

Special Issue

Waste Polymer: Recycling and Valorization

Message from the Guest Editor

The growing accumulation of waste polymers, specifically mixed and partially inseparable grades, demands innovative strategies for sustainable management. This Special Issue focuses on advanced approaches for the valorization and recycling of plastic waste, including mechanical recycling strategies, innovative chemical depolymerization and valorization approaches and the development of circular-material pathways, which are robust to tolerate typical contaminations. Emphasis is placed on novel catalytic or solvent based systems, formulation and process optimization for improved mechanical recycling and the design of recyclable polymers that reduce environmental impact. Contributions exploring life cycle assessment, upcycling into high value materials and integration of recycling technologies into industrial practice are encouraged. The issue aims to highlight cutting edge research that supports a more circular and resource efficient polymer economy.

Guest Editor

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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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