



Application of Chromatography in Analytical Chemistry

Guest Editors:

Dr. Luca Scotti

Dipartimento di Scienze Orali,
University “G. d’Annunzio” of
Chieti-Pescara, Via dei Vestini,
66100 Chieti, Italy

Prof. Antonio Aceto

Dipartimento di Scienze Orali,
University “G. d’Annunzio” of
Chieti-Pescara, Via dei Vestini,
66100 Chieti, Italy

Deadline for manuscript
submissions:

closed (31 October 2023)

Message from the Guest Editors

The separation of molecules from a complex matrix is one of the most challenging processes and is the pivot for most analytical processes. Nanomaterials (NMs)-based processes and separation techniques have been successfully applied exploiting their nanoscale size, high area/volume ratio, unique surface functionalization properties, durability, reusability, etc. Carbon-compound nanomaterials (CNMs), silica, polymeric NPs, metallic or metal oxide, magnetic NPs, and metal–organic frameworks are the most commonly used NMs in diverse separation platforms. This relatively new field has shown future promise to overcome various challenges of convention separation techniques; nevertheless, the commercial utility of NP-based separation platforms is poor, mostly due to failure of reproducibility. The development of new nanomaterials pertaining to the different properties of NPs will certainly assist in the standardization of these techniques to improve laboratory and industrial applications. The challenge is applying chromatographic techniques with new supports and making methods reproducible by coupling the techniques with new, increasingly sensitive detectors (e.g., MS).





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Frank L. Dorman

Department of Chemistry,
Dartmouth College, Hanover, NH
03755, USA

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, *Chromatography*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [CAPus / SciFinder](#), and [other databases](#).

Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 13.6 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 2023).

Contact Us

Separations Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/separations
separations@mdpi.com
[X@Sep_MDPI](#)