Special Issue

Design, Preparation and Application of Nanocomposite Membranes

Message from the Guest Editors

Membrane-based methods are competitive in terms of costs compared to traditional processes, as they provide a high separation efficiency, have a wide range of applications, and are constantly improving thanks to different nanocomposite materials. Nanocomposites are now commonly employed to strengthen the standard polymeric membrane materials used in water treatment processes. A number of different materials and methods have been put forward, with thin-film nanocomposites (TFNs), electrospun polymeric nanofibrous membranes, carbon nanotubes, metals and metal oxides, graphene and graphene oxide, zwitterionic materials, and metal–organic frameworks presenting the greatest promise. This Special Issue is dedicated to original research and review papers exploring the latest developments in the field of membrane technology for the quantification and/or removal of trace organic compounds in different water matrices.

Guest Editors

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Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375). *Membranes* is an international, peer-reviewed open accessjournal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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