**Table S1:** Leaf characteristic of Canada goldenrod (*Solidago canadensis* L.) and Common reed (*Phragmites australis*) across the invasion gradient of *S. canadensis*, presented as mean ± standard error.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameters | F | *P* | *S. canadensis* |  | *P. australis* |
| Cellulose (mg g-1) | 1062.78 | \*\* | 101.22 ± 2.22a |  | 205.62 ± 2.30b |
| Phenol (mg g-1) | 54.61 | \*\* | 1.20 ± 0.08a |  | 0.79 ± 0.19ba |
| Flavon (mg g-1) | 351.32 | \*\* | 1.72 ± 0.07a |  | 0.84 ± 0.36b |

Different letters denote significant differences (*P* < 0.05) across the invasion gradient of *S. canadensis*. ns=not significant at the level of *P* > 0.05; \*=significant at the level of *P* < 0.05; and \*\*=significant at the level of *P* < 0.01.