

Special Issue

Cutting-Edge Approaches for the Plastic Recycling

Message from the Guest Editors

This Special Issue looks for high-quality research as well as review articles focusing on recent advancements and innovations in plastic recycling. We also invite research contributions on emerging technologies such as depolymerization, pyrolysis, enzymatic and catalytic recycling, and hybrid methods (combination of mechanical and chemical approaches). Unlike conventional recycling, these advanced techniques break down plastics into their molecular or basic monomers, allowing for the recovery of high-quality materials (upcycling) that can be reused for a range of applications. The topics within the scope of the issue include, but are not limited to, the following:

- chemical methods of recycling and upcycling;
- energy-efficient recycling;
- advanced solvent-based recycling;
- synergies for sustainable waste management;
- pyrolysis (thermal and catalytic processes)
- turning end-of-life plastics into new feedstock;
- microbial and bio-catalytic approaches for sustainable plastic decomposition;
- innovations in enzymatic recycling;
- economic viability, scalability, and environmental impacts of advanced recycling methods to build a sustainable and circular plastic economy.

Guest Editors

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Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

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