Supplementary material

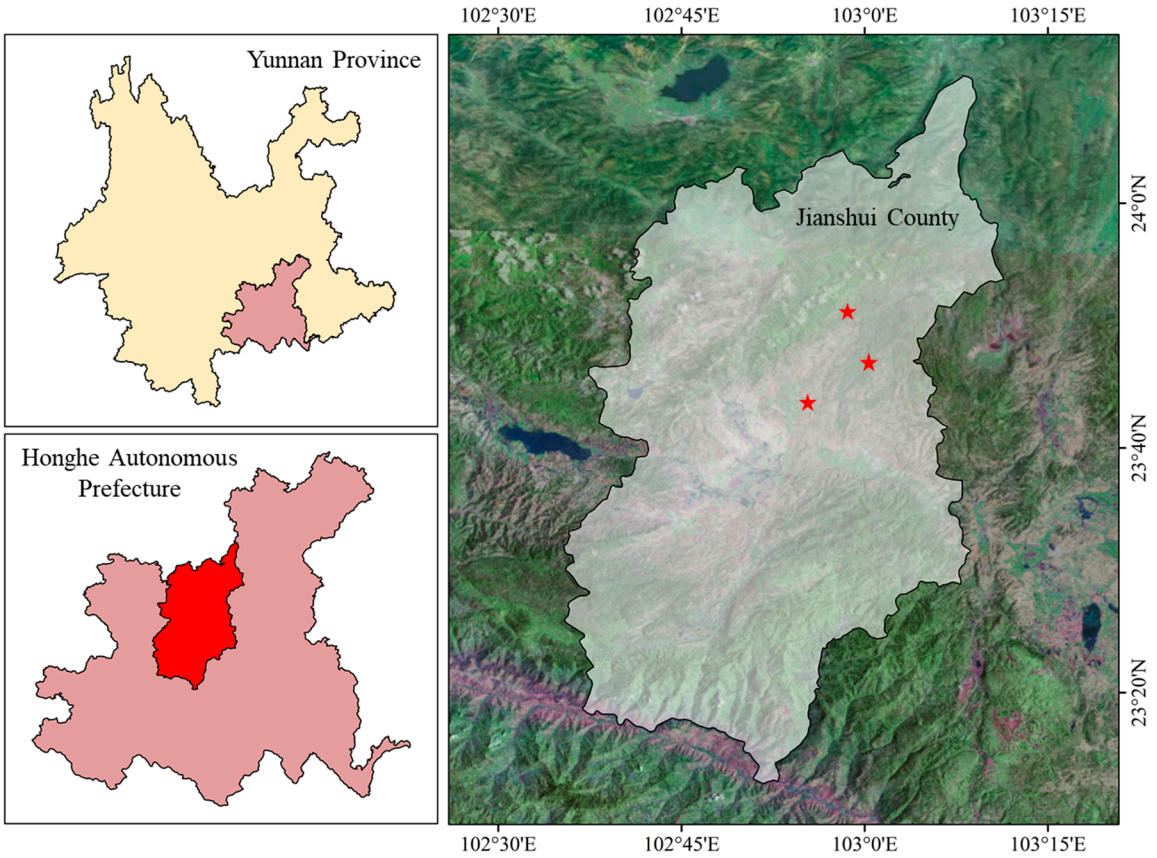


Figure S1. Location of the study area and the selected study sites in a subtropical karst forest, southwest China.

