

Fig. S1 The community composition of bacteria (A) and fungal (B) at the level of phylum in the broadleaved forest soil during the incubation. CK, with no litter; 0% PP, bamboo litter occupying at 0%; 33% PP, bamboo litter occupying at 33%; 50% PP, bamboo litter occupying at 50%; 67% PP, bamboo litter occupying at 67%; 100% PP, bamboo litter occupying at 100%. Error bars indicated standard deviation.

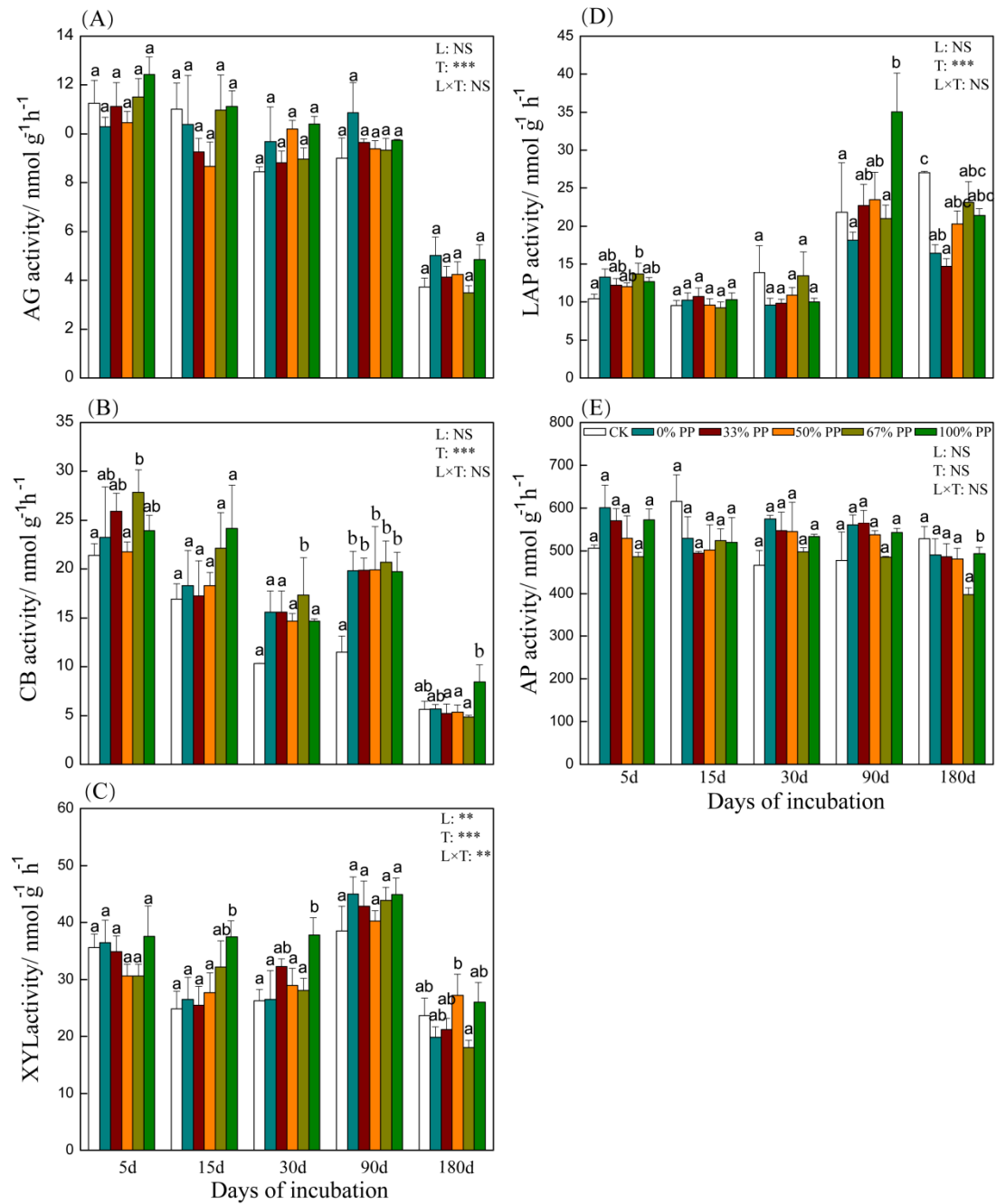


Fig. S2 The activities of α -1,4-glucosidase (AG, A), β -D-cellobiosidase (CB, B), β -1,4-xylosidase (XYL, C), Leucine aminopeptidase (LAP, D) and Acid phosphomonoesterase (AP, E) under additions of bamboo proportion at 0% (0% PP), 33% (33% PP), 50% (50% PP), 67% (67% PP), and 100% (100% PP) at different period. The symbol * indicates significant differences of mean values ($P < 0.05$) among treatments at each measurement time. Bars with different letters are significantly different ($P < 0.05$).

