

Special Issue

Extraction and Application of Functional Components in Food

Message from the Guest Editors

Functional components are (bio)molecules with the capacity to modulate one or more metabolic processes or pathways in the human body, resulting in health benefits and the promotion of wellbeing.

Functional components can be found in food, beverages, and byproducts and include carotenoids, dietary fiber, fatty acids, flavonoids, isothiocyanates, phenolic acids, plant stanols and sterols, polyols, prebiotics and probiotics, and phytoestrogens. Some properties which link functional components to potential health-modulating roles and functions can be classified into antioxidation, anticancer, antidiabetic, anti-inflammatory, cardiovascular, antimicrobial, immunomodulatory, and anti-hypertensive. In this context, functional components can be applied in the food industry as replacers of synthetic food additives.

This Special Issue on the “Extraction and Application of Functional Components in Food” will focus on: i) the extraction, separation, and isolation of functional components from food, beverages, and byproducts; ii) the main analytical techniques used to quantify/characterized functional components; and iii) application of functional components in food and beverages.

Guest Editors

Dr. Maria Fátima Barroso

Dr. Miguel Ángel Prieto Lage

Dr. Aurora Silva

Deadline for manuscript submissions

closed (20 January 2023)



Separations

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 4.5



mdpi.com/si/126045

Separations
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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.