

Special Issue

Chemical Conversion and Utilization of CO₂

Message from the Guest Editor

The chemical conversion and utilization of CO₂ is a rapidly evolving field in chemistry. As atmospheric CO₂ levels continue to rise, developing efficient methods to convert and utilize this abundant greenhouse gas has become a key focus for scientists worldwide. This Special Issue is dedicated to showcasing the latest research and developments in the fields of chemical conversion and CO₂ utilization. We are particularly interested in original research articles and comprehensive reviews that explore novel approaches in these areas, including but not limited to organic syntheses, catalytic processes, materials design for CO₂ capture and conversion, and sustainable chemical pathways for green synthesis. Contributions that provide new insights into the challenges and opportunities in CO₂ utilization and green chemistry are highly encouraged, as they are crucial for advancing our collective efforts to address the pressing environmental challenges of our time. We invite you to contribute your cutting-edge research to this Special Issue and join the global endeavor to create a sustainable and environmentally responsible future.

Guest Editor

Prof. Dr. Gang Li

Frontiers Science Center for Transformative Molecules, School of Chemistry and Chemical Engineering, Shanghai Jiao Tong University, Shanghai, China

Deadline for manuscript submissions

31 December 2025



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/220636

Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

[mdpi.com/journal/
molecules](https://mdpi.com/journal/molecules)





Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



[mdpi.com/journal/
molecules](https://mdpi.com/journal/molecules)



About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).