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Recent Advances in Desalination Based on Membrane Technology

Guest Editors:

Dr. Adnan Qamar
System Modelling and Data Specialist, Water Desalination and Reuse Centre, King Abdullah University of Science and Technology (KAUST), Thuwal 23955, Saudi Arabia

Dr. Ratul Das
Senior Manager, Innovation and New Technology, Head for Desalination R&D, ACWA Power, Riyadh 13244, Saudi Arabia

Deadline for manuscript submissions:
closed (15 March 2024)

Message from the Guest Editors

Dear Colleagues,

The importance of desalination toward humanity's ability to produce high-quality freshwater sustainably and at a low cost cannot be overstated. Two-thirds of the global population live under severe water scarcity for at least one month a year. Desalination is a proven technology that helps alleviate water stress. Presently, Seawater Reverse Osmosis (SWRO) dominates the global desalination market based on the installed capacity and is replacing thermal technologies (MSF & MED). The process of desalting is still energy intensive and is associated with greenhouse gas emissions. Thus, there is an interest in improving existing technologies and exploring new disruptive technologies with higher efficiencies.

The special issue on "Recent Advances in Desalination Based on Membrane Technology" seeks contributions that explore the state-of-the-art in present desalination practice, emphasizing membrane-based technologies, while identifying future opportunities for improvements and development of potentially disruptive technologies through advances in science.

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Dr. Ratul Das
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Editor-in-Chief

Prof. Dr. Spas D. Kolev
School of Chemistry, The University of Melbourne, Melbourne, VIC 3010, Australia

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 accessjournal 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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Contact Us

Membranes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/membranes
membranes@mdpi.com
𝕏@Membranes_MDPI