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Forward Osmosis: Modelling and Applications

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Message from the Guest Editors

Forward osmosis (FO) is one of the membrane technologies that has drawn increasing interest in the last years. The main advantages of this technique in comparison with other membrane processes are the low energy cost and the low membrane fouling. However, the low permeate fluxes yielded by the FO membranes and the reverse salt flux phenomena jeopardize industrial scale applications of FO membranes.

For this Special Issue, papers on FO process modelling and research into potential applications including osmotic membrane bioreactors are welcome. The aim is to publish research works that contribute to progressing the knowledge of FO membranes, processes and new applications or including the use of new draw solutions, new membranes or novel processes for the regeneration of draw solutions.

Keywords

- forward osmosis
- osmotic membrane reactors
- draw solution
- salt reverse flux
- membrane fouling
- draw solution regeneration
- membrane fouling in forward osmosis
- cleaning of forward osmosis membranes



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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).

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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