



Polymer-Based Membrane Technology and Applications

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Message from the Guest Editor

Sustainable development has its roots in the respect and the protection of natural resources for a qualitative improvement of our life. In this context, eco-friendly technologies are emerging as a valid solution for preserving the environment through energy-saving products and the reduction of waste production. Membrane-based operations have become increasingly competitive thanks to the existing technologies and find a great variety of applications in many industrial sectors, such as extraction, concentration, purification, recovery, and production. Polymers are, by far, the most commonly used material for preparing membranes. The choice of a selected polymer affects the final membrane morphology and properties, hence, the starting material is of crucial importance for assuring an efficient separation process. Both renewable and nonrenewable polymeric sources should be employed. With the development of membrane technology, improvements in membrane performance have been made through polymer modifications. However, a much greater effort is still needed to obtain sustainable membrane processes.





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