

Special Issue

Structure and Dynamics of Polymers

Message from the Guest Editors

Understanding the structure and dynamics of polymers is fundamental to predicting and controlling their properties, which directly influence their performance in various applications, such as electronics, biomedicine, and sustainable materials. Specifically, the arrangement and conformation of polymer chains, rheological behaviors, and molecular interactions can dictate key characteristics such as mechanical strength, thermal stability, and transport properties. To advance our understanding of these fundamental aspects, this Special Issue focuses on the intricate relationships between polymer structures and their dynamic behaviors across various length and time scales. Interest areas include, but are not limited to, molecular modeling and simulations, experimental characterization, polymer rheology and viscoelasticity, interfacial dynamics, and advanced polymeric material applications. Based on these findings, this Special Issue aims to provide an academic exchange platform, promoting deeper insights into polymer behavior and its characteristics in science and engineering.

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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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