



## Sustainable Approaches for Synthetic Membranes at End of Life

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Deadline for manuscript  
submissions:

**20 February 2025**

### 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.





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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).

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