

Special Issue

Polymer Recycling and Upcycling

Message from the Guest Editor

Polymer recycling and upcycling have emerged as essential repurposing strategies for advancing a circular economy and mitigating the environmental impacts associated with plastic waste. Recent developments in chemical, catalytic, biological, and thermochemical recycling, along with innovations in polymer design, functionalization, and advanced characterization, have created new opportunities to transform end-of-life polymers into high-value materials and products. This Special Issue aims to showcase cutting-edge research on sustainable polymer recycling and upcycling technologies that improve resource efficiency, reduce carbon emissions, and promote industrial sustainability. Topics include mechanical, chemical, and biological recycling; catalytic depolymerization; polymer-derived functional materials; advanced composites; optimization for polymer processing; and industrial applications that support the transition toward a circular plastics economy. Original research articles, communications, and comprehensive reviews are all welcome.

Guest Editor

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Deadline for manuscript submissions

31 March 2027



Polymers

an Open Access Journal
by MDPI

Impact Factor 5.8
CiteScore 11.0
Indexed in PubMed



mdpi.com/si/286516

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 5.8.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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