



Advances in Polymeric Membranes

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Message from the Guest Editor

A membrane is a partition or a barrier between two phases, and on the application of a driving force, it separates the phases. Various inorganic and polymeric materials are used to prepare membranes.

Membranes are prepared using a variety of materials, such as cellulose acetate (CA), polyvinylidene fluoride (PVDA), cellulose diacetate (CDA), etc. Membrane properties—such as surface charge and hydrophobicity—and process parameters depend on the polymer material used. For example, the electrokinetic potential, also known as the zeta potential, reflects the electric charge acquired by the membrane surface when it is brought into contact with an aqueous electrolyte medium. The membranes of polymers from the polysulfone (PS) family and polyacrylonitrile (PAN) are considered to have intermediate hydrophilicity, and materials like polyethylene and polypropylene are more hydrophobic.

The aim of this Special Issue is to highlight the progress on monomers, the synthesis, characterization, properties, and applications of polymers, copolymers, blends and composites for the fabrication of separation membranes.





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Message from the Editor-in-Chief

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