

Special Issue

Innovative Adsorption Materials and Extraction Technology for Food Sample Detection

Message from the Guest Editors

This Issue emphasizes the integration of material science, process engineering, and analytical chemistry to optimize the extraction of target compounds—such as allergens, pesticides, or mycotoxins—while minimizing co-extraction of interfering substances. Advanced analytical tools, including high-resolution chromatography, tandem mass spectrometry, and hyphenated spectroscopic techniques, are critical for validating extraction efficiency, ensuring extract purity, and enabling precise quantification of trace-level analytes. Furthermore, computational modeling and machine learning applications in process design will be highlighted to bridge experimental and theoretical advancements. We invite contributions spanning original research, methodological innovations, and comprehensive reviews that explore novel materials, scalable technologies, or interdisciplinary strategies to enhance food safety protocols. Submissions addressing real-world applications, such as rapid on-site detection or industrial-scale implementation, are particularly encouraged.

Guest Editors

Prof. Dr. Hangzhen Lan

College of Food Science and Engineering, Ningbo University, Ningbo, China

Dr. Peipei Qi

Institute of Agro-Product Safety and Nutrition, Zhejiang Academy of Agricultural Sciences, Hangzhou, China

Deadline for manuscript submissions

20 July 2026



Separations

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 4.5



mdpi.com/si/237902

Separations
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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.

Journal Rank:

CiteScore - Q2 (Analytical Chemistry)

Rapid Publication:

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).