

Supplementary information

Table S1. Contents of soil nutrient in bulk soil under different treatments.

Treatment	pH	SOC (mg/kg)	TN (mg/kg)	Available P (mg/kg)	Available K (mg/kg)
CK	8.73 ± 0.05 a	3.80 ± 0.12 c	0.43 ± 0.02 b	6.28 ± 0.63 b	90.95 ± 7.29 b
NPK	8.42 ± 0.05 c	3.88 ± 0.21 c	0.48 ± 0.03 b	12.10 ± 0.25 a	127.83 ± 13.59 a
BC	8.71 ± 0.04 a	6.33 ± 0.22 b	0.57 ± 0.01 a	7.36 ± 0.21 b	122.46 ± 9.85 a
BC+NPK	8.57 ± 0.03 b	6.71 ± 0.08 a	0.63 ± 0.06 a	12.98 ± 1.93 a	141.96 ± 0.40 a

Note: Data are means ± standard deviation, n=3. Different lowercase letters indicate the significant differences in soil nutrient contents ($P < 0.05$) among treatments. No fertilization treatment (CK), application of chemical fertilizers treatment (NPK), application of biochar treatment (BC), combined application of biochar and chemical fertilizers treatment (BC + NPK). Abbreviations: SOC, soil organic carbon; TN, total nitrogen; Available P, available phosphorus; Available K, available potassium.