



Development and Applications of Polymeric Membranes for Separation

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Message from the Guest Editors

Dear Colleagues,

As a sustainable approach, the membrane separation is playing an increasingly important role for the processing and recovery of target compounds from various gas and liquid streams due to its lower energy cost, footprint, and flexibility in operation. The majority of membranes used in separation processes are based on amorphous and semicrystalline polymers. This Special Issue entitled “Development and Applications of Polymeric Membranes for Separation” will cover both the fundamental and applied aspects of polymeric membrane preparation and application, including but not limited to:

- The structure evolution and phase behavior of the polymeric systems during the membrane formation by nonsolvent- and vapor-induced phase separation (NIPS, VIPS) methods, as well as the thermally induced phase separation (TIPS) method, and their combination;
- Mechanisms of structure formation of the membranes in the phase separation processes;
- Novel approaches to the formation of polymeric membranes;
- Novel membrane materials, including mixed matrix membranes and polymer–polymer blends;
- Gas and liquid separation and membrane contactors.





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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 5.0.

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.

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