

## Special Issue

# Research Progress of Hemodialysis Membrane Technology

### Message from the Guest Editors

Key areas of interest include the development of advanced materials and surface modification methods to produce membranes with superior selectivity, permeability, and blood compatibility. This Special Issue also aims to highlight innovative approaches in the utilization and treatment of spent dialysate, such as toxin monitoring, dialysate regeneration, and integration of sensing technologies for real-time assessments. Submissions are invited on topics including, but not limited to, the following:

- Novel fabrication techniques and materials for hemodialysis membranes
- Antifouling strategies
- Strategies to enhance membrane biocompatibility and reduce inflammatory responses
- Smart membranes and functional coatings for improved performance
- Sustainable and innovative uses of spent dialysate
- Computational modelling and simulation of membrane behavior
- Clinical translation and safety evaluation of new membrane technologies

### Guest Editors

Dr. Sumarni Mansur

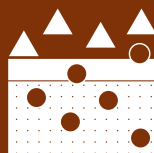
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### Deadline for manuscript submissions

30 November 2025



## 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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