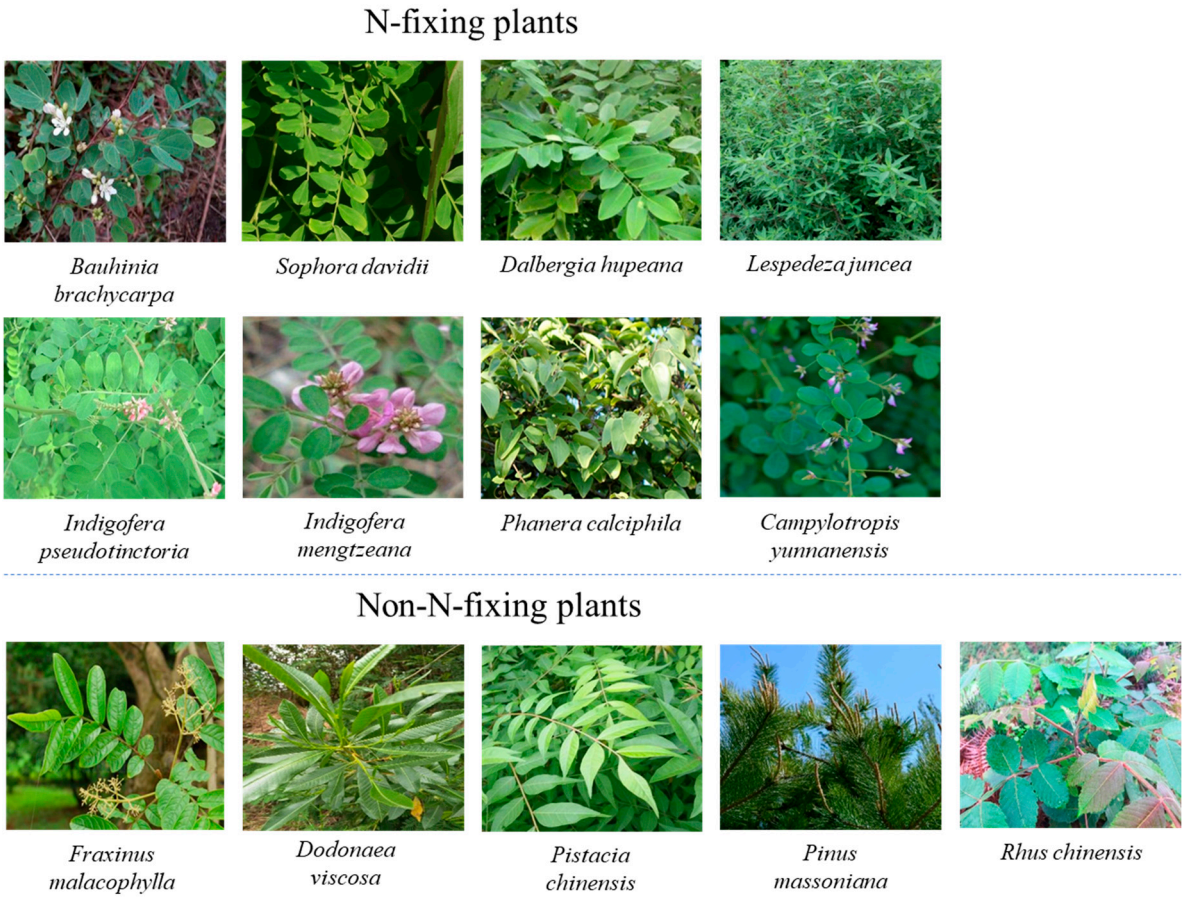


Figure S2. Images of the dominant N-fixing and non-N-fixing plants included in this study.

