



## Functional Membranes: From Synthesis To Applications

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### Message from the Guest Editor

Membranes represent an essential component in many industries and applications. They could be used in simple purification applications. Advanced membranes could also be highly selective toward the separation/passage of specific materials via a proper insertion of functional groups and/or controlling their microscopic structure. The emergence of new technologies (electro-spinning, ultra-thin film spin-coating, etc.) to membrane manufacturing significantly amplifies the possibilities for designing novel membranes and opens avenues for more applications in different areas of our life.

This Special Issue is dedicated to the latest cutting-edge research in the synthesis of new polymeric materials with potential use in membranes in different applications, use of recent technologies for assembling membranes with new functionalities and selectivity, recent characterization tools for membranes for a better understanding and to improve their performance, and theoretical modeling for predicting and maximizing the efficiency of membranes.





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