

Special Issue

Application of Green Separation Technology in Wastewater Treatment

Message from the Guest Editor

The separation of organic or inorganic pollutant materials using membrane, adsorption, and catalytic degradation, as well as Fenton processes, is prominent. The synthesis of structured carbon and nanoparticles plays a vital role in the sustainable separation of foreign components from water, air and soil to preserve an eco-friendly environment. The functionalization of structured nano or microporous materials can extract value-added products such as carbon or biofuel from lingo-cellulosic residues. Moreover, the functionalization of nanoparticles can also enhance antioxidant properties for scavenging free radicals. This Special Issue aims to highlight smart, structured micro or nanoporous materials for industrial applications. Some potential topics might include, but are not limited to: innovative synthesis protocols based on advanced nanotechnology; smart materials; novel preparation; and eco-friendly, sustainable manufacturing technology. Authors are also encouraged to highlight the performance of synthesized materials in versatile fields for the separation [...] For further reading, please follow this link:

https://www.mdpi.com/journal/separations/special_issues/83040T28G5

Guest Editor

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).