



Advanced Polymer-Based Composite Membranes

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Message from the Guest Editors

Membrane-based separation and purification technologies are energy efficient and environment friendly as compared to conventional sorption and distillation processes. In particular, polymeric membranes have dominated membrane industries for a wide range of applications such as gas separation, saline desalination, and wastewater treatment. This is mainly due to the excellent processability of polymers, which can be economically shaped into various structures by non-solvent-induced phase inversion (NIP) and thermal-induced phase inversion (TIP). Nevertheless, driven by high demand, polymeric membranes with better performances are highly desired and pursued in both academia and industry. Apart from the discovery and synthesis of new membrane polymers, advanced polymer-based composite membranes provide a new and wide window for exploring and developing high-performance membranes. Polymeric composite membranes can be in various configurations, such as thin-film composites (TFCs), nanocomposites, mixed matrixes, etc.





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