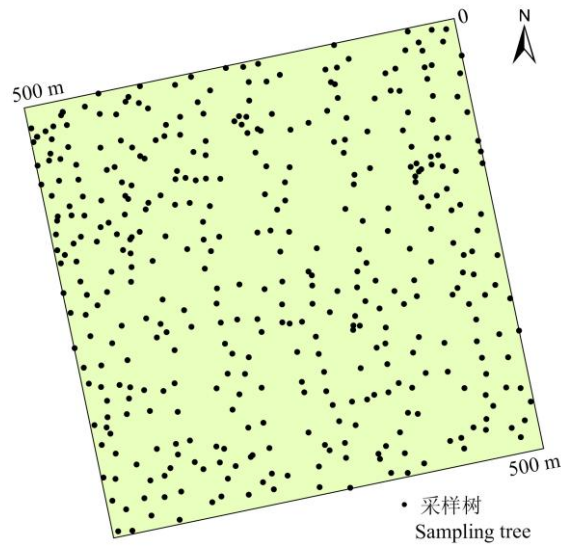


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附录1 400株采样树在百山祖25 ha亚热带森林动态监测样地中的分布情况

Appendix 1 Spatial distribution of the 400 sampled trees across the 25-ha subtropical forest dynamics plot at Baishanzu

附录2 百山祖25 ha亚热带森林动态监测样地149种采样树种信息

Appendix 2 Information of 149 sampled tree species in the 25-ha subtropical forest dynamics plot at Baishanzu

编号 No.	树种 Species	多度 Abundance	树种类型 Tree type	生活型1 Life form 1	生活型2 Life form 2	虫食率 Herbivory rate	虫食频率 Herbivory frequency
1	鹿角杜鹃 <i>Rhododendron latoucheae</i>	38,935	常见种 Common	常绿 Evergreen	灌木 Shrub	4.52%	65.56%
2	微毛柃 <i>Eurya hebeclados</i>	23,061	常见种 Common	常绿 Evergreen	灌木 Shrub	7.46%	76.67%
3	窄基红褐柃 <i>Eurya rubiginosa</i> var. <i>attenuata</i>	17,815	常见种 Common	常绿 Evergreen	灌木 Shrub	4.15%	63.97%
4	尖连蕊茶 <i>Camellia cuspidata</i>	15,152	常见种 Common	常绿 Evergreen	灌木 Shrub	6.24%	56.67%
5	翅柃 <i>Eurya alata</i>	8,877	常见种 Common	常绿 Evergreen	灌木 Shrub	5.93%	72.22%
6	木荷 <i>Schima superba</i>	8,110	常见种 Common	常绿 Evergreen	乔木 Tree	10.27%	75.17%
7	云锦杜鹃 <i>Rhododendron fortunei</i>	7,397	常见种 Common	常绿 Evergreen	灌木 Shrub	8.79%	71.11%
8	多脉青冈 <i>Quercus multinervis</i>	6,686	常见种 Common	常绿 Evergreen	乔木 Tree	15.20%	88.89%
9	厚叶红淡比 <i>Cleyera pachyphylla</i>	5,751	常见种 Common	常绿 Evergreen	灌木 Shrub	7.27%	80.83%
10	石灰花楸 <i>Sorbus folgneri</i>	5,722	常见种 Common	落叶 Deciduous	乔木 Tree	5.53%	52.22%
11	香冬青 <i>Ilex suaveolens</i>	4,506	常见种 Common	常绿 Evergreen	小乔木 Small tree	8.13%	92.22%
12	马银花 <i>Rhododendron ovatum</i>	4,461	常见种 Common	常绿 Evergreen	灌木 Shrub	6.34%	45.56%
13	水丝梨 <i>Sycopsis sinensis</i>	4,423	常见种 Common	常绿 Evergreen	乔木 Tree	11.01%	90.00%
14	浙闽新木姜子 <i>Neolitsea aurata</i> var. <i>undulata</i>	3,119	常见种 Common	常绿 Evergreen	乔木 Tree	8.06%	78.89%
15	光叶水青冈 <i>Fagus lucida</i>	2,844	常见种 Common	落叶 Deciduous	乔木 Tree	13.09%	85.56%
16	小叶石楠 <i>Photinia parvifolia</i>	2,622	常见种 Common	落叶 Deciduous	灌木 Shrub	7.07%	63.33%
17	光亮山矾 <i>Symplocos lucida</i>	2,517	常见种 Common	常绿 Evergreen	乔木 Tree	12.93%	84.44%
18	杜鹃 <i>Rhododendron simsii</i>	2,205	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	7.59%	56.67%
19	交让木 <i>Daphniphyllum macropodum</i>	2,176	中间种 Intermediate	常绿 Evergreen	小乔木 Small tree	4.74%	60.67%
20	短尾柯 <i>Lithocarpus brevicaudatus</i>	2,117	中间种 Intermediate	常绿 Evergreen	乔木 Tree	15.95%	80.41%
21	褐叶青冈 <i>Quercus stewardiana</i>	2,105	中间种 Intermediate	常绿 Evergreen	乔木 Tree	15.04%	90.00%
22	中华石楠 <i>Photinia beauverdiana</i>	1,898	中间种 Intermediate	落叶 Deciduous	小乔木 Small tree	15.49%	82.22%
