Special Issue

Development in Polymer Recycling

Message from the Guest Editor

The rapid accumulation of polymer waste poses severe environmental and resource challenges, driving urgent needs for advanced recycling and high-value utilization strategies. This Special Issue, "Development in Polymer Recycling", highlights fundamental research, innovative technologies, and scalable engineering solutions to transform polymer waste into valuable resources. Key topics include novel recycling methods, optimization of mechanical/chemical processes for mixed plastics, and industrial-scale applications, such as upcycling polymers into high-performance materials. We emphasize the importance of bridging academic discoveries (e.g., polymer degradation mechanisms), technological innovations (e.g., energy-efficient recycling process), and industrial implementation (e.g., industrial process development). This issue aims to accelerate the transition toward a circular polymer economy, reducing reliance on virgin plastics and minimizing environmental footprints. Contributions spanning fundamental science, process engineering, and lifecycle analysis are encouraged to foster interdisciplinary collaboration and sustainable impact.

Guest Editor

Dr. Weizhong Zheng
School of Chemical Engineering, East China University of Science and Technology, Shanghai, China

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

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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
Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 14476 Potsdam-Golm, Germany

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