

## Supplementary material

**Table S1.** Physical and chemical properties in soil.

N content (mg/kg)	P content (mg/kg)	K content (mg/kg)	pH value	Electroconductibility (μS/cm)
16±1.55	21.5±1.97	55±4.65	6.5±0.39	216.33±28.95

Note: Values presented in the table are means ± standard deviations (n = 3).

**Table S2.** The enrichment coefficient and transport coefficient of CK and Zn treatment groups.

	Root enrichment coefficient	Stem enrichment coefficient	Leaf enrichment coefficient	Transfer coefficient
CK	0.911 ± 0.011D	1.026 ± 0.020D	1.323 ± 0.008D	2.578 ± 0.009B
Zn <sub>300</sub>	2.095 ± 0.008A	1.346 ± 0.011B	2.427 ± 0.055A	1.801 ± 0.031C
Zn <sub>500</sub>	1.087 ± 0.018B	1.875 ± 0.016A	1.875 ± 0.016B	2.770 ± 0.051A
Zn <sub>700</sub>	1.032 ± 0.006C	1.232 ± 0.020C	1.672 ± 0.015C	2.811 ± 0.024A

The values shown in the table are the average value ± SD (n=3). Different letters indicate that there are significant differences among groups (one-way ANOVA,  $P < 0.05$ ).



**Figure S1.** Diagram of seedling cultivation site.