23	茶菱蓬 <i>Viburnum setigerum</i>	1,851	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	9.74%	70.00%
24	显脉冬青 <i>Ilex editicostata</i>	1,760	中间种 Intermediate	常绿 Evergreen	小乔木 Small tree	10.25%	88.89%
25	大萼杨桐 <i>Adinandra glischroloma</i> var. <i>macrosepala</i>	1,712	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	4.75%	71.03%
26	硬壳柯 <i>Lithocarpus hancei</i>	1,561	中间种 Intermediate	常绿 Evergreen	乔木 Tree	11.88%	88.89%
27	榕叶冬青 <i>Ilex ficoidea</i>	1,428	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	10.47%	81.11%
28	东方古柯 <i>Erythroxylum sinense</i>	1,099	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	5.04%	42.91%
29	树参 <i>Dendropanax dentiger</i>	1,035	中间种 Intermediate	常绿 Evergreen	小乔木 Small tree	2.81%	34.98%
30	尾叶冬青 <i>Ilex wilsonii</i>	925	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	8.68%	73.33%
31	台湾冬青 <i>Ilex formosana</i>	913	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	7.07%	67.78%
32	合轴菱蓬 <i>Viburnum sympodiale</i>	865	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	5.04%	75.56%
33	野茉莉 <i>Styrax japonicus</i>	757	中间种 Intermediate	落叶 Deciduous	小乔木 Small tree	7.07%	68.33%
34	灰叶安息香 <i>Styrax calvescens</i>	689	中间种 Intermediate	落叶 Deciduous	小乔木 Small tree	5.98%	58.89%
35	厚皮香 <i>Ternstroemia gymnanthera</i>	680	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	8.88%	75.56%
36	尖萼紫茎 <i>Stewartia sinensis</i> var. <i>acutisepala</i>	679	中间种 Intermediate	常绿 Evergreen	乔木 Tree	9.02%	80.83%
37	假地枫皮 <i>Illicium jiadifengpi</i>	625	中间种 Intermediate	常绿 Evergreen	乔木 Tree	5.81%	42.11%
38	髭脉椴叶树 <i>Clethra barbinervis</i>	606	中间种 Intermediate	落叶 Deciduous	小乔木 Small tree	3.26%	32.22%
39	波叶红果树 <i>Stranvaesia davidiana</i> var. <i>undulata</i>	596	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	8.75%	87.78%
40	光叶山矾 <i>Symplocos lancifolia</i>	594	中间种 Intermediate	常绿 Evergreen	乔木 Tree	12.01%	91.11%
41	猴头杜鹃 <i>Rhododendron simiarum</i>	565	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	6.33%	56.67%
42	黄山玉兰 <i>Yulania cylindrica</i>	549	中间种 Intermediate	落叶 Deciduous	乔木 Tree	3.68%	51.37%
43	秀丽槭 <i>Acer elegantulum</i>	528	中间种 Intermediate	落叶 Deciduous	乔木 Tree	11.49%	73.95%
44	薄叶山矾 <i>Symplocos anomala</i>	527	中间种 Intermediate	常绿 Evergreen	小乔木 Small tree	8.27%	77.78%
45	中国绣球 <i>Hydrangea chinensis</i>	507	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	1.44%	19.71%
46	黄丹木姜子 <i>Litsea elongata</i>	506	中间种 Intermediate	常绿 Evergreen	乔木 Tree	18.12%	96.67%
47	棕脉花楸 <i>Sorbus dumii</i>	496	中间种 Intermediate	落叶 Deciduous	乔木 Tree	5.84%	72.22%
