Supplementary material

Table S1 Relative growth rate of different type species

|  |  |
| --- | --- |
| Species | Relative growth rate (M±s.e) |
| CK | N2 | N5 | N10 | N2+P | N5+P | N10+P |
| *S. purpurea* (g. g -1.d-1) | 0.037±0.007  | 0.057±0.008  | 0.062±0.006  | 0.065±0.009  | 0.065±0.004  | 0.080±0.003  | 0.077±0.003  |
| *P. litwinowiana* (g. g -1.d-1) | 0.048±0.003  | 0.063±0.006  | 0.090±0.014  | 0.085±0.009  | 0.059±0.004  | 0.098±0.005  | 0.110±0.013  |
| *C. moorcroftii* (g. g -1.d-1) | 0.031±0.010  | 0.041±0.011  | 0.046±0.002  | 0.047±0.003  | 0.046±0.009  | 0.061±0.006  | 0.063±0.009  |
| *A. nanschanica* (g. g -1.d-1) | 0.048±0.004  | 0.054±0.005  | 0.063±0.005  | 0.067±0.006  | 0.052±0.009  | 0.069±0.006  | 0.066±0.006  |
| *L. nanum* (g. g -1.d-1) | 0.043±0.013  | 0.058±0.005  | 0.063±0.013  | 0.062±0.007  | 0.060±0.009  | 0.057±0.007  | 0.068±0.009  |
| *A. densiflorus* (g. g -1.d-1) | 0.051±0.011  | 0.059±0.008  | 0.053±0.002  | 0.063±0.008  | 0.054±0.005  | 0.061±0.004  | 0.059±0.004  |



Fig S1 Above ground biomass at different treatments at 2016 in alpine steppe