Special Issue

Constitutive Modeling of Polymeric Materials

Message from the Guest Editors

This Special Issue focuses on the constitutive modeling of polymeric materials, with an emphasis on multiscale and multiphysics coupling, viscoelasticity, viscoplasticity, damage, fatigue, and fracture. Constitutive modeling plays a crucial role in understanding the various physical mechanisms involved in material deformation processes and in predicting material behavior under practical conditions. Polymeric materials, known for their diverse applications and unique mechanical properties, require sophisticated models to accurately predict their behavior under various conditions. Contributions to this Special Issue will cover theoretical developments, computational techniques, and experimental validations, offering a comprehensive overview of current trends and future directions in constitutive modeling.

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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 4.9.

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

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