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Membrane Technology in a Circular Economy

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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

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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