



## Phase Equilibria Involving Natural and Synthetic Polymers

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### Message from the Guest Editors

The design of new biorefinery-based processes to convert lignocellulosic biomass to energy and other valuable chemical products; the extremely rapid growth in plastic production, which demands new technologies for postconsumer plastic waste revalorization; and the relevance of polymers and biopolymers in nanotechnology, food packaging and pharmaceutical areas have motivated this Special Issue. These vastly different areas have, however, a very important linking factor: excellent knowledge of the phase equilibria of polymeric solutions and their dependence on the operating conditions (e.g., pressure, temperature and composition) plays a key role in the efficient design of processes. The modelling of polymeric solution phase behavior is challenging, because thermodynamic properties depend on the structure of the polymer, as well as on the number and nature of functional end groups present in the molecule. In addition, experimental data to fit models or verify predictions are scarce in the literature.

It is our pleasure to invite you to submit a manuscript for this Special Issue.





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