

Special Issue

Application of Spectroscopy and Chemometrics in Food Analysis

Message from the Guest Editor

This Special Issue aims to gather high-quality original research articles, reviews, and methodological papers that present recent advances, innovative applications, and data-driven strategies combining spectroscopy, chemometrics and artificial intelligence models for food analysis. Contributions addressing both fundamental developments and practical industrial implementations are particularly welcome.

Topics of interest include, but are not limited to, the following:

- FTIR, NIR, MIR, and Raman spectroscopy in food analysis
- Hyperspectral and multispectral imaging
- Chemometrics and multivariate data analysis
- Machine learning and artificial intelligence for spectral data
- Food authenticity, fraud, and adulteration detection
- Quality control and process analytical technology (PAT)
- Shelf-life prediction and freshness monitoring
- Portable/handheld and on-site sensing technologies
- Non-destructive and green analytical methods
- Traceability and food integrity assessment
- Applications in agricultural products and sustainable food systems

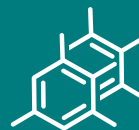
Guest Editor

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About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the first half of 2026).