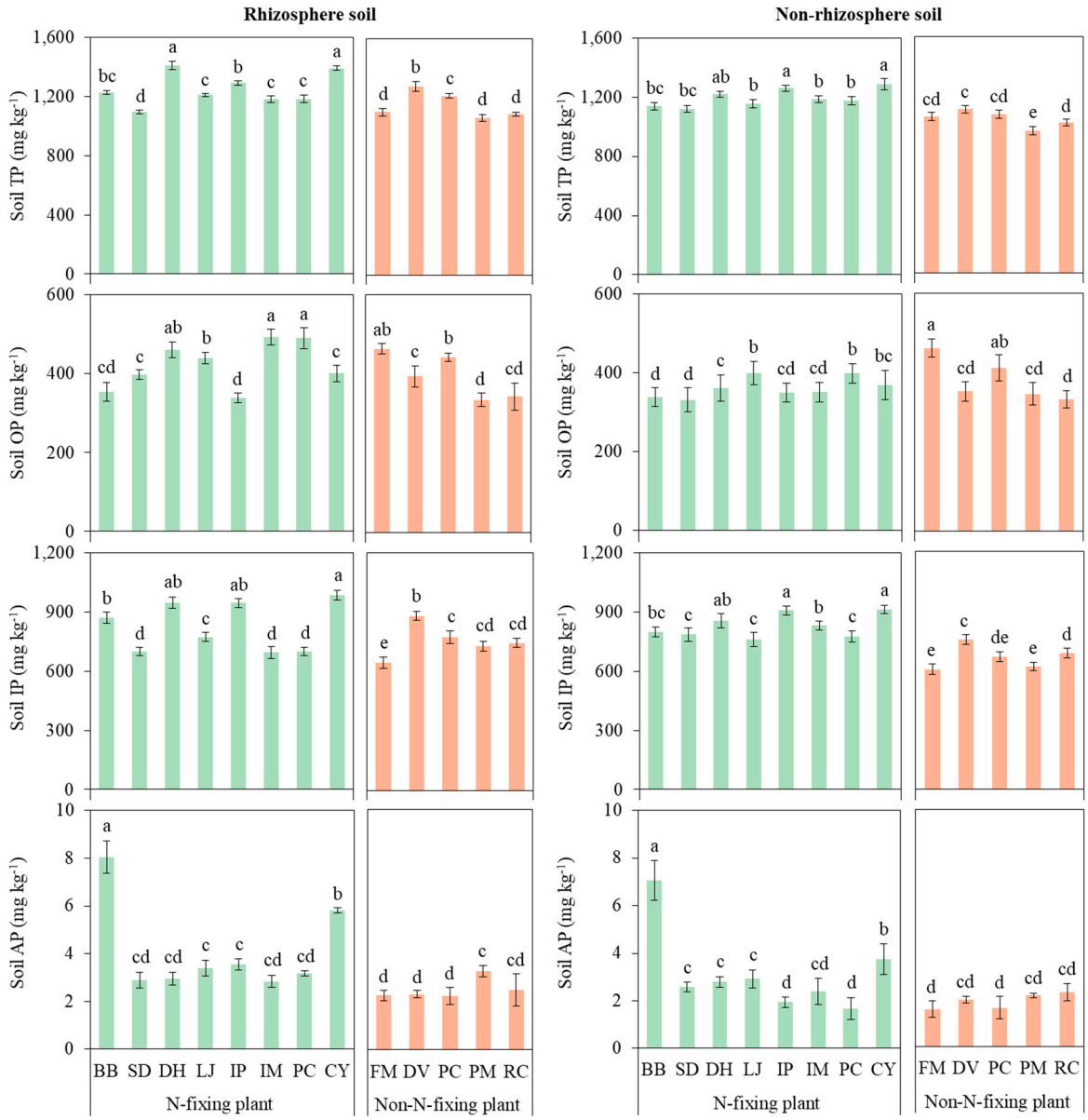


Figure S3. Soil total P, organic P, inorganic P and available P contents in rhizosphere and non-rhizosphere soils of different N-fixing plants and non-N-fixing plants (n = 3) in a subtropical karst forest in China. Different lowercase letters indicate significant differences among various N-fixing and non-N-fixing plants for rhizosphere soil or non-rhizosphere soil ($p < 0.05$). BB, *Bauhinia brachycarpa*; SD, *Sophora davidii*; DH, *Dalbergia hupeana*; LJ, *Lespedeza juncea*; IP, *Indigofera pseudotinctoria*; IM, *Indigofera mengtzeana*; PC, *Phanera calciphila*; CY, *Campylotropis yunnanensis*; FM, *Fraxinus malacophylla*; DV, *Dodonaea viscosa*; PC, *Pistacia chinensis*; PM, *Pinus massoniana*; RC, *Rhus chinensis*.

