

Special Issue

Crystallization Behavior and Mechanical Properties of Semi-crystalline Polymers

Message from the Guest Editors

Polymer crystallization, mechanical properties, and the relationship between the crystalline structure and the behaviour of the deformed polymer have been of interest to researchers for many years. However, many issues remain unsolved, and new polymer materials are being developed that require characterization. Knowledge of the mechanical properties of a new polymer material is essential if its practical applications are considered. Scientists also study changes in the internal structure of the polymer under the influence of external forces. Research on this topic often involves tensile deformation of polymers, but compression tests and impact tests are equally important. Crystallization and mechanical properties are related topics because, by modifying the crystalline structure, we change the properties. Both topics are close to us as because we have been researching them for many years. By inviting you to publish in this Special Issue, we hope that you can provide publications of a high scientific level, representing significant progress in the field of crystallization and/or mechanical properties of semi-crystalline polymers.

Guest Editors

Prof. Dr. Andrzej Pawlak

Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Lodz, Poland

Dr. Justyna Krajenta

Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Lodz, Poland

Deadline for manuscript submissions

30 June 2025



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.7
CiteScore 8.0
Indexed in PubMed



mdpi.com/si/190775

Polymers

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

[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)





Polymers

an Open Access Journal
by MDPI

Impact Factor 4.7
CiteScore 8.0
Indexed in PubMed



[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)



About the Journal

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

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of
Potsdam, 14476 Potsdam-Golm, Germany

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)