

## Special Issue

# Membrane Processes in a Circular Economy: Opportunities and Challenges

### Message from the Guest Editors

Sustainable resource management necessitates the development of modern technologies to enable the management of treated sewage (recovery and recycling of water, closure of water cycles, etc.); reduction in the loss of nutrients and environmental pollution; energy recovery and energy-saving technological processes; and the effective management of waste biomass. Such activities constitute the basis for eco-development, enabling the transformation towards a circular economy in line with global trends. This Special Issue aims to review the latest achievements in the field of membrane technological solutions, enabling the minimization of industrial pollutant emissions into the natural environment through highly effective wastewater treatment and post-filtration waste management. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following topics:

- circular economy;
- water reclamation;
- nutrients recovery;
- wastewater treatment;
- membrane processes;
- new types of membranes;
- membrane manufacturing;
- membrane fouling control.

### Guest Editors

Dr. Anna Kowalik-Klimczak  
Prof. Dr. Maciej Szwast  
Prof. Dr. Marzena Smol

### Deadline for manuscript submissions

closed (20 November 2024)



## Membranes

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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.

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### Editor-in-Chief

Prof. Dr. Spas D. Kolev  
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