Special Issue

Block Copolymers for Membrane Separation and Energy Conversion

Message from the Guest Editors

We are pleased to announce a Special Issue of *Polymers* titled **"Block Copolymers for Membrane Separation and Energy Conversion"**. This issue will focus on the design, synthesis, characterization, and application of block copolymers—functional polymeric materials that enable selective mass transport, enhanced stability, and improved performance in membrane and energy conversion systems. Topics of interest include, but are not limited to, the following:

- Block copolymers for ion-exchange membranes, including applications in monovalent/divalent ion separation, and membranes with antifouling, solvent-resistant, acid-blocking, or antibacterial properties
- Block copolymers for energy conversion and storage devices, such as fuel cells, redox flow batteries, and electrodialysis systems
- Porous membranes derived from block copolymers for ultrafiltration, nanofiltration, and reverse osmosis
- Membrane technologies based on block copolymers for sustainable applications, including wastewater resource recovery, solute concentration, and energy-efficient separations
- Block copolymers as functional binders or matrix materials in battery systems, such as lithium–sulfur, lithium-ion, and sodium-ion batteries

Guest Editors

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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.

Editor-in-Chief

Prof. Dr. Alexander Böker
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