Special Issue

Agricultural Residue Utilization for Development of Biofertilizers

Message from the Guest Editors

Agricultural residues, such as crop straw, livestock manure, and other organic by-products, are generated in enormous quantities worldwide. Their effective utilization is essential not only for reducing environmental burdens associated with waste accumulation and improper disposal, but also for promoting nutrient recycling, improving soil fertility, and advancing circular agriculture. Among the available valorization pathways, the conversion of agricultural residues into biofertilizers has attracted increasing attention as a sustainable strategy for transforming waste into value-added agricultural inputs. However, major challenges remain in optimizing biological conversion processes, understanding microbial transformation mechanisms, ensuring product quality and stability, and evaluating agronomic performance under diverse field conditions. In addition, emerging technologies such as artificial intelligence, machine learning, and IoT-based monitoring offer new opportunities to improve process control, predict transformation outcomes, and support smart production systems.

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Deadline for manuscript submissions

1 January 2027

Agronomy

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6

mdpi.com/si/280266

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