

## Special Issue

# Application of Adsorption and Separation Technologies in Water Treatment

### Message from the Guest Editors

Environmental pollution, particularly in water, has significantly disrupted the fragile equilibrium of ecosystems, posing a threat to both biodiversity and human health. Various remediation technologies have been investigated to mitigate water pollution and protect the environment, with adsorption emerging as one of the most common and effective techniques owing to its low cost, simple operation, strong practicality, and environmental-friendliness, as well as the simple regeneration of adsorbents.

This Special Issue is dedicated to the development of smart and responsive adsorbents, both natural and synthetic, that exhibit enhanced efficacy in the removal of a wide range of organic and inorganic pollutants from water. The topics of interest include, but are not limited to, the following areas: strategies for the preparation of adsorbents, the examination of various operational and environmental conditions affecting adsorption performance, adsorption mechanisms, thermodynamics, equilibrium and kinetic studies of adsorption, aspects of adsorbent regeneration, and integrating adsorption with other separation processes.

---

### Guest Editors

Dr. Jelena Mitrović

Dr. Nena Velinov

Dr. Miljana Radović Vučić

---

### Deadline for manuscript submissions

20 December 2025



## Separations

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 4.5



[mdpi.com/si/237242](https://mdpi.com/si/237242)

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

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





# Separations

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 4.5



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



## 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.