

Supporting Information

Source to sink of lignin phenols in a subtropical forest of southwest China

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Table S1

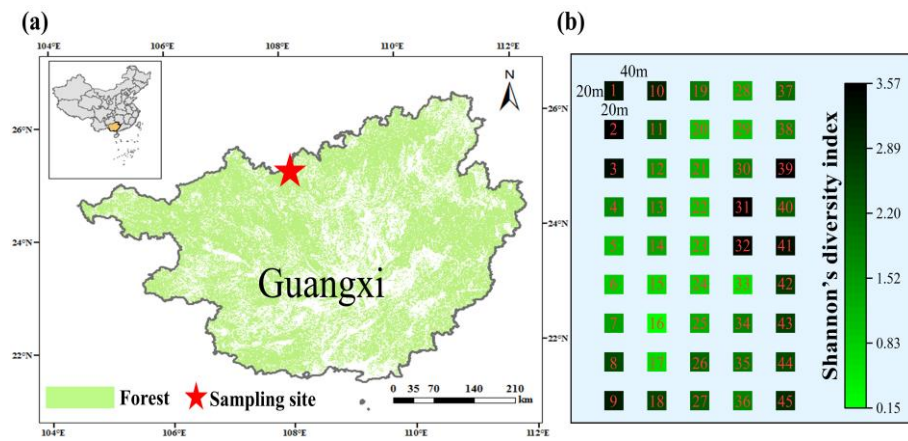


Figure. S1 Study area and sampling sites. (a) Geographic distributions and landscape of Mulun National Natural Reserve; (b) Grid map of 45 selected sampling plots with a series of tree species diversity.

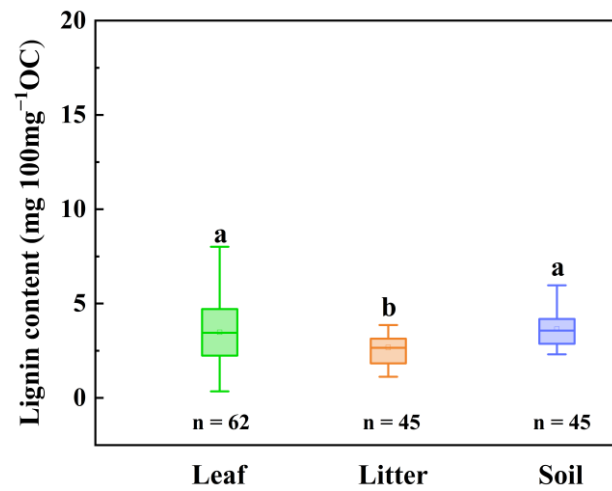


Figure. S2 OC-normalized lignin phenol contents in plant leaf, litter, and soil. The different letters indicate significant differences between three type samples ($P < 0.05$). Boxes represent the central 50% of the data and the solid line and square in each box represent the median and mean of each dataset, respectively. The upper and lower whisker caps represent the 75% and 25% percentiles, respectively.

Table S1 The lignin and organic C content for selected plant species in this subtropical forest.

No	Latin name	V- mg g ⁻¹	S- mg g ⁻¹	C- mg g ⁻¹	Total lignin mg g ⁻¹	OC content mg g ⁻¹
1	<i>Mallotus philippensis</i>	6.11	13.80	3.15	23.06	482.1
2	<i>Lindera communis</i>	7.96	7.57	3.96	19.49	468.9
3	<i>Pavetta hongkongensis</i>	4.62	4.36	1.82	10.81	461.8
4	<i>Micromelum integerrimum</i>	12.33	7.48	1.68	21.49	482.3
5	<i>Alchornea trewioides</i>	9.73	9.89	0.79	20.41	482.8
6	<i>Pothos chinensis</i>	3.43	5.74	1.92	11.10	418.4
7	<i>Glycosmis parviflora</i>	1.43	2.17	0.47	4.07	396.6
8	<i>Isatis tinctoria</i>	2.34	4.13	0.51	6.99	457.2
9	<i>Toxicodendron vernicifluum</i>	4.43	4.14	1.59	10.16	448.0
10	<i>Chrysanthemum oreastrum</i>	9.09	8.45	3.90	21.45	496.9
11	<i>Rubovietnamia aristata</i>	8.25	13.21	2.66	24.12	497.2
12	<i>Selaginella tamariscina</i>	8.87	11.18	3.71	23.76	410.0
13	<i>Illigera parviflora</i>	12.71	15.56	2.50	30.78	465.6
14	<i>Maesa japonica</i>	7.90	0.60	4.67	13.17	504.2
15	<i>Archidendron clypearia</i>	8.34	10.12	5.31	23.77	493.3
16	<i>Xylosma congesta</i>	14.81	2.76	7.26	24.83	441.3
17	<i>Sinoadina racemosa</i>	4.26	6.94	1.40	12.61	462.5
18	<i>Gnetum montanum</i>	6.86	1.54	1.06	9.46	469.5
19	<i>Celtis sinensis</i>	4.86	1.56	15.79	22.22	469.4
20	<i>Rhamnus davurica</i>	2.50	7.22	4.87	14.59	448.4
21	<i>Ficus hispida</i>	2.52	10.18	0.91	13.61	497.6
22	<i>Aspidistra elatior</i>	3.61	4.10	2.34	10.04	489.4
23	<i>Chukrasia tabularis</i>	3.26	4.12	0.81	8.18	459.7
24	<i>Chukrasia tabularis</i>	2.31	1.70	0.82	4.83	498.0

