

## Special Issue

# Membrane-Based Technologies and Sustainable Wastewater Treatment

### Message from the Guest Editors

With the rapid development of global industry, the environmental pollution caused by wastewater discharge has raised extensive concerns. Moreover, increasingly strict discharge standards have prompted the research and development of novel wastewater treatment technologies. Meanwhile, concerning the severe issue of freshwater resource shortages, while dealing with sewage, water recovery has also become a new demand for wastewater-treatment technology. As an alternative to traditional wastewater-treatment methods, membrane-based wastewater treatment processes have attracted much attention due to their inherent simplicity, scalable modular design, easy maintenance, and excellent separation efficiency. In recent years, membrane distillation technology has been widely explored in wastewater treatment, such as dyeing wastewater treatment, oil–water separation, and recovery of valuable components in wastewater, seawater, and brine. Compared with other membrane-based treatment methods, thermally driven membrane distillation exhibits extremely high pollutant removal rates.

---

### Guest Editors

Dr. Jiaxin Guo

Dr. Luca Fortunato

Dr. Senlin Shao

Dr. Senqing Fan

---

### Deadline for manuscript submissions

closed (1 May 2023)



Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/121426](https://mdpi.com/si/121426)

*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)



# About the Journal

## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

---

## Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, USA

---

## Author Benefits

### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

### High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)