

Special Issue

Polymer Recycling and Upcycling: Toward a Circular Materials Economy

Message from the Guest Editor

- The global increase in plastic consumption has resulted in an urgent need for sustainable solutions to address the accumulation of polymer waste. Conventional linear production models—which are predicated on the take–make–use–dispose paradigm—have become untenable. Consequently, the objective of this Special Issue is to shed light on the most recent advancements in polymer recycling and upcycling, which are instrumental in facilitating a circular materials economy.
- The Special Issue invites original research articles, reviews, and short communications that focus on innovative strategies for mechanical, chemical, and biological recycling of polymers. In addition, submissions may address the design of recyclable polymer systems, catalytic depolymerisation processes, and valorisation of post-consumer or industrial plastic waste. Submissions are particularly encouraged for contributions that explore innovative upcycling methods. Furthermore, studies that address technological, economic, life cycle, or policy perspectives related to circular polymer systems are encouraged to promote a holistic comprehension of sustainable material loops.

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 4.7.

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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