

Table S1. Soil enzymes loadings on the first two axes of the principal component analysis. Loadings > 0.60 were shown in bold. BG: β -1,4-glucosidase; CB: cellobiohydrolase; NAG: β -1,4-N-acetyl-glucosaminidase; AcP: acid phosphatase.

	PC1	PC2
Eigenvalues	1.77	1.32
Proportion of variance (%)	44.2	33.1
Cumulative proportion (%)	44.2	77.3
BG	0.069	0.907
CB	-0.846	0.422
NAG	0.539	0.569
AcP	-0.870	0.014

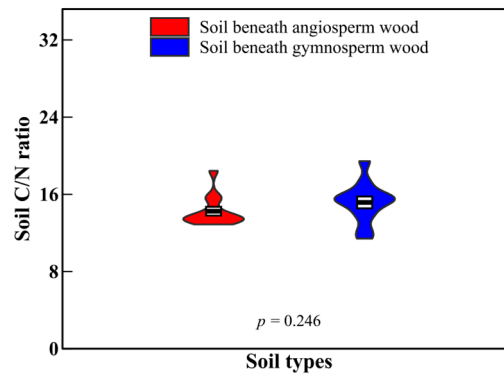


Figure S1. Effects of decomposing wood on soil C/N ratio. The crossbar within violin plots shows mean values \pm standard error ($n_{\text{Soil beneath angiosperm wood}} = n_{\text{Soil beneath gymnosperm wood}} = 12$) of soil C/N ratio beneath decomposing angiosperm and gymnosperm wood.

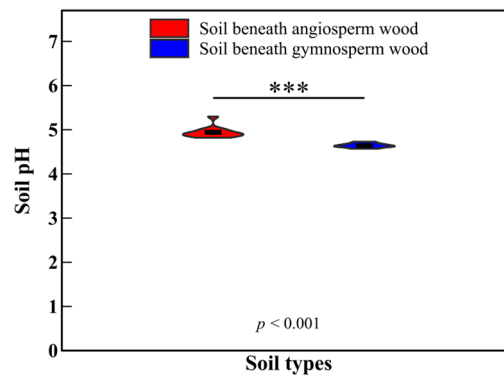


Figure S2. Effects of decomposing wood on soil pH. The crossbar within violin plots shows mean values \pm standard error ($n_{\text{Soil beneath angiosperm wood}} = n_{\text{Soil beneath gymnosperm wood}} = 12$) of soil pH beneath decomposing angiosperm and gymnosperm wood. ***, $p < 0.001$.

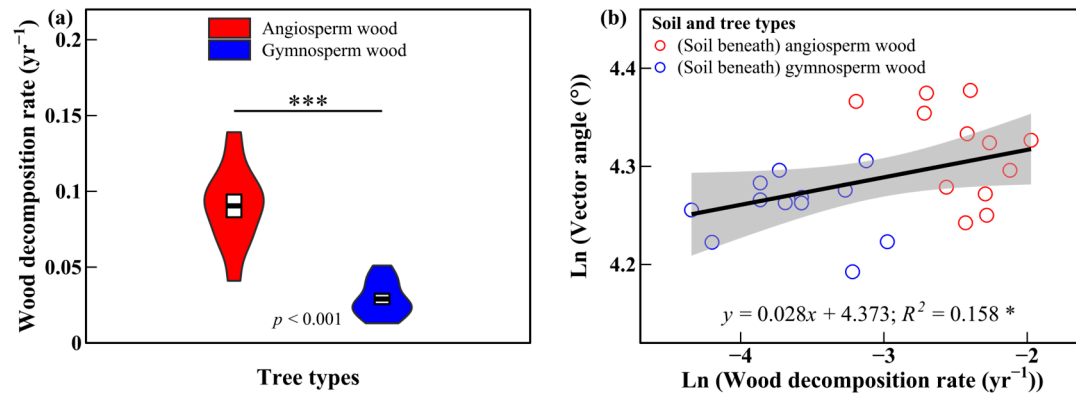


Figure S3. Effects of tree types on wood decomposition rate (a) and wood decomposition rate in relation to soil enzyme vector angle (b). The crossbar within violin plots shows mean values \pm standard error ($n_{\text{Soil beneath angiosperm wood}} = n_{\text{Soil beneath gymnosperm wood}} = 12$) of the decomposition rate of angiosperm and gymnosperm wood. *, $p < 0.05$; ***, $p < 0.001$.