Special Issue

Innovative Sustainable Methods for Food Component Extraction

Message from the Guest Editors

The food industry is increasingly prioritizing sustainable separation techniques for extracting food components, driven by heightened consumer demand for environmentally responsible practices and regulatory pressures. Recent technological advancements, such as innovative filtration systems, supercritical extraction methods, and microwave-assisted extraction, are revolutionizing the landscape by minimizing resource consumption and energy usage while enhancing the efficiency and quality of food products. These methods not only improve the purity and yield of bioactive compounds but also align with global sustainability goals, addressing the urgent need for eco-friendly practices in food processing. However, challenges remain, including high initial costs and technical limitations that can hinder widespread adoption. Ongoing research is crucial to develop cost-effective solutions and optimize these technologies further. As the market for functional foods continues to expand, exploring various extraction methods that deliver high-quality ingredients with minimal ecological impact is essential.

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Deadline for manuscript submissions

10 October 2025

Separations

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 4.5

mdpi.com/si/228249

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