

## Special Issue

# Liquid Chromatography: Development of Separation Techniques

### Message from the Guest Editor

Liquid chromatography is very widely used in the determination of both polar and non-polar compounds. The advantages of this technique include high efficiency, good resolution, high sensitivity, high process speed and the use of high pressures. These favorable parameters are achieved by introducing columns with small grains (1.7  $\mu\text{m}$ ). Due to the growing need to identify and determine more and more new analytes and metabolites in complex biological matrices, stationary phases with new fillings (e.g., imitating biological membranes), are used. Additionally, by miniaturization of the chromatographic columns, both the analysis time and the consumption of solvents are significantly reduced. In addition, the use of chemometric tools allows for the development of chromatographic conditions prior to injection.

Therefore, it is my pleasure to invite you to contribute your research article, communication, or review paper to this Special Issue dedicated to the development of new chromatographic methods in the analysis of biologically active compounds, natural products and drugs, the use of new stationary phases, and the modelling of chromatographic conditions.

---

### Guest Editor

Dr. Justyna Walczak-Skierska

Interdisciplinary Centre for Modern Technologies, Nicolaus Copernicus University in Toruń, Wilenska 4, 87-100 Toruń, Poland

---

### Deadline for manuscript submissions

closed (25 December 2022)



## Separations

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 4.5



[mdpi.com/si/113723](https://mdpi.com/si/113723)

*Separations*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[separations@mdpi.com](mailto: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.

#### 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.