Special Issue

Advanced Separation Technology for Nutrient Removal and Recovery

Message from the Guest Editors

This Special Issue aims to compile innovative research on the application of novel, efficient, and sustainable separation technologies in nutrient removal and resource recovery from diverse waste sources. The scope of this Special Issue includes, but is not limited to, the following topics:

- Membrane-based nutrient separation processes;
- Precipitation and crystallization technologies (e.g., struvite recovery);
- Adsorption and ion-exchange technologies for nutrient recovery;
- Electrochemical nutrient recovery methods;
- Nutrient recovery from secondary sources (e.g., sludge ash from combustion or pyrolysis);
- Hybrid and integrated separation systems;
- Advanced biological separation methods;
- Nutrient-selective materials development;
- Life cycle assessment and footprint analyses (carbon, environmental, nutrient);
- Pilot and full-scale applications demonstrating practical feasibility.

Guest Editors

Dr. Lei Li

School of Civil and Environmental Engineering, Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798, Singapore

Dr. Hui Xu

College of Environmental Science and Engineering, Donghua University, Shanghai 201620, China

Deadline for manuscript submissions

30 April 2026

Separations

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 4.5

mdpi.com/si/248421

Separations
Editorial Office
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 2.7
CiteScore 4.5

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 16.3 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).

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.