

**Supplementary Table S1.** Summary of soil physicochemical properties of Lanzhou: the data have been published [11]; the significance is 0.05 for lower letters (a, b, c) presented in table

Treatment	pH	Organic Matter (g kg <sup>-1</sup> )	Alkali-Hydrolyzable Nitrogen (mg kg <sup>-1</sup> )	Available Phosphorus (mg kg <sup>-1</sup> )	Available Potassium (mg kg <sup>-1</sup> )	Available Silicon (mg kg <sup>-1</sup> )
CK	8.27 ± 0.02 <sup>a</sup>	17.00 ± 0.39 <sup>b</sup>	44.69 ± 1.22 <sup>b</sup>	50.87 ± 0.58 <sup>c</sup>	234.26 ± 3.40 <sup>c</sup>	109.34 ± 2.13 <sup>c</sup>
SF	8.25 ± 0.01 <sup>a</sup>	18.02 ± 0.13 <sup>b</sup>	52.14 ± 2.03 <sup>a</sup>	32.97 ± 0.40 <sup>b</sup>	249.48 ± 2.11 <sup>ab</sup>	121.31 ± 1.02 <sup>b</sup>
MF	8.23 ± 0.01 <sup>a</sup>	20.07 ± 0.29 <sup>a</sup>	51.28 ± 3.00 <sup>a</sup>	53.00 ± 0.28 <sup>b</sup>	246.44 ± 1.09 <sup>b</sup>	118.99 ± 0.79 <sup>b</sup>
SMF	8.18 ± 0.01 <sup>b</sup>	19.30 ± 0.49 <sup>a</sup>	51.07 ± 1.54 <sup>a</sup>	61.91 ± 0.41 <sup>a</sup>	257.67 ± 4.31 <sup>a</sup>	128.66 ± 1.75 <sup>a</sup>