

## 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.

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### Guest Editors

Dr. Ajmir Khan

Dr. Zhaohan Yu

Dr. Shehla Mushtaq

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### Deadline for manuscript submissions

15 March 2026



## Processes

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## About the Journal

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