

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.

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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

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