Article

Optimizing Biochar Application Rates to Improve Soil Properties and Crop Growth in Saline–Alkali Soil

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Table S1. Property of pristine soil and biochar.

Properties	Soil	Biochar
Na^+ (g/kg)	2.71	0.29
Ca^{2+} (g/kg)	0.24	0.21
Mg^{2+} (g/kg)	0.37	0.16
K^+ (g/kg)	0.08	18.59
SO_4^{2-} (g/kg)	3.26	2.44
Cl^- (g/kg)	2.06	16.73
HCO_3^- (g/kg)	0.144	0.920
CO_3^{2-} (g/kg)	0.012	0.195
Particle size distribution (%)		
>50 μm	65.17%	-
2–50 μm	30.92%	-
<2 μm	3.91%	-
Classification	Sandy loam	-

Table S2. The emergence rate of corn treated with different types of biochar.

Types of biochar	Emergence rate (%)
Tobacco straw biochar	0
Rice straw biochar	35
Maize straw biochar	75

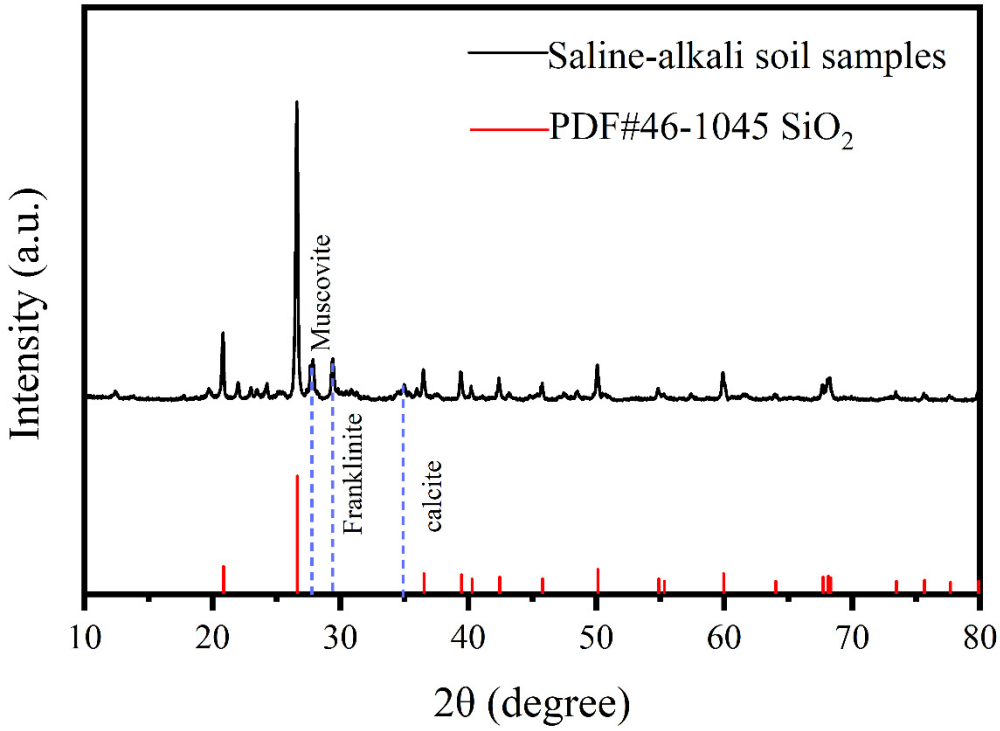


Figure S1. XRD pattern of saline-alkali soil samples.

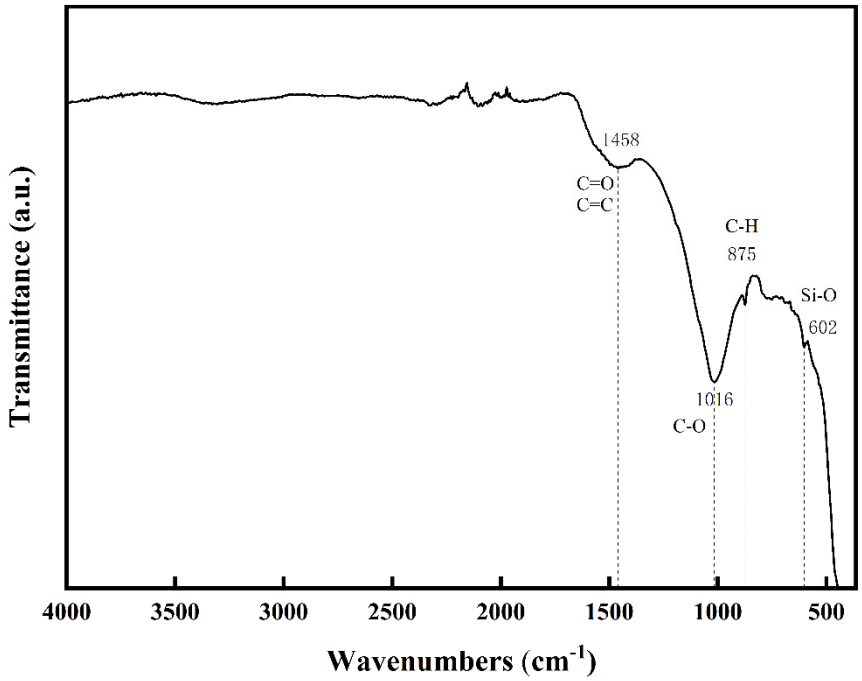


Figure S2. FTIR spectra of maize straw biochar.

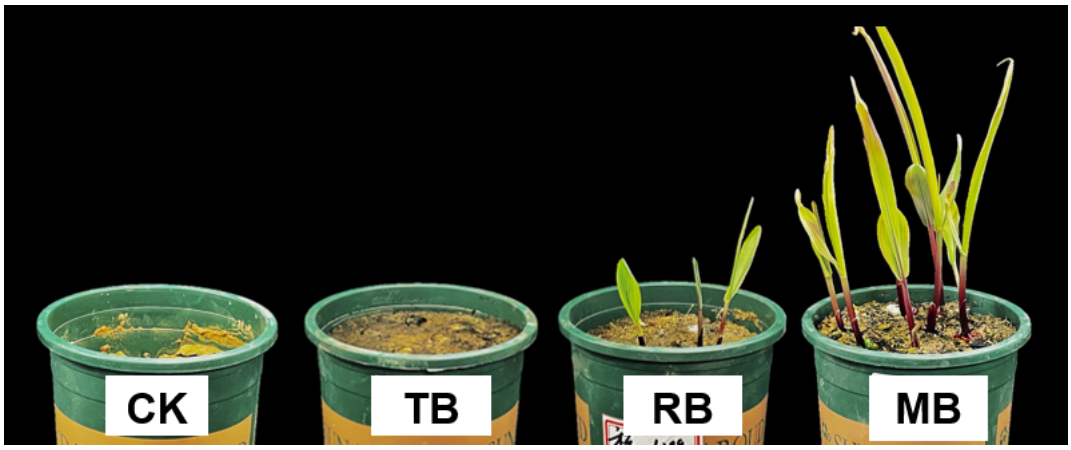


Figure S3. The effects of different types of biochar on plant growth. TB: Tobacco straw biochar; RB: Rice straw biochar; MB: Maize straw biochar.