

Table S1. Initial litter chemistry (mean $\pm$ SE, $n = 3$) in litter treatments.

Combinations	Carbon (g·kg ⁻¹)	Nitrogen (g·kg ⁻¹)	Phosphorus (g·kg ⁻¹)	Lignin (%)	Cellulose (%)
Masson pine	438.1a (± 3.5)	16.3c (± 0.3)	0.42c (± 0.01)	22.9b (± 0.1)	12.2b (± 0.0)
Cypress	380.9c (± 1.5)	22.2b (± 0.1)	0.73b (± 0.02)	26.1a (± 0.1)	10.2c (± 0.3)
Oak	424.6b (± 0.2)	27.5a (± 0.0)	0.81a (± 0.01)	18.8c (± 1.2)	12.9a (± 0.3)
Pine + Cypress	409.5 (± 2.2)	19.3 (± 0.1)	0.58 (± 0.02)	24.5 (± 0.1)	11.2 (± 0.1)
Pine + Oak	431.3 (± 1.8)	21.9 (± 0.2)	0.61 (± 0.01)	20.8 (± 0.7)	12.5 (± 0.1)
Cypress + Oak	402.7 (± 0.9)	24.9 (± 0.0)	0.77 (± 0.02)	22.4 (± 0.7)	11.6 (± 0.1)
Pine + Cypress + Oak	414.5 (± 1.5)	22.0 (± 0.1)	0.65 (± 0.01)	22.6 (± 0.5)	11.8 (± 0.1)

Treatments: Pine + Cypress, *Pinus massoniana* + *Cupressus funebris*; Pine + Oak, *Pinus massoniana* + *Quercus variabilis*; and so on. Different lowercase letters indicate a significant difference between individual species for given variable at $p < 0.05$.

Table S2. Average Temperature (°C) and Cumulative Precipitation (mm) in each phase of decomposition.

Decomposition Phases	0–60	61–120	121–180	181–240	241–300	301–360
Average Temperature	6.8	10.9	19.6	25.2	24.6	15.2
Cumulative Precipitation	20.6	128.9	252.2	253.2	296.0	144.9