

## Special Issue

# Advanced Extraction Technologies for Food Bioactive Compounds: Implications for Nutrition and Disease Prevention

### Message from the Guest Editors

Advanced extraction technologies are reimagining the recovery of high-value bioactive compounds from food matrices, enhancing yield, stability, and bioavailability while meeting the demand for greener, scalable solutions. This Special Issue stands out by linking cutting-edge methods directly to mechanistic health benefits, personalized nutrition, and industrial application pathways. Techniques, such as supercritical fluid extraction (SFE), ultrasound-assisted extraction (UAE), microwave-assisted extraction (MAE), enzymatic extraction, pulsed electric field (PEF)-assisted extraction, pressurized liquid extraction (PLE), cold plasma pretreatment and the use of natural deep eutectic solvents (NADES), offer sustainable alternatives to traditional processes. Further examples include polyphenol-rich extracts modulating inflammatory pathways, flavonoids supporting cardiovascular health, and carotenoids enhancing antioxidant defenses.

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### Deadline for manuscript submissions

20 September 2026



## Foods

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*Foods* (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

### Editor-in-Chief

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