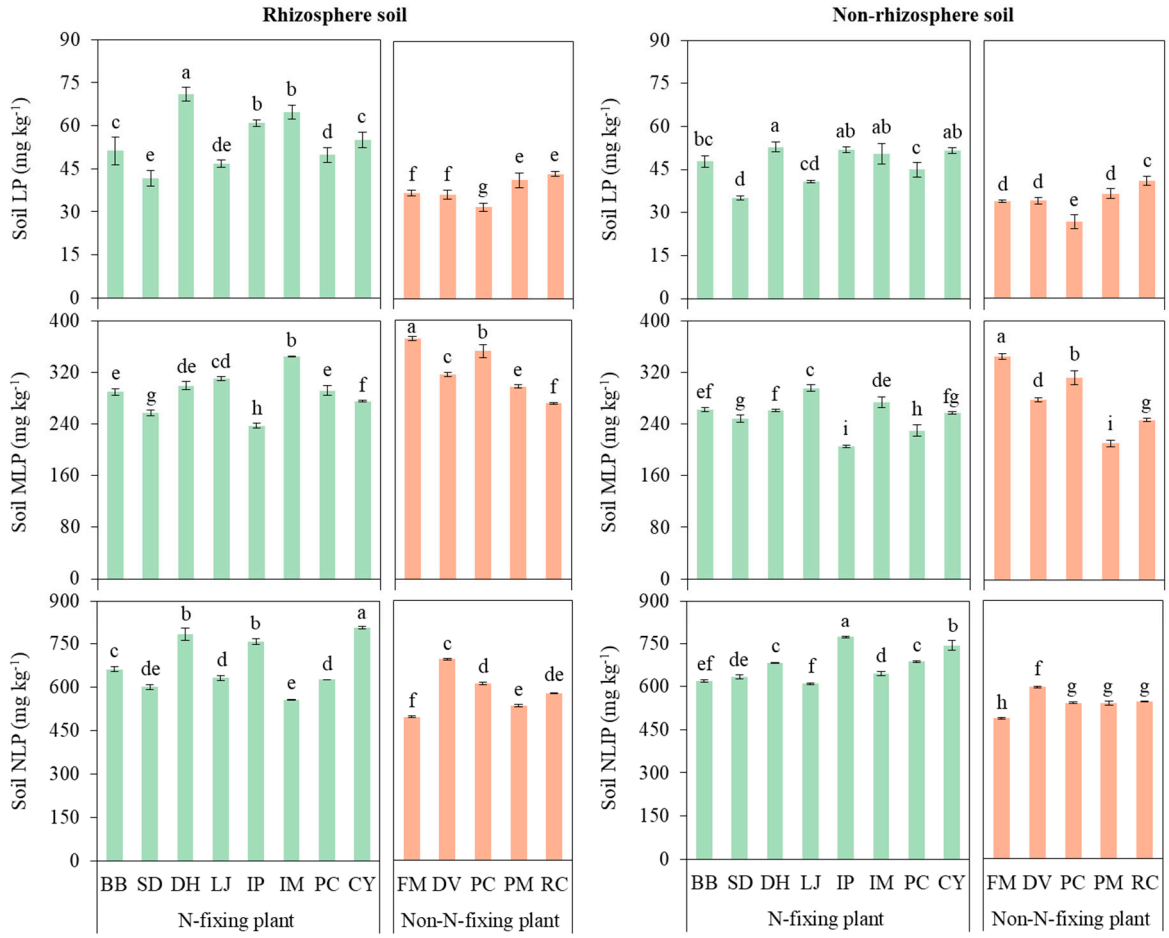


Figure S4. Soil labile P, moderately labile P and non-labile P contents in rhizosphere and non-rhizosphere soils of different N-fixing plants and non-N-fixing plants (n = 3) in a subtropical karst forest in China. Different lowercase letters indicate significant differences among various N-fixing and non-N-fixing plants for rhizosphere soil or non-rhizosphere soil ($p < 0.05$). BB, *Bauhinia brachycarpa*; SD, *Sophora davidii*; DH, *Dalbergia hupeana*; LJ, *Lespedeza juncea*; IP, *Indigofera pseudotinctoria*; IM, *Indigofera mengtzeana*; PC, *Phanera calciphila*; CY, *Campylotropis yunnanensis*; FM, *Fraxinus malacophylla*; DV, *Dodonaea viscosa*; PC, *Pistacia chinensis*; PM, *Pinus massoniana*; RC, *Rhus chinensis*.