



Polymer Dynamics: Bulk and Nanoconfined Polymers

Guest Editor:

Prof. Sasaki Takashi

Department of Materials Science
and Engineering, University of
Fukui, Fukui 91082507, Japan

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Message from the Guest Editor

Relaxation phenomena of polymer molecules in the melt and solution states generally include complicated molecular processes, which arise from segmental connectivity and flexibility of chain molecules. One of the most characteristic features in supercooled polymeric systems is cooperativity in dynamics, it makes the dynamics of polymers be more complex. Although various efforts have been done to elucidate them, the molecular mechanism of polymer dynamics still remains unrevealed; in particular, understanding the relaxation processes based on chemical structures and molecular architectures is a long-standing issue in this field. Furthermore, anomalous dynamics in nanoconfined systems such as ultrathin films and nanoparticles have attracted much attention.

This Special Issue aims to collect papers that concern polymer dynamics including segmental dynamics in polymer melts, solutions, and nanoconfined systems for both synthetic and biopolymers. Papers related to the structures and dynamics near surface and interface are also welcome. In addition, the formation processes of specific structures during crystallization, adsorption, elongation, and fracture are of interest.





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Editor-in-Chief

Prof. Dr. Alexander Böker

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

Message from the Editor-in-Chief

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MDPI, St. Alban-Anlage 66
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