Special Issue

Development and Applications of Polymeric Membranes for Separation

Message from the Guest Editors

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.

Guest Editors

Dr. Konstantin V. Pochivalov

Dr. Alexey V. Volkov

Dr. Andrey V. Basko

Deadline for manuscript submissions

closed (30 March 2024)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/165993

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/journal/polymers

MDPI

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
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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)