48	浙闽樱桃 <i>Prunus schneideriana</i>	445	中间种 Intermediate	落叶 Deciduous	小乔木 Small tree	17.49%	92.07%
49	齿叶冬青 <i>Ilex crenata</i>	443	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	6.89%	58.33%
50	圆锥绣球 <i>Hydrangea paniculata</i>	442	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	8.43%	72.22%
51	格药柃 <i>Eurya muricata</i>	439	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	13.61%	93.33%
52	红果山胡椒 <i>Lindera erythrocarpa</i>	427	中间种 Intermediate	落叶 Deciduous	乔木 Tree	8.57%	81.11%
53	具柄冬青 <i>Ilex pedunculosa</i>	380	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	16.37%	62.22%
54	毛漆树 <i>Toxicodendron trichocarpum</i>	380	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	6.87%	57.78%
55	野漆 <i>Toxicodendron succedaneum</i>	356	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	3.90%	35.56%
56	巴东栎 <i>Quercus engleriana</i>	351	中间种 Intermediate	常绿 Evergreen	乔木 Tree	23.53%	97.65%
57	江南花楸 <i>Sorbus hemsleyi</i>	334	中间种 Intermediate	落叶 Deciduous	乔木 Tree	5.51%	84.14%
58	紫果冬青 <i>Ilex isoii</i>	313	中间种 Intermediate	落叶 Deciduous	小乔木 Small tree	4.88%	73.33%
59	蓝果树 <i>Nyssa sinensis</i>	261	中间种 Intermediate	落叶 Deciduous	乔木 Tree	5.28%	56.67%
60	红柴枝 <i>Meliosma oldhamii</i>	255	中间种 Intermediate	落叶 Deciduous	乔木 Tree	3.70%	38.31%
61	白檀 <i>Symplocos paniculata</i>	223	中间种 Intermediate	落叶 Deciduous	小乔木 Small tree	11.95%	93.06%
62	腺蜡瓣花 <i>Corylopsis glandulifera</i>	213	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	7.44%	79.87%
63	短尾越桔 <i>Vaccinium carlesii</i>	208	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	2.16%	31.67%
64	小叶白辛树 <i>Pterostyrax corymbosus</i>	185	中间种 Intermediate	落叶 Deciduous	乔木 Tree	3.99%	66.67%
65	钟花樱桃 <i>Prunus campanulata</i>	178	中间种 Intermediate	落叶 Deciduous	小乔木 Small tree	20.11%	100.00%
66	木姜冬青 <i>Ilex litseifolia</i>	173	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	4.06%	57.62%
67	扁枝越桔 <i>Vaccinium japonicum</i> var. <i>sinicum</i>	149	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	2.69%	51.26%

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编号 No.	树种 Species	多度 Abundance	树种类型 Tree type	生活型1 Life form 1	生活型2 Life form 2	虫食率 Herbivory rate	虫食频率 Herbivory frequency
68	团花山矾 <i>Symplocos glomerata</i>	149	中间种 Intermediate	常绿 Evergreen	小乔木 Small tree	10.07%	87.89%
69	秀丽四照花 <i>Cornus hongkongensis</i> subsp. <i>elegans</i>	141	中间种 Intermediate	常绿 Evergreen	小乔木 Small tree	5.21%	62.47%
70	长叶木犀 <i>Osmanthus marginatus</i> var. <i>longissimus</i>	136	中间种 Intermediate	常绿 Evergreen	小乔木 Small tree	4.09%	44.44%
