

Special Issue

Functionalized Membranes for Sustainable Water and Energy Production

Message from the Guest Editors

Dear colleagues, Membrane technology is known as one of the most efficient separation techniques regarding energy consumption, reliability, and operational safety. Membrane materials, design, structure, and performance can be enhanced through different chemical, physical, and electrical- surface and substrate functionalization approaches to produce functionalized membranes with enhanced permeability, rejection, and antifouling ability. This Special Issue will highlight the importance of membrane functionalization techniques, functionalizing materials, and the performance of functionalized membranes for sustainable water and energy production. This Special Issue welcomes both original research and reviews related to functionalized membrane fabrication, characterization, and applications mainly for water treatment, desalination, wastewater treatment, perfluorooctanoic acid derivatives removal, oil–water separation, volatile organic compound removal from aqueous or gas streams, CO₂ removal, production, and recovery of high-added products from wastewater.

Guest Editors

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About the Journal

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 access journal 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

Prof. Dr. Spas D. Kolev
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