Special Issue

Chemical and Contaminant Residue Analysis via Chromatography

Message from the Guest Editors

Traces/residues of organic contaminants and chemicals in a broader context are at the forefront of analytical chemistry and its applications. In this Special Issue, we aspire to collect current works in the field of chromatographically separating a plethora of chemicals in various commodities, emphasizing food, biological, and environmental samples. Studies using gas/liquid mass spectrometry (single and tandem) and high-resolution mass spectrometry (HRMS) are highly welcome to cover both targeted and untargeted chemical analyses in the investigated matrices. Risk assessment is also an area we seek to cover in this Special Issue to demonstrate the connection between analytical findings and the potential health effects that these chemicals can elicit on humans and the environment. This collection of papers can serve as a series of autonomous works that, in parallel, have a logical connection between them to provide a rationalized flow of knowledge, covering the majority of technological advances in mass spectrometry for contaminant residue chromatographic analysis and the needs of the analytical community, from students to researchers.

Guest Editors

Dr. Evangelia Tzanetou

Benaki Phytopathological Institute, Department of Pesticides Control and Phytopharmacy, Laboratory of Chemical Control of Pesticides, 8 Stefanou Delta Street, Kifissia, 14561 Athens, Greece

Dr. Konstantinos M. Kasiotis

Laboratory Pesticides' Toxicology, Scientific Directorate of Pesticides' Control & Phytopharmacy, Benaki Phytopathological Institute (BPI), 14561 Athens, Greece

Deadline for manuscript submissions

10 November 2025

Separations

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 4.5

mdpi.com/si/205248

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.