

Special Issue

Organic Improvement in Agricultural Waste and Byproducts

Message from the Guest Editors

The increasing demands of a rapidly expanding global population require substantial agricultural outputs, which in turn generate significant amounts of agricultural waste and byproducts (AWB). The management of AWB is a worldwide challenge with serious environmental consequences. Agriculture heavily influences global nitrogen (N) and carbon (C) cycles through land use changes and agronomic practises. Currently, there is increasing interest in exploring the potential recovery and reuse of agricultural byproducts to reduce carbon and nitrogen losses, while enhancing efficiency and productivity. It is therefore essential to urgently support sustainable agriculture and the food supply chain by developing strategies that exploit AWB, add value to them, and ensure food security while preserving human health. This Special Issue invites research, case studies, analyses, and field trials on the chemical, physical, and biological properties of AWB. We welcome manuscripts that explore the long-term potential of AWB, Contributions addressing the application of AI to optimize waste management are also encouraged.

Guest Editors

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Deadline for manuscript submissions

closed (30 December 2025)



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Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

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Editor-in-Chief

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