Special Issue

Absorption, Adsorption Technologies and Materials of Industrial Exhaust

Message from the Guest Editors

The absorption and adsorption technologies for industrial exhaust treatment is a critical area of research, driven by the urgent need for effective pollution control solutions. These technologies are essential for improving process efficiency while simultaneously reducing environmental impact. This Special Issue aims to showcase recent advancements in absorption and adsorption methods, with a particular emphasis on the development of innovative materials that enhance the capture and removal of pollutants from industrial emissions. A thorough examination of process intensification strategies is vital for optimizing these technologies, ensuring high performance and minimizing the generation of unwanted byproducts. We invite contributions that investigate novel approaches, materials, and process designs that advance the state of industrial exhaust treatment. This includes interdisciplinary studies that explore the synergies between different technologies and methodologies.

Guest Editors

Dr. Zhi Qian

College of Resources and Environment, University of Chinese Academy of Sciences, Beijing, China

Dr. Le Sang

School of Chemistry and Chemical Engineering, Beijing Institute of Technology, Beijing, China

Deadline for manuscript submissions

10 August 2025

Separations

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 4.5

mdpi.com/si/222328

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.