

## Special Issue

# Chemical Recycling of Waste Plastics

### Message from the Guest Editors

This Special Issue of *Molecules* concerns publications of research related to chemical recycling and conversion of waste plastics to petrochemical feedstock, fuels and/or other value-added chemicals. Although the issue aims to bring together research related to catalysis, material synthesis and sciences using various methods for the mitigation of waste plastics, there is also a possibility to include research on the environmental impacts and handling of waste bioplastics. In this context, this issue covers the sustainable routes for the development of catalysts, study of physio-chemical properties and their effect on the activity and selectivity of the synthesized catalysts towards the chemical and biochemical recycling of waste plastics in general. Keywords:

- heterogeneous catalysis
- nanomaterials
- green chemistry
- thermoplastics
- bioplastics
- waste plastics to fuels
- chemical recycling of plastics
- biochemical recycling of plastics
- feedstock recycling
- plastics degradation
- life cycle assessment
- higher value products
- cleaner production

### Guest Editors

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### Deadline for manuscript submissions

closed (31 December 2022)



## Molecules

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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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#### 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).