



## Effects of Biochar and Compost Amendments on Soil Fertility

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### Message from the Guest Editors

Soil constraint is a major problem for plant growth and crop production. There are a couple of soil constraints that affect crop yield. Among those, the most notable ones are chemical, physical, and biological constraints. Chemical constraints are nutrient deficiencies, acidity, salinity, and sodicity that significantly impact crop production. Nutrient-deficient soil is not suitable for adequate crop production and requires a large amount of fertilizers. Physically constrained soils, which have compacted soil layers with high bulk density, low air entry, and water movement, have low soil fertility and nutrients. Soils with low organic matter content have poor biological activities with reduced diversity of soil organisms, earthworms, and arbuscular mycorrhizae. Soil amendment by biochar and compost can significantly improve soil quality by increasing the soil organic carbon, soil health, soil fertility, and agronomic benefits.





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## Message from the Editor-in-Chief

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