

Special Issue

The Recent Advances in Sustainable Materials for Energy and Environmental Applications

Message from the Guest Editor

We encourage the submission of studies that combine experimental work with theoretical insights—density functional theory (DFT), molecular dynamics, or machine learning-assisted design—to unravel structure–property relationships. Contributions focused on scalable synthesis, lifecycle assessment, and technoeconomic analysis are particularly welcome, particularly those that bridge lab-scale breakthroughs with real-world deployment. Environmental applications extend beyond water treatment to include air purification (e.g., VOC removal, NO_x abatement), greenhouse gas capture, and smart membranes for resource recovery. Energy-related topics include next-generation photocathodes, photoanodes, and hybrid systems that integrate energy harvesting with on-site fuel generation or storage. Placing emphasis on material recyclability, regeneration, and circular economy principles will help set new benchmarks for sustainable technology lifecycles.

Guest Editor

Prof. Dr. Gurumurthy Hegde

Centre for Advanced Research and Development (CARD), Christ University, Bangalore, India

Deadline for manuscript submissions

31 July 2026



Chemistry

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 3.9



mdpi.com/si/249124

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

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





Chemistry

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 3.9



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



About the Journal

Message from the Editor-in-Chief

Chemistry is a broad science and in *Chemistry* we hope to showcase the excellence of this fundamental discipline. Open Access publishing allows scientists to publish their research in a way that reaches the widest possible audience. In *Chemistry* we aspire to build a genuinely transdisciplinary culture in which communication of results between scientists active in different areas and between scientists and the broader public highlights the benefits that chemistry can bring to society. We encourage papers on all aspects of chemistry ranging from astrochemistry to zoochemistry, with everything in between. We also very strongly welcome inter- and multidisciplinary papers which expand the subject beyond its present horizons. We also welcome themed issues collecting reviews and state-of-the-art papers in topical areas of chemical science.

Editor-in-Chief

Prof. Dr. Igor Alabugin
Department of Chemistry and Biochemistry, Florida State University,
Tallahassee, FL 32306, USA

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), CAPlus / SciFinder, and other databases.

Reliable service:

rigorous peer review and professional production.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.5 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).