

Special Issue

Innovative Approaches to Circular Agriculture: Incorporating Green Chemistry and Waste Valorization

Message from the Guest Editors

The constant increase in the global population has led to a rise in food waste generation across the industrial, agricultural, and household sectors. Despite being rich in bioactive compounds such as polysaccharides, proteins, carotenoids, and phenolics, only a quarter of this waste is repurposed as animal feed, while the majority is discarded. Beyond the issue of food loss, these practices have significant environmental, economic, and social consequences, depleting essential resources such as water, land, and energy.

This Special Issue will enhance our understanding of effective agricultural by-product management, aiming to reduce the environmental impact of waste accumulation and develop value-added materials for integration into new industries and processes. Submissions should be aligned with the principles of green chemistry by incorporating agricultural waste valorization, environmental sustainability, and circular economy approaches. Studies examining the effects of management strategies and socioeconomic factors on the sustainability of agricultural waste systems are also encouraged. Both original research articles and review papers are welcome.

Guest Editors

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

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