

Supplementary information

(Figure S1 and Table S1)

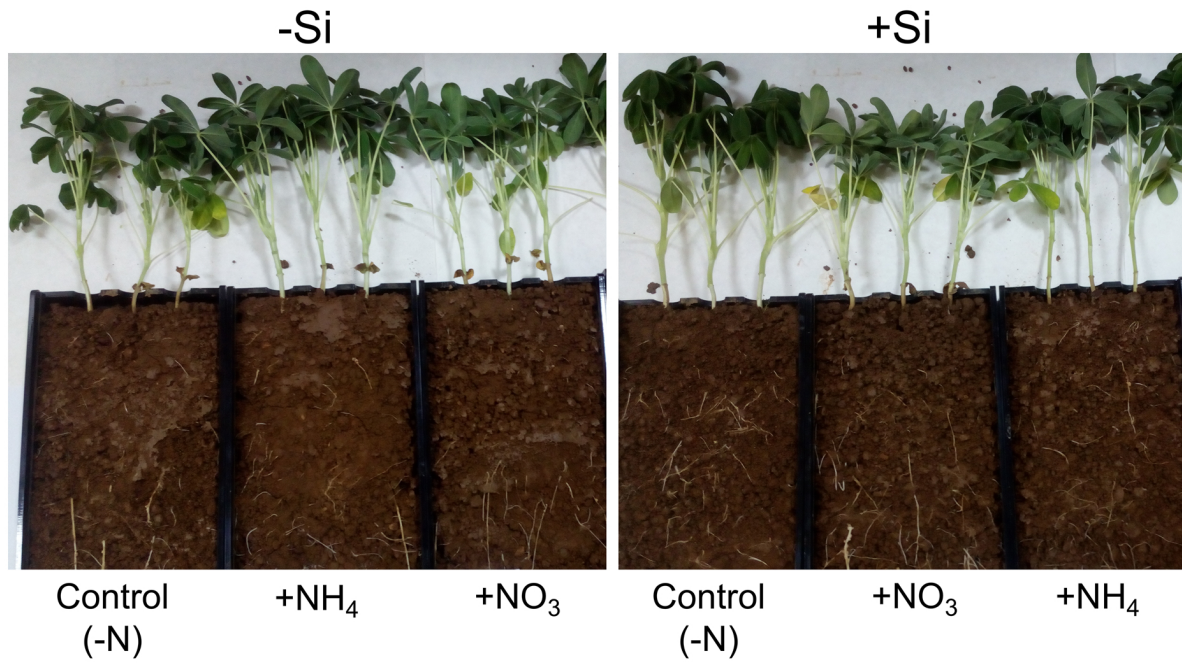


Fig. S1 The visual effects of N and Si nutrition on white lupin plants. Plants were grown in the rhizoboxes for four weeks in the control (–N), +NH₄, and +NO₃ treatments, each without (–Si) or with (+Si) supply of monosilicic acid.

Table S1 Physical and chemical characteristics of the experimental soil.

Parameters	Method	Value
Density (g cm^{-3})	Pycnometer	1.26
Sand (%)		29
Silt (%)	Hygrometer	22
Clay (%)		49
pH (in H_2O)	pH-meter	6.68
Organic C (%)		0.58
Total N (%)	CNS analyser	0.07
$\text{NH}_4\text{-N}$		0.22
$\text{NO}_3\text{-N}$	KCl extraction; ion selective electrodes	22.5
CaCO_3 (%)	Scheibler's calcimeter	0.28
CEC ($\text{cmol}_\text{c kg}^{-1}$)	Calculation	26
Exchangeable Al^{3+} ($\text{cmol}_\text{c kg}^{-1}$)	KCl extraction	0.57
Total P (mg kg^{-1})	HNO_3 extraction	257
Available P (mg kg^{-1})	Olsen (NaHCO_3 extraction)	6.53
Exchangeable K (mg kg^{-1})		105
Exchangeable Ca (mg kg^{-1})	Ammonium-acetate extraction	3266
Exchangeable Mg (mg kg^{-1})		1137
Available B (mg kg^{-1})	Hot- H_2O extraction	0.34
Available Fe (mg kg^{-1})		25.0
Available Cu (mg kg^{-1})		1.41
Available Mn (mg kg^{-1})	DTPA extraction	15.3
Available Zn (mg kg^{-1})		0.29
Available Ni (mg kg^{-1})		1.34