



an Open Access Journal by MDPI

## Phase Equilibria Involving Natural and Synthetic Polymers

Guest Editors:

**Dr. Maria Dolores Robustillo Fuentes**

Department of Industrial  
Chemical Engineering and  
Environment, E.T.S.I. Industriales,  
Universidad Politécnica de  
Madrid, José Gutiérrez Abascal 2,  
28006 Madrid, Spain

**Dr. Teresa Regueira**

Fluidan ApS, Diplomvej 381, 2800  
Kgs. Lyngby, Denmark

Deadline for manuscript  
submissions:

**closed (30 September 2022)**

### 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.



[mdpi.com/si/85072](https://mdpi.com/si/85072)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Alexander Böker

Fraunhofer-Institut für  
Angewandte Polymerforschung,  
Lehrstuhl für Polymermaterialien  
und Polymertechnologie,  
Universität Potsdam,  
Geiselbergstraße 69, 14476  
Potsdam-Golm, Germany

## Message from the Editor-in-Chief

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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)

## Contact Us

---

*Polymers* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/polymers  
polymers@mdpi.com  
X@Polymers\_MDPI