Special Issue

Agro-Industrial Waste for Sustainable Green Production: Advancements and Challenges

Message from the Guest Editor

The growing emphasis on sustainability and circular economy principles has underscored the need for innovative strategies to reduce our environmental impact. Agro-industrial waste, produced in large volumes globally, remains an underutilized resource with significant potential for green production and value-added applications. This Special Issue invites high-quality research focused on converting agro-industrial residues into sustainable products, materials, bioenergy, and biochemicals. We welcome contributions that highlight advancements, address challenges, and explore cross-sectoral opportunities for waste valorization. Topics of interest include, but are not limited to, the following:

- The green extraction and recovery of bioactive compounds;
- Valorization strategies in food, agriculture, and biotechnology;
- The isolation and application of bioactives from agro-industrial waste;
- Environmental and economic assessments of waste utilization processes;
- Policy, regulatory, and logistical barriers to scaling up sustainable production;
- Product development efforts aimed at waste reduction in food production.

Guest Editor

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closed (20 December 2025)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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