

## Special Issue

# Influence of Compost and Biochar on Soil Properties

### Message from the Guest Editors

Composting is an established practice to divert organic waste from landfills, reduce greenhouse gas emissions, generate inexpensive plant nutrients, strengthen regenerative agriculture and advance social justice. Biochar, a carbon-rich material produced by heating biomass without oxygen, when applied to soils or combined with composting, can sequester carbon for centuries, improve water retention, reduce nutrient losses, and enhance resilience to drought and extreme heat. However, biochar adoption remains limited due to high upfront costs, lack of knowledge on application rates, methods, and influence on soil health. Topics may include (but are not limited to) resilience in different textures, C:N ratios and N mineralization, rapid indicators of compost quality, weed suppression, community composting, N leaching, nutrient budgets, metagenomics and enzyme assays, PFAS, microplastics and heavy metal contamination, blended amendments, the influence of feedstock type and pyrolysis conditions on biochar function, nutrient management, PAHs and other pyrolysis byproducts, carbon markets, and regulatory compliance. We are soliciting new research and review papers.

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### Guest Editors

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### Deadline for manuscript submissions

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