## Special Issue

## Polymers for Circular Packaging Materials

## Message from the Guest Editors

Our permanently growing demand for packaging materials with a wide variety of different requirement profiles and the urgent necessity of circular material flows to preserve material and resource values are generating the crucial challenge of a consistent functional and circular use of polymers in packaging applications. The protective nature of the packaging requires using polymers in very different forms, ranging from natural or synthetic multilayer films to polymeric layers on natural fiber-based material or used as additives within base materials and functional layers. Each polymer is intended to add a certain function, but more than ever before, each component used in the packaging materials needs to be chosen with respect to its specific value or impact on material cycles after their first usage. Within the material production, coating, and packaging processes, we expect that modeling and simulation techniques using analytical, numerical, or heuristic methods, including artificial intelligence, are needed to explain the origin of recognized phenomena, and we support their use and introduction within the submitted articles.

### **Guest Editors**

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### Deadline for manuscript submissions

31 August 2025



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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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