Special Issue

Emerging Strategies for Sustainable Food Systems via High-Efficiency Valorization of Food Processing Wastes

Message from the Guest Editor

The global food system faces urgent challenges from rising waste generation, resource depletion and environmental impacts. This Special Issue of Foods highlights innovative strategies to transform food processing residues into valuable products, advancing more sustainable and circular food systems. We welcome research and reviews on high-efficiency valorization approaches, including the biorefinery concept for integrated conversion of by-products into energy, biomaterials and functional ingredients. Submissions from multidisciplinary fields—food science, biotechnology, engineering, chemistry, environmental sciences, and data-driven methods—are encouraged to address the complexity of waste upcycling. Topics may include process optimization, novel product development and the application of tools such as artificial intelligence to support efficient waste conversion.

By presenting emerging solutions and cross-disciplinary collaborations, this Special Issue aims to promote sustainable practices, reduce environmental burdens and unlock new opportunities for resource recovery.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

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.

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