Figure S1 Effect of N addition intensity and frequency on aboveground biomass in unmown (a) and mown plots (b). Dashed and solid regression lines correspond to 2 and 12 N additions year^{-1}, respectively. Error bars indicate standard error. Asterisks indicate significant difference between low and high frequency of N addition within one N addition rate and mowing management.
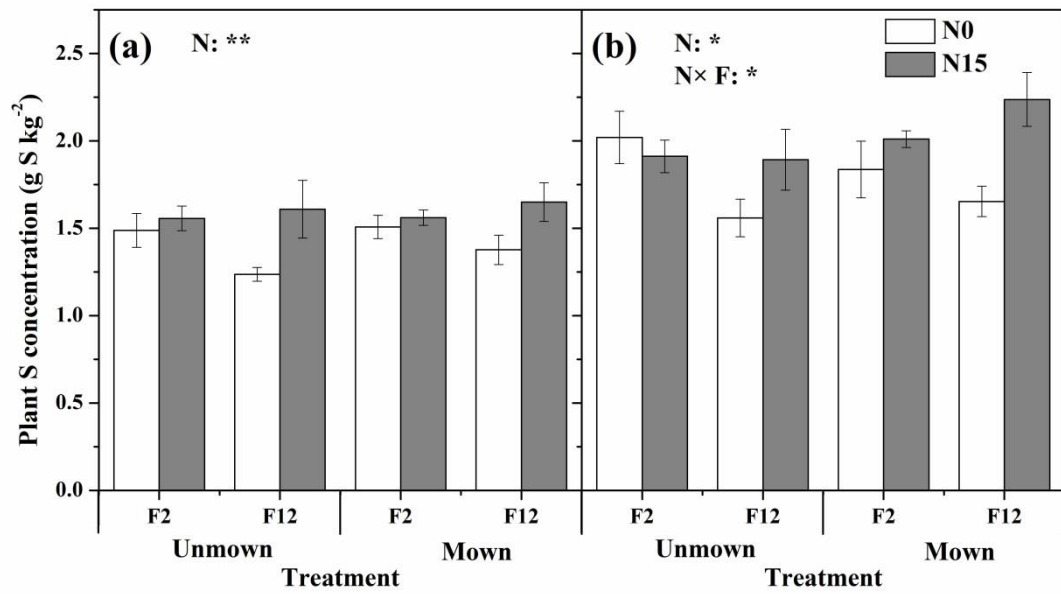
Figure S2 Effect of N addition intensity and frequency on plant S concentration in dominant species of *Leymus chinensis* (a) and *Stipa grandis* (b) without and with mowing (only plant samples in 0 and 15 g N m^{-2} year^{-1} were measured). Error bars indicate standard error. * and ** represent significance levels ($P \leqslant$ 0.05 and 0.01, respectively).
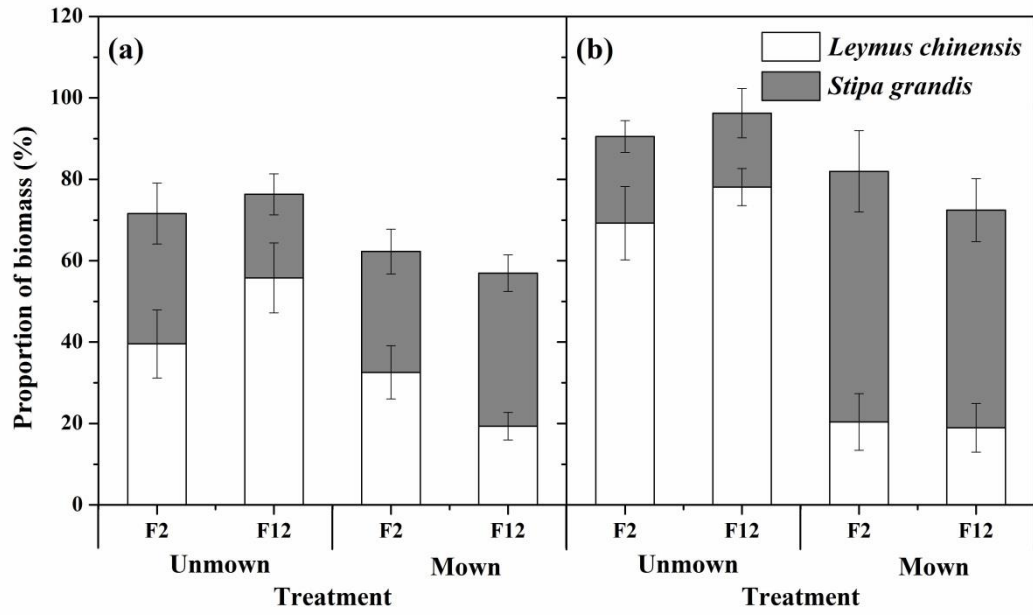
Figure S3 Effect of N addition intensity and frequency on biomass proportion of dominant species of *Leymus chinensis* and *Stipa grandis* without and with mowing (only plant samples in 0 (a) and 15 (b) g N m^{-2} year^{-1} were measured). Error bars indicate standard error.