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Rheology of Bio-Based Polymeric Materials

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Deadline for manuscript submissions:
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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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Message from the Editor-in-Chief

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