Special Issue

Applications of Chromatographic Techniques Interfaced to Advanced Detectors

Message from the Guest Editor

Chromatographic techniques are very powerful tools in many scientific areas due to their applicability to compounds with very different physicochemical properties and the possibility of coupling them with several detectors. In addition to the classical detectors employed in routine protocols, hyphenated analytical techniques, such as gas chromatography or liquid chromatography interfaced with low resolution mass spectrometry using a single quadrupole, as well ion trap or triple quadrupole analyzers, are well established and widely used in many applicative fields. Nevertheless, the evolution of these techniques, such as GC or LC coupled with high resolution mass spectrometry (especially with time of flight and orbitrap mass analyzers), has tremendously extended the potential of these instruments, giving rise to the possibility of the unambiguous identification and structural elucidation of unknown compounds through accurate-mass full-spectrum data acquisition. The aim of this Special Issue is to collect original research papers and review articles focused on recent advances in the application of chromatographic techniques interfaced with advanced detectors.

Guest Editor

Prof. Dr. Antonio Tagarelli
Department of Chemistry and Chemical Technologies, University of Calabria, Arcavacata, Italy

Deadline for manuscript submissions

closed (31 October 2022)

Separations

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 3.0

mdpi.com/si/120958

Separations
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 2.5
CiteScore 3.0

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 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2024).

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.