



High-Performance Nanocomposite Membranes and Their Applications

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Message from the Guest Editors

Dear Colleagues,

The recent interest in nanocomposite membranes is driven by rapid advances and innovations in nanotechnology and nanomaterials synthesis. To date, many inorganic and organic nanomaterials, such as zeolites, MOFs, ZIFs, COFs, CNTs, graphene-family materials, and 1-D, 2-D, mesoporous and nonporous nanomaterials have been leveraged to realize high separation performances, as well as to enhance the mechanical, antifouling, barrier and wetting properties of membranes. Owing to this promise, nanocomposite membranes have garnered considerable attention from both the academic and industry players.

The purpose of this Special Issue is to cover recent progress in nanocomposite membranes for desalination, wastewater treatment, solvents and resources recovery, gas separation, upgrading and enrichment, pharmaceutical and food industries applications as well as energy harvesting.





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Message from the Editor-in-Chief

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