

Special Issue

Recent Trends in Polymer Processing for Additive Manufacturing

Message from the Guest Editors

Additive manufacturing (AM) has emerged as a transformative technology in polymer science, enabling the production of complex geometries, customized components, and functional devices with unprecedented design freedom. The continuous development of advanced polymer processing strategies is crucial to fully exploit the potential of AM, particularly in overcoming limitations related to processability, structural integrity, and performance of printed parts.

This Special Issue focuses on innovations in polymer processing for AM, with the aim of providing a comprehensive overview of emerging strategies, materials, and technologies. The scope of this Special Issue includes, but is not limited to, the formulation of novel thermoplastic, composite, and blend feedstocks tailored for AM; advances in process optimization and parameter control; compatibilization and reinforcement approaches for multiphase systems; processing–microstructure–property relationships; and the role of rheological and thermal properties in governing the printability and final performance of printed parts. We particularly welcome contributions that focus on the most widely applied extrusion-based AM technologies.

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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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