Special Issue

Sustainable Approaches for Synthetic Membranes at End of Life

Message from the Guest Editors

This issue focuses on advancing sustainable practices in the management of membranes (reverse osmosis (RO), nanofiltration (NF), ultrafiltration (UF), microfiltration (MF), forward osmosis (FO), electrodialysis (ED), membrane distillation (MD), fuel cells (FCs), etc.) as they approach the end of their operational life. Synthetic membranes play a crucial role in water treatment, desalination, energy, and various industrial applications, yet their environmental impact and disposal present significant challenges. This collection of articles explores state-of-the-art strategies for membrane reuse and recycling and novel technologies for extending their functional lifespan. Emphasizing circular economy principles and life cycle assessment (LCA), contributors will examine innovative approaches to mitigate environmental footprints and promote resource efficiency in membrane technologies. We invite researchers and practitioners to contribute their expertise, advancing knowledge and solutions for sustainable membrane end-of-life management.

Guest Editors

Prof. Dr. Maxime Pontié

Dr. Mehri Shabani

Dr. Vandré Barbosa Brião

Deadline for manuscript submissions

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Membranes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
membranes@mdpi.com

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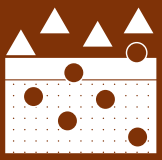

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About the Journal

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 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

Prof. Dr. Spas D. Kolev
School of Chemistry, The University of Melbourne, Melbourne, VIC 3010, Australia

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