

Special Issue

Preparation and Application of Polymer Membranes

Message from the Guest Editor

Polymer membranes play a vital role in a wide range of industrial and environmental applications, including water purification, gas separation, energy storage, and biomedical devices. This Special Issue invites contributions explore recent advancements in the complex structure–processing–property relationships of polymers, aiming to advance the development of polymeric membranes. We welcome both original research and comprehensive reviews. The scope of this Special Issue includes, but is not limited to, the following topics:

- Understanding the structure–performance relationships and underlying mechanisms;
- Designing novel polymer membranes for energy, filtration, catalysis, biology, and other applications;
- The application of computational modeling and simulation techniques in polymer analysis;
- Recent innovations in the functionality of polymer membranes;
- The use of computational methods to predict membrane properties;
- Experimental and theoretical evaluations of polymeric filters.

Guest Editor

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About the Journal

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 4.7.

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

Prof. Dr. Alexander Böker

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