# **Special Issue**

### Innovative Membrane Technology for Desalination, Wastewater Treatment and Energy Production

#### Message from the Guest Editor

The rapidly growing population and the modern lifestyle have tremendously increased the demand for freshwater and energy. In order to fulfil the demand for water, desalination and water reuse have been adopted in many parts of the world. Similarly to the traditional desalination techniques, the need for sustainable and clean energy is globally recognized. Innovative membrane processes, such as pressure-retarded osmosis (PRO) and reverse electrodialysis (RDE), have gained interest for the production of green and sustainable energy. Both processes fundamentally apply the concentration gradient for electricity production and are based on the preferential transport of water (PRO) or ions (RED) through a semipermeable membrane. The current Special Issue seeks unpublished, original research articles as well as critical reviews on all aspects of MD, FO, PRO and RED in the broad context of desalination, wastewater treatment and energy production. The specific emphasis is on membrane preparation/modification, case studies, process modeling and module design.

#### Guest Editor

Dr. Aamer Ali Department of Chemistry and Bioscience, Aalborg University, Aalborg, Denmark

### Deadline for manuscript submissions

closed (15 October 2020)



# Environments

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 5.7



mdpi.com/si/37102

Environments Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 environments@mdpi.com

mdpi.com/journal/ environments





## **Environments**

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 5.7



environments



### About the Journal

### Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

#### Editor-in-Chief

#### Prof. Dr. Sergio Ulgiati

 Department of Science and Technology, Parthenope University of Naples, Centro Direzionale, Isola C4, 80143 Napoli, Italy
School of Environment, State Key Joint Laboratory of Environment Simulation and Pollution Control, Beijing Normal University, No. 19 Xinjiekouwai Street, Beijing 100875, China

#### Author Benefits

#### **High Visibility:**

indexed within Scopus, ESCI (Web of Science), PubAg, AGRIS, GeoRef, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

#### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the first half of 2025).