

## Special Issue

# Unlocking the Potential of Agri-Food Waste for Innovative Applications and Bio-Based Materials, 2nd Edition

### Message from the Guest Editors

This Special Issue is devoted to new processes for the valorization of agri-food waste in the frame of circular economy. Indeed, agriculture and food production generate significant amounts of waste, including crop residues, food processing by-products, and expired or unsold food. Rather than letting these materials go to waste, there is a growing interest in finding ways to repurpose them for various innovative applications, such as (but not limited to) biodegradable packaging, biocomposites, textile production, nutraceuticals, animal feed, and sustainable products for agriculture. Future research should address the gap between residues and functional products, exploring the effectiveness of emerging technologies. In this Special Issue, we invite submissions exploring cutting-edge research and recent advances in the fields of sustainable processes for waste biomass valorization. Overall, this Special Issue advocates for harnessing the power of technological innovations to enhance resource efficiency and environmental sustainability in agriculture.

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### Guest Editors

Dr. Emanuela Calcio Gaudino

Department of Drug Science and Technology, University of Turin, I-10125 Torino, Italy

Dr. Silvia Tabasso

Department of Chemistry, University of Turin, I-10125 Torino, Italy

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### Deadline for manuscript submissions

30 November 2025



## Applied Sciences

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*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

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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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

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