

Special Issue

Advanced Chemical Approaches and Technologies in Water Treatment

Message from the Guest Editor

The purpose of water treatment is to improve water quality to meet certain water quality standards. The scope of this new Special Issue includes chemical, biological, and biochemical processes aiming to increase sustainable water quality, as well as water environmental monitoring and remediation. We encourage submissions focusing broadly on molecular biology, biochemistry, genetics, metabolic engineering, synthetic biology, and data analytics with biotechnological applications. We are also eager to publish papers describing biotechnological process development, including bioreactor design and scale-up. Chemical and biological approaches in water treatment focuses on the following areas:

- Development and application of new chemical flocculant.
- Biodegradation.
- Anaerobic/aerobic treatment.
- Metabolic engineering.
- Cell-free and immobilized enzyme processes.
- Enzyme engineering, production, and analysis.
- Chemicals' life cycle assessments and environmental impact analyses.

Guest Editor

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Deadline for manuscript submissions

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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.

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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).