71	雷公鹅耳枥 <i>Carpinus viminea</i>	134	中间种 Intermediate	落叶 Deciduous	乔木 Tree	8.07%	68.89%
72	江南越桔 <i>Vaccinium mandarinorum</i>	119	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	4.40%	57.16%
73	毛果珍珠花 <i>Lyonia ovalifolia</i> var. <i>hebecarpa</i>	106	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	7.21%	66.20%
74	青榨槭 <i>Acer davidii</i>	104	中间种 Intermediate	落叶 Deciduous	乔木 Tree	6.12%	64.02%
75	大果卫矛 <i>Euonymus myrianthus</i>	102	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	4.03%	58.89%
76	宜昌莢蒾 <i>Viburnum erosum</i>	93	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	5.98%	76.67%
77	石斑木 <i>Rhaphiolepis indica</i>	88	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	7.79%	83.33%
78	温州冬青 <i>Ilex wenchowensis</i>	79	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	2.26%	33.33%
79	银钟花 <i>Halesia macgregorii</i>	77	中间种 Intermediate	落叶 Deciduous	乔木 Tree	5.03%	58.89%
80	福建假卫矛 <i>Microtropis fokiensis</i>	75	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	6.37%	71.11%
81	南岭革瓣山矾 <i>Cordyloblaste confusa</i>	75	中间种 Intermediate	常绿 Evergreen	乔木 Tree	8.13%	78.47%
82	山矾 <i>Symplocos sumuntia</i>	72	中间种 Intermediate	常绿 Evergreen	乔木 Tree	6.40%	74.44%
83	檳木 <i>Prunus buergeriana</i>	70	中间种 Intermediate	落叶 Deciduous	乔木 Tree	5.78%	64.10%
84	木犀 <i>Osmanthus fragrans</i>	68	中间种 Intermediate	常绿 Evergreen	小乔木 Small tree	1.99%	35.83%
85	青麸杨 <i>Rhus potaninii</i>	67	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	4.27%	48.39%
86	南烛 <i>Vaccinium bracteatum</i>	66	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	2.08%	22.22%
87	刨花润楠 <i>Machilus pauhoi</i>	60	中间种 Intermediate	常绿 Evergreen	乔木 Tree	5.40%	71.03%
88	海金子 <i>Pittosporum illicioides</i>	53	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	1.73%	38.89%
89	灯笼吊钟花 <i>Enkianthus chinensis</i>	52	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	7.84%	56.67%
90	马醉木 <i>Pieris japonica</i>	52	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	3.57%	51.11%
91	巴东莢蒾 <i>Viburnum henryi</i>	51	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	2.06%	47.78%
92	小蜡 <i>Ligustrum sinense</i>	43	中间种 Intermediate	常绿 Evergreen	小乔木 Small tree	2.17%	46.09%
93	灰叶稠李 <i>Prunus grayana</i>	42	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	3.30%	58.33%
94	老鼠矢 <i>Symplocos stellaris</i>	40	中间种 Intermediate	常绿 Evergreen	乔木 Tree	5.35%	66.34%
95	灯台树 <i>Cornus controversa</i>	39	中间种 Intermediate	落叶 Deciduous	乔木 Tree	5.47%	74.44%
96	毛脉槭 <i>Acer pubinerve</i>	38	中间种 Intermediate	落叶 Deciduous	乔木 Tree	13.64%	89.66%
