# Special Issue

# Eco-Friendly Innovations for Water Purification: Advanced Oxidation and Sustainable Cleanup Solutions

## Message from the Guest Editors

Water contamination remains one of the most pressing environmental challenges of our time, significantly impacting ecosystems, public health, and global economies. The topic of this Special Issue has garnered international attention, as reflected in initiatives like the European Green Deal and the United Nations Sustainable Development Goals, which emphasize reducing environmental pollution, ensuring clean water access, and protecting aquatic ecosystems. Unfortunately, many aquatic bodies are contaminated by various organics, which cannot be removed via the most commonly applied water treatment techniques. Thus, powerful and eco-friendly alternatives should be developed and employed in the removal of organic pollutants. AOPs are considered sustainable and efficient techniques in the removal of different organics. AOPs are based on the generation of harmless but reactive oxygen species, which attack the present compounds and mineralize them to harmless CO2, H2O, and inorganic ions. The most regularly investigated AOPs are the Fenton process, ozone-based AOPs, photocatalysis, plasma-based AOPs, and most innovative ones, EAOPs.

## Guest Editors

Dr. Szabolcs Bognár

Prof. Dr. Predrag Putnik

Prof. Dr. Daniela Šojić Merkulov

## Deadline for manuscript submissions

10 November 2025


**Separations**

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 4.5

mdpi.com/si/231596

*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.