Special Issue

State-of-the-art Membrane-based Desalination

Message from the Guest Editor

In this Special Issue, our goal is to disseminate the accumulated know-how on the up-to-date, state-of-the-art technologies in seawater desalination practice. In particular, we wish to put emphasis on the following aspects:

(1) One of the key factors that contributed to the lower cost of seawater desalination is the advancement of SWRO membranes. The advancement of SWRO technology for high-productivity membrane elements designed with features to yield more fresh water while lowering specific energy and GHG emission and combating fouling, given the increase in transmembrane pressure (TMP) needed to maintain constant RO flux during the operational/cleaning cycle;

(2) Identifying future opportunities in hybrid SWRO technologies such as renewable energy-driven SWRO, membrane distillation, forward osmosis, pressure-retarded osmosis, and reverse electrodialysis.

For this Special Issue of *Membranes*—"State-of-the-art Membrane-based Desalination,"—we encourage you to submit manuscripts discussing how membrane development, energy consumption, and emerging membrane integration will advance membrane-based desalination to meet future demands.

Guest Editor

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Deadline for manuscript submissions

closed (15 March 2019)

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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 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.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
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