# **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**

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### Deadline for manuscript submissions

30 April 2026



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mdpi.com/si/248421

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## 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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