Table S1 Treatment effects on soil chemical properties during the incubation

Treatment	5 days of incubation							10 days of incubation							30 days of incubation			
	pH	SOC	TN	NO ₃ ⁻ -N	NH ₄ ⁺ -N	DOC	DN	pH	SOC	TN	NO ₃ ⁻ -N	NH ₄ ⁺ -N	DOC	DN	pH	SOC	TN	NO ₃ ⁻ -N
CK	4.037a	26.387a	1.391a	8.84b	30.64bc	643.60b	57.52b	4.137a	26.348a	1.387a	21.71c	18.96b	676.44b	59.22c	3.930a	25.846ab	1.430a	37.45de
0% PP	4.200b	26.279a	1.430a	6.41a	22.80a	604.96ab	51.02a	4.253b	26.445ab	1.431a	14.98a	13.64a	712.96c	47.51a	4.193d	25.744ab	1.480a	24.57a
33% PP	4.160b	26.435a	1.416a	7.15a	28.64b	593.20a	53.68ab	4.257b	27.053bc	1.429a	18.33b	16.69b	679.76b	54.34b	4.143cd	25.528a	1.470a	28.53b
50% PP	4.177b	26.734a	1.421a	7.45a	33.33bc	583.84a	55.01ab	4.243b	27.327c	1.407a	17.96b	18.70b	675.64b	52.69b	4.090bc	25.849ab	1.470a	31.15bc
67% PP	4.143b	26.804a	1.413a	7.15a	35.66c	566.80a	54.87ab	4.220b	26.768abc	1.409a	18.43b	18.99b	639.49a	54.44b	4.11bc	26.511bc	1.469a	34.26cd
100% PP	4.180b	26.221a	1.398a	7.33a	32.94bc	558.24a	56.61ab	4.257b	27.238c	1.403a	18.90b	22.62c	626.72a	55.46b	4.053b	26.770c	1.460a	40.16e

Treatment	30 days of incubation			90 days of incubation						180 days of incubation							
	NH ₄ ⁺ -N	DOC	DN	pH	SOC	TN	NO ₃ ⁻ -N	NH ₄ ⁺ -N	DOC	DN	pH	SOC	TN	NO ₃ ⁻ -N	NH ₄ ⁺ -N	DOC	DN
CK	12.40a	679.08c	73.26b	3.813a	23.199ab	1.491a	56.67cd	11.71bc	685.19a	96.96b	3.84a	25.519c	1.377a	48.37a	16.64c	437.36a	192.22a
0% PP	11.89a	677.04c	58.61a	4.013c	22.196a	1.578a	45.6a	8.97a	775.57a	80.25a	3.9bc	24.310a	1.407b	58.29b	7.55a	549.74b	181.62a
33% PP	12.26a	653.04a	60.74a	3.970bc	22.644ab	1.558a	51.43b	10.10ab	715.90a	83.74ab	3.897bc	24.459ab	1.361a	56.69b	11.35b	505.96ab	183.48a
50% PP	11.57a	664.16b	61.69a	3.937bc	23.166ab	1.546a	53.50bc	9.54a	690.69a	81.1a	3.887bc	24.497ab	1.363a	55.57b	12.27b	473.88ab	184.8a
67% PP	12.17a	659.84ab	72.11b	3.933bc	23.763b	1.520a	54.05bc	10.56abc	703.87a	84.83ab	3.870b	24.138a	1.354a	54.99b	13.41b	467.55ab	175.2a
100% PP	13.38a	674.72c	78.17b	3.903b	23.625b	1.501a	59.33d	12.14c	754.55a	94.96ab	3.860c	24.846b	1.357a	54.43ab	19.81d	455.13ab	224.46b

Note: SOC, g kg⁻¹; TN, g kg⁻¹; NO₃⁻-N, mg kg⁻¹; NH₄⁺-N, mg kg⁻¹; DOC, mg kg⁻¹; DN, mg kg⁻¹. CK, with no litter; 0% PP, bamboo litter occupying at 0%; 33% PP, bamboo litter occupying at 33%; 50% PP, bamboo litter occupying at 50%; 67% PP, bamboo litter occupying at 67%; 100% PP, bamboo litter occupying at 100%.

Different letters in a single row indicate significant different means according to Duncan's test at $P < 0.05$ level.