

Special Issue

Rubber Recycling and Reuse: Strategies for Sustainability and Valorization

Message from the Guest Editors

Rubber and rubber-based composites are widely used across industries due to their durability, elasticity, and unique functional properties. However, the extensive use of vulcanized rubber products, combined with their limited biodegradability, has created significant environmental and economic challenges associated with end-of-life management. This Special Issue will focus on recent advances in the recycling and reprocessing of both natural and synthetic rubbers, as well as rubber-based composites. Topics of interest include mechanical, thermal, and chemical recycling methods, devulcanization strategies, reclaiming technologies, and the design of sustainable additives and processing aids. Particular emphasis will be placed on innovations that enhance circularity, reduce environmental impact, and enable the incorporation of recycled rubbers into new high-performance materials. This Special Issue aims to provide a comprehensive platform on which researchers and industry practitioners may share insights that advance the science, technology, and practical implementation of rubber recycling, contributing to a more sustainable and resource-efficient future.

Guest Editors

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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 4.9.

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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