Special Issue

Development of High-Performance Polymers for Membranes Applied to Gas and Liquid Separations

Message from the Guest Editors

Interest in membranes for liquid and gas separation has increased in recent decades due to their small size and energy-efficient separation capabilities in a number of separation processes. Organic polymers are preferred over membrane preparation due to their flexibility and the feasibility to tailor their properties to achieve the desired separation. Membranes from high-performance polymers may be tailored for gas, vapor, or liquid separation in order to overcome limiting situations. High-performance polymers for membrane preparation can also be designed to develop specific morphologies that, depending on their application, could be porous or microporous, phase-segregated, or modified with suitable functional groups to achieve flux and selective separation performance in a given process. Even though there is a large number of polymer materials reported, there is a need for research towards tailoring high-performance polymers for membrane selective performance for applications that require larger selectivity while maintaining the flux of a desired species in molecular gases, vapors, and liquids separation.

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Deadline for manuscript submissions

closed (30 June 2025)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/221052

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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 4.7.

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

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