

Special Issue

Applied Ion-Exchange Membrane Technologies for Sustainable Energy Production

Message from the Guest Editors

Sustainable energy production by ion-exchange membrane technology, capturing the salinity gradient energy from natural- and wastewater, and electrochemical biorefinery production, is intensively researched worldwide, and a topic of great interest today. The current most promising sustainable energy generation is pressure-retarded osmosis (PRO) and reverse electrodialysis (RED), as well as microbial fuel cell (MFC) and bioelectrochemical systems (BESs), forming the emerging sustainable biotechnologies for energy production. However, they still face economic and technical challenges, and need further considerable improvement before reaching commercial scale. In this regard, this Special Issue of the journal *Membranes* on "Applied ion-exchange membrane technologies for sustainable energy production" extends an invitation to those completing multidisciplinary studies in both academia and industry which are related to sustainable energy production technologies by applied ion-exchange membrane.

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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.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
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