



## Membrane Technology in a Circular Economy

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Deadline for manuscript  
submissions:

**closed (30 December 2023)**

### Message from the Guest Editors

Dear Colleagues,

In our current linear economy, which follows a “take–make–use–dispose” model, raw materials are collected and produced into products and are then thrown away after use as waste. This model prioritizes profitability and is unsustainable. A more sustainable alternative approach is the circular economy model, where the cycles for raw materials are closed, leaving as little an ecological footprint and environmental impact as possible. Thus, a shift from the conventional linear economy into a circular economy is of urgent necessity. The role of membrane technology has grown in importance in the last few decades for many applications such as in water and wastewater treatment, desalination, gas and particle separation, pollution remediation, resource recovery, biomedical field, water–energy nexus, etc. This is mainly due to its more efficient process and cost-effectiveness over conventional techniques. The increasing use of membrane processes in many areas has catapulted membrane technology as an important driver toward a more sustainable society. Thus, membrane technology will play a critical role in achieving a circular economy.





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## Message from the Editor-in-Chief

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*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.

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