



Model-Based Polymer Processing

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Message from the Guest Editor

Polymer processing provides the critical conversion from a bulk form to a higher valued product with diverse specifications. These processes inherently involve non-uniform temperature, pressure, and strain fields that interact with the rheological properties to determine the morphology and properties of the processed materials.

This special issue is dedicated to model-based polymer processing. Invited and submitted articles should investigate process mechanisms, such as plastication, deformation, and curing to model the interactions between materials, process states, and product properties. Authors are encouraged to compare theoretical predictions to empirical observations, and examine the effect of processing factors on the process responses. This Special Issue is not limited with respect to the type of polymer processing or modeling method; the goal is to provide intellectually stimulating and practically valuable examples about the use of models in polymer processing research and development.





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Message from the Editor-in-Chief

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