Special Issue

Design and Preparation of Sustainable Separation Membrane for Efficient Water Purification

Message from the Guest Editors

Water scarcity and pollution are pressing global challenges demanding innovative solutions. Membrane-based technologies offer a promising approach to efficient water purification. This Special Issue aims to advance the field by exploring the design and preparation of sustainable separation membranes. We invite contributions that delve into the development of novel membrane materials, fabrication techniques, and characterization methods. Studies covering green synthesis approaches, multi-functional membrane design, and membrane performance under diverse operating conditions are especially welcome. The Special Issue also encourages research on modeling, environmental impact assessments, and case studies that address the implementation of these technologies in real-world applications. By fostering interdisciplinary research and collaboration, this Special Issue seeks to contribute to the development of sustainable and efficient water purification technologies.

Guest Editors

Dr. Shuping Wu

School of Materials Science & Engineering, Jiangsu University, Zhenjiang 212013, China

Dr. Rui Zhao

Faculty of Chemistry, Northeast Normal University, Changchun 130024, China

Deadline for manuscript submissions

20 August 2025

Separations

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 3.0

mdpi.com/si/223948

Separations
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
separations@mdpi.com

mdpi.com/journal/separations

Separations

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 3.0

mdpi.com/journal/separations

MDPI

About the Journal

Message from the Editor-in-Chief

Separations offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

Editor-in-Chief

Prof. Dr. Frank L. Dorman
Department of Chemistry, Dartmouth College, Hanover, NH 03755, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2024).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.