Special Issue

Determination of Pesticides and Drug Residues by Liquid Chromatography-Mass Spectrometry

Message from the Guest Editor

Food safety and the protection of consumers is assumed, today, to be one of the top priorities. The need for constant control is due to the abusive use of certain pesticides in farms and veterinary medicines as growth promoters in animal production. To prevent the consequent health problems in humans and animals, the development of analytical methods for the determination of contaminant residues in food and feed is mandatory in food safety. To fulfill the specificity and selectivity criteria obligatory for an accurate detection, the use of chromatography coupled with mass spectrometry as the main analytical tool is necessary. Low-resolution mass spectrometry (LR-MS), as a coupled triple quadrupole, is the first choice in routine analysis and allows single determinations and multi-compound detection. The use of high-resolution mass spectrometry (HR-MS) in residue analysis has been increasing, offering the possibility of simultaneous analysis, without limitation in the number of compounds. Such techniques are also widely applied in the nutritional characterization of food products as a tool of choice.

Guest Editor

Dr. Andreia Freitas

National Institute for Agricultural and Veterinary Research (INIAV), Rua dos Lágidos, Lugar da Madalena, 4485-655 Vila do Conde, Portugal

Deadline for manuscript submissions

closed (20 March 2024)

Separations

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 4.5

mdpi.com/si/120863

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.