



Advanced Polymeric Membranes for Separation

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Message from the Guest Editors

It is well known that more than 90% of water in the world comprises salty water and only about 2.5% could be used for human consumption; among that 2.5%, most water resources are polluted by various industrial dyes, toxic metallic ions, drugs, pesticides, bacteria, and other aromatic organic chemicals. Polymeric membranes provide a potential way to treat these pollutants in wastewater to obtain cleaning drinking water. Traditional polymer membranes have been widely used for water purification, but they are mostly limited by low selectivity, solution fluxes, and fouling issues. In addition, some impurities and biological materials would aggregate on the surface or in the pores of fabricated membranes, causing very poor selectivity, low water purification ability, reduced resilience, and increased energy consumption. The functionalization of polymer membranes with suitable chemicals, nanoparticles, and 2D graphene-like materials exhibits the possibility to create functional antifouling and antibacterial membrane materials.





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