

Special Issue

Advances in Polymeric Membrane Materials for Separation and Purification

Message from the Guest Editor

Polymeric membranes play a pivotal role in modern separation technologies due to their versatility, tunability, and scalability. This Special Issue seeks contributions that address the synthesis, characterization, modification, performance enhancement, and application of polymeric membranes across various sectors, including water and wastewater treatment, gas separation, biomedical applications, and energy conversion systems. We welcome original research articles, critical reviews, and perspectives on topics including (but not limited to) the following:

- Novel polymeric materials for membranes (e.g., block copolymers, IPNs, and bio-based polymers);
- Surface modification and functionalization strategies;
- Mixed-matrix and nanocomposite polymer membranes;
- Advanced fabrication techniques (e.g., electrospinning, 3D printing, and phase inversion);
- Structure–performance relationship of membrane materials;
- Membrane fouling and mitigation strategies;
- Sustainability and recyclability of polymeric membranes.

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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