



Advances in Separation and Purification with Polymeric Membranes

Guest Editor:

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Message from the Guest Editor

The rapid growth of the membrane market was driven by advances in polymer science and membrane process engineering. Compared to other purification processes, membrane technology is displacing established molecular-separation processes by avoiding energy-intensive phase changes, achieving higher efficiency at lower cost.

The use of the electrospinning techniques, ionic liquids (ILs), molecular organic frameworks (MOFs), zeolitic imidazolate frameworks (ZIFs), and the preparation of mixed matrix membranes (MMMs), which combine a polymeric matrix with an inorganic filler, have all blossomed over the last decade.

In general, this Special Issue is oriented to experimental studies and theoretical analyses of phenomena associated with and arising from separation and purification as well as process development and simulation, equipment design and fabrication. Of particular interest are articles aimed at solving separation issues encountered in emerging technologies including fields such as carbon capture, unconventional gas, green technology, biotechnology, energy storage and conversion, and resource recovery and recycling.





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