Dr. Ming Li

Dr. Miao Cheng

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### Deadline for manuscript submissions

31 August 2026



## Molecules

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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).