Special Issue

Advanced Polymer Materials for Membrane Separation

Message from the Guest Editors

In the field of Advanced Polymer Materials for Membrane Separation, researchers are exploring various innovative approaches to enhance membrane performance, particularly in applications such as gas separation, water treatment, organic solvent separation, and ion exchange/transport in fuel cells and lithium–sulfur batteries. Here is a summary of some key points:

- Two-Dimensional Polymer Nanosheets
- Mixed Matrix Membranes (MMMs)
- Polymer Metal–Organic Framework (polyMOF) Nanoparticles
- Organic Solvent Separation Membranes
- Porous Organic Polymers (POPs)

These research advancements indicate that advanced polymer materials have broad application prospects in membrane separation technology, especially in improving separation efficiency, reducing energy consumption, and minimizing environmental impact. With continuous advancements in material science and manufacturing technologies, it is anticipated that more innovative membrane materials will be developed to meet industrial and environmental separation needs in the future.

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Separations offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

Editor-in-Chief

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