

Supplementary information

Decomposing litter and associated microbial activity responses to nitrogen deposition in two subtropical forests containing nitrogen-fixing or non-nitrogen-fixing tree species

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Figure S1. The litter decay rate of *AC* and *LF*. Different lowercase indicated significant difference between treatments at each plantation) (Tukey's HSD, $P < 0.05$).

Table S1. Significances of ANOVA for enzyme activity in two plantations.

Table S2. Significances of relationships between enzymes activities and litter characteristics.

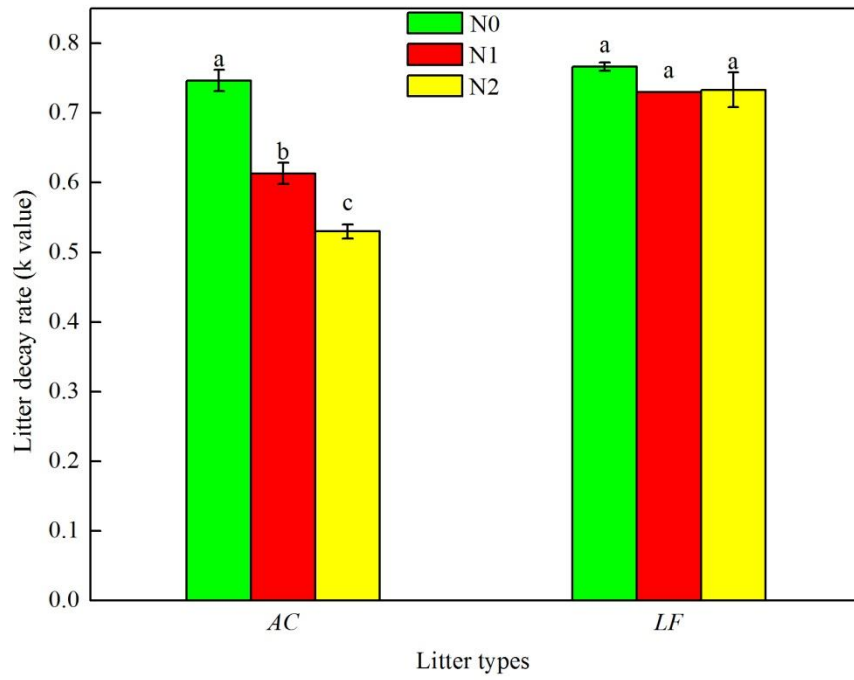


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Table S1. Significances of ANOVA for enzyme activity in two plantations.

Source of variation	β -glucosidase		Cellobiohydrolase		Endocellulase		Phenol oxidase		Peroxidase	
	F	P	F	P	F	P	F	P	F	P
Type	282.41	0	2.60	0.12	14.12	0.001	37.01	0	234.17	0
Time	642.10	0	874.04	0	130.96	0	6034.18	0	5015.75	0
N	89.72	0	151.00	0	7.23	0.003	96.88	0	6.19	0.007
Type \times Time	1.97	0.174	115.02	0	24.53	0	45.21	0	169.39	0
Type \times N	19.05	0	5.19	0.013	6.35	0.006	38.90	0	8.20	0.002
Time \times N	60.76	0	15.98	0	17.48	0	93.01	0	15.01	0
Type \times Time \times N	24.59	0	37.25	0	0.15	0.863	21.48	0	12.06	0

Table S2. Significances of relationships between enzymes activities and litter characteristics.

Source of variation	β -glucosidase		Cellobiohydrolase		Endocellulase		Phenol oxidase		Peroxidase	
	F	<i>P</i>	F	<i>P</i>	F	<i>P</i>	F	<i>P</i>	F	<i>P</i>
Litter C	-0.695	***	-0.734	***	-0.707	***	-0.951	***	-0.92	***
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Litter N	-0.676	***	-0.612	***	-0.696	***	-0.886	***	-0.88	***
Cellulose	-0.621	***	-0.709	***	-0.685	***	-0.922	***	-0.83	***
Lignin	-0.445	**0.007	-0.708	***	-0.464	***	-0.892	***	-0.86	***
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C:N	0.13	0.451	-0.057	0.74	0.078	0.65	0.085	0.623	0.141	0.412
Lignin:N	0.011	0.951	-0.444	**0.007	-0.052	0.76	-0.466	**0.004	-0.38	*0.019
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