Special Issue

High-Performance Nanocomposite Membranes and Their Applications

Message from the Guest Editors

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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Deadline for manuscript submissions

closed (30 April 2019)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/15473

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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