

Special Issue

Circular Agriculture: Waste-to-Resource Innovations in Cropping Systems

Message from the Guest Editors

This Special Issue invites interdisciplinary research on waste valorization, from biochar production to microbial upcycling and closed-loop nutrient cycling. Submissions may explore topics including (but not limited to) the agroecological integration of waste streams, digital tools for optimizing resource loops, drivers of circular adoption, and policy frameworks enabling transitions toward responsible production. Field experiments, life cycle assessments, and multi-stakeholder case studies are encouraged. We welcome original research, reviews, and perspectives that bridge scales from molecular innovations to systemic design. Contributions addressing technical barriers, scalability challenges, or synergies between circular practices and **global sustainability goals**—such as *Zero Hunger* (reducing food loss and enhancing soil health), *Responsible Consumption and Production* (minimizing waste and closing resource loops), and *Climate Action* (mitigating emissions through carbon-smart practices)—will advance actionable solutions for agriculture's future.

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