No	Latin name	V- mg g ⁻¹	S- mg g ⁻¹	C- mg g ⁻¹	Total lignin mg g ⁻¹	OC content mg g ⁻¹
25	<i>Luculia pinceana</i>	2.78	1.75	1.11	5.64	482.9
26	<i>Sansevieria trifasciata</i>	5.07	5.55	3.05	13.67	492.1
27	<i>Sansevieria trifasciata</i>	3.72	4.17	3.08	10.97	510.8
28	<i>Cleidion brevipetiolatum</i>	9.40	6.70	3.56	19.66	467.5
29	<i>Rosa chinensis</i>	17.96	4.60	1.76	24.31	451.8
30	<i>Miliusa balansae</i>	11.22	7.43	0.85	19.51	462.2
31	<i>Woodfordia fruticosa</i>	11.13	2.73	1.45	15.30	462.3
32	<i>Bridelia retusa</i>	3.10	5.19	0.66	8.95	508.4
33	<i>Croton tiglium</i>	3.13	10.80	1.89	15.81	493.6
34	<i>Ventilago leiocarpa</i>	1.55	2.31	8.05	11.91	479.9
35	<i>Ficus tinctoria</i>	7.84	4.93	4.47	17.25	518.1
36	<i>Cipadessa baccifera</i>	9.18	19.27	4.90	33.35	457.6
37	<i>Eurycorymbus cavaleriei</i>	5.38	3.23	4.24	12.85	482.9
38	<i>Cryptocarya chinensis</i>	13.00	8.93	3.40	25.33	421.8
39	<i>Murraya exotica</i>	8.20	2.98	3.47	14.65	486.0
40	<i>Asplenium nidus</i>	3.20	2.00	0.50	5.69	512.4
41	<i>Bridelia tomentosa</i>	11.18	8.24	4.47	23.89	360.6
42	<i>Itoa orientalis</i>	9.58	12.03	2.58	24.20	463.3
43	<i>Micromelum falcatum</i>	2.55	2.09	4.21	8.85	504.6
44	<i>Micromelum integerrimum</i>	13.54	3.34	3.31	20.19	463.8
45	<i>Asarum heterotropoides</i>	6.10	1.13	2.40	9.63	493.0
46	<i>Platycarya strobilacea</i>	19.63	1.20	1.60	22.43	462.7
47	<i>Pothos chinensis</i>	7.39	10.27	2.35	20.02	449.2
48	<i>Liparis campylostalix</i>	13.50	2.86	2.48	18.84	436.8
49	<i>Epipremnum pinnatum</i>	6.67	12.86	0.30	19.83	471.5
50	<i>Platycarya longipes</i>	17.00	0.17	3.93	21.11	416.4

No	Latin name	V- mg g ⁻¹	S- mg g ⁻¹	C- mg g ⁻¹	Total lignin mg g ⁻¹	OC content mg g ⁻¹
51	<i>Phanera championii</i>	8.09	6.74	2.17	17.00	439.5
52	<i>Elatostema parvum</i>	1.96	1.22	0.24	3.42	383.9
53	<i>Phyllanthodendron anthopotamicum</i>	2.53	2.92	1.65	7.10	442.3
54	<i>Begonia grandis</i>	0.59	0.67	0.33	1.60	466.4
55	<i>Litsea lancifolia</i>	6.19	12.60	1.39	20.18	328.2
56	<i>Alchornea davidii</i>	7.77	6.51	2.32	16.60	421.6
57	<i>Boehmeria nivea</i>	2.04	0.39	0.26	2.68	459.2
58	<i>Selaginella uncinata</i>	5.21	15.19	0.58	20.98	422.1
59	<i>Illigera parviflora</i>	3.87	2.62	8.86	15.35	462.7
60	<i>Brassaiopsis glomerulata</i>	4.85	2.65	0.54	8.03	449.2
61	<i>Swida parviflora</i>	7.77	15.86	0.25	23.88	436.8
62	<i>Pterospermum heterophyllum</i>	3.23	8.82	3.78	15.83	416.4