Special Issue

Rheology of Bio-Based Polymeric Materials

Message from the Guest Editors

In investigating systems such as biologically derived polymeric materials, this is achieved by elucidating their mechanical properties. These properties grossly influence their processability under varying physical operating conditions, as well as their target applications. Moreover, it can be used to reveal the entire mechanical spectrum of biopolymers, ranging from negligible, small-scale linear responses at low-stress levels to extraordinarily large-scale nonlinear responses, including yielding, under very high deformation stresses. A sufficient comprehension of the mechanical response lies in an effective explanation and association of the macroscopic, bulk rheological properties with their microstructural characteristics.

We aim to bring together the contemporary rheological work, documenting state-of-the-art advancements in rheological characterizations of a wide array of polymeric biological systems, focusing particularly on how the microstructure influences the rheological response: oscillatory/steady shear, elongational, and interfacial.

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Deadline for manuscript submissions

closed (31 December 2022)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/83179

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mdpi.com/journal/polymers

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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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