

Table S1. Results from the Egger's tests of publication bias and fail-safe number on our findings.

P-values < 0.05 indicates a significant publication bias. K represents the sample size of response variables. NH₄, soil ammonia nitrogen; NO₃, soil nitrate nitrogen; TC, total carbon; SWC, soil water content; FN, foliar nitrogen; FP, foliar phosphorus; FV/FM, Maximum quantum yield of PSII; SLA, specific leaf area; WUE, water use efficiency; Pn, net photosynthetic rate; Gs, stomatal conductance; T, transpiration rate; $\delta^{13}\text{C}$, carbon stable isotope composition; SD, stomatal density;

8 SS, stomatal size.

Variables	Regtest_P_value	fsn_value	5K+10	K
pH	0.8468	0	55	9
NO ₃	<0.001	322	40	6
NH ₄	<0.001	4286	40	6
TC	0.5698	0	90	16
SWC	0.4159	469	220	42
FN	0.5464	0	125	23
FP	0.854	5	75	13
FV/FM	0.5292	173	125	23
Chlorophyll	0.5158	41	75	13
SLA	0.8202	1808	150	28
WUE	0.8379	10406	1250	248
Pn	0.2717	140	765	151
Gs	0.2301	3896	665	131
T	0.6492	0	570	112
$\delta^{13}\text{C}$	0.029	14351	265	51
SD	0.9326	59	110	20
SS	0.4568	0	55	9