

Special Issue on
Flavonoids: Their Isolation, Characterization, and Health Benefits

CALL FOR PAPERS

Flavonoids, a class of secondary metabolites with variable phenolic structures that have a C₆-C₃-C₆ carbon framework, are found in fruits, vegetables, grains, nuts, onions, parsley, berries, bark, roots, stems, flowers, dark chocolate, and wine. The abundance of flavonoids combined with their low toxicity in comparison to other plant constituents means that they could be consumed in larger quantities by animals and humans. Flavonoids are well acknowledged for their valuable health effects, and efforts are being made to isolate them from plants and herbs. They are now considered to be an essential constituent in a variety of pharmaceutical, medicinal, and cosmetic applications. This is due to their antioxidative, anti-inflammatory, antimutagenic, and anticarcinogenic properties, together with their ability to adjust key cellular enzyme functions. Research on flavonoids, their isolation, characterization, and possible applications due to their health benefits, has received additional attention with the discovery of the association of flavonoids with low cardiovascular mortality and the extrapolation of flavonoids to use as potential drugs for preventing chronic diseases.

The objective in collecting this special issue on flavonoids' isolation, identification, and characterization is to offer chemists from different disciplines, an insight into the scope and complexity of this multifaceted field.

There is no limitation on the topics as long as they fall in the regime of flavonoids chemistry. Original articles as well as review articles on the below topics or other topics related to the chemistry of flavonoids would be welcomed.

Potential topics include but are not limited to the following:

- ▶ Extraction and isolation of flavonoids, isoflavanoids, and neoflavanoids from plants and herbs using analytical chemistry methods
- ▶ The identification and characterization of different types of flavonoids using NMR
- ▶ Comparisons of analytical methods for distinguishing types of flavonoid
- ▶ Studies on the differences in flavonoid quality and purity depending on the extraction method
- ▶ Characterization of flavonoids, isoflavanoids, and neoflavanoids extracted from herbs and comparison studies on their effects and applications

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jchem/analytical.chemistry/sicpo/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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