97	甜槠 <i>Castanopsis eyrei</i>	38	中间种 Intermediate	常绿 Evergreen	乔木 Tree	8.72%	77.94%
98	窄叶紫珠 <i>Callicarpa membranacea</i>	36	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	4.64%	49.66%
99	光叶石楠 <i>Photinia glabra</i>	35	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	4.24%	71.67%
100	吴茱萸五加 <i>Gamblea ciliata</i> var. <i>evodiifolia</i>	35	中间种 Intermediate	落叶 Deciduous	灌木 Shrub	2.65%	40.00%
101	垂枝泡花树 <i>Meliosma flexuosa</i>	32	中间种 Intermediate	落叶 Deciduous	乔木 Tree	23.27%	94.44%
102	阔叶十大功劳 <i>Mahonia bealei</i>	32	中间种 Intermediate	常绿 Evergreen	灌木 Shrub	1.12%	18.89%
103	山胡椒 <i>Lindera glauca</i>	24	稀有种 Rare	落叶 Deciduous	小乔木 Small tree	2.16%	43.33%
104	阔叶槭 <i>Acer amplum</i>	21	稀有种 Rare	落叶 Deciduous	乔木 Tree	6.44%	74.44%
105	山鸡椒 <i>Litsea cubeba</i>	19	稀有种 Rare	落叶 Deciduous	小乔木 Small tree	3.07%	68.33%
106	野黄桂 <i>Cinnamomum jensenianum</i>	16	稀有种 Rare	常绿 Evergreen	乔木 Tree	11.13%	81.11%
107	异叶榕 <i>Ficus heteromorpha</i>	16	稀有种 Rare	落叶 Deciduous	灌木 Shrub	0.49%	16.67%
108	麻梨 <i>Pyrus serrulata</i>	15	稀有种 Rare	落叶 Deciduous	乔木 Tree	0.97%	13.98%
109	浙江新木姜子 <i>Neolitsea aurata</i> var. <i>chekiangensis</i>	14	稀有种 Rare	常绿 Evergreen	乔木 Tree	12.54%	69.84%
110	鸡桑 <i>Morus australis</i>	13	稀有种 Rare	落叶 Deciduous	灌木 Shrub	1.05%	38.64%
111	北江莞花 <i>Wikstroemia monnula</i>	12	稀有种 Rare	落叶 Deciduous	灌木 Shrub	7.61%	60.00%
112	白背麸杨 <i>Rhus hypoleuca</i>	11	稀有种 Rare	落叶 Deciduous	灌木 Shrub	4.33%	54.44%
113	山鼠李 <i>Rhamnus wilsonii</i>	10	稀有种 Rare	落叶 Deciduous	灌木 Shrub	3.68%	38.65%
114	香桂 <i>Cinnamomum subavenium</i>	9	稀有种 Rare	常绿 Evergreen	乔木 Tree	8.96%	76.67%
115	野桐 <i>Mallotus tenuifolius</i>	9	稀有种 Rare	落叶 Deciduous	小乔木 Small tree	6.96%	70.72%
116	毛叶山樱花 <i>Prunus serrulata</i> var. <i>pubescens</i>	8	稀有种 Rare	落叶 Deciduous	乔木 Tree	7.19%	73.33%
117	三桠乌药 <i>Lindera obtusiloba</i>	8	稀有种 Rare	落叶 Deciduous	小乔木 Small tree	5.42%	75.00%
118	西南卫矛 <i>Euonymus hamiltonianus</i>	8	稀有种 Rare	落叶 Deciduous	灌木 Shrub	5.13%	50.00%
119	北枳椇 <i>Hovenia dulcis</i>	7	稀有种 Rare	落叶 Deciduous	乔木 Tree	8.46%	68.85%
120	红淡比 <i>Cleyera japonica</i>	7	稀有种 Rare	常绿 Evergreen	灌木 Shrub	10.72%	90.00%
121	绿叶甘柃 <i>Lindera neesiana</i>	6	稀有种 Rare	落叶 Deciduous	小乔木 Small tree	6.85%	79.26%
122	小叶青冈 <i>Quercus myrsinifolia</i>	6	稀有种 Rare	常绿 Evergreen	乔木 Tree	8.05%	70.00%
123	椴木 <i>Aralia elata</i>	5	稀有种 Rare	落叶 Deciduous	灌木 Shrub	1.07%	52.47%
124	厚叶冬青 <i>Ilex elmerrilliana</i>	4	稀有种 Rare	常绿 Evergreen	灌木 Shrub	5.00%	73.33%
125	青冈 <i>Quercus glauca</i>	4	稀有种 Rare	落叶 Deciduous	乔木 Tree	12.76%	87.78%
126	青灰叶下珠 <i>Phyllanthus glaucus</i>	4	稀有种 Rare	落叶 Deciduous	灌木 Shrub	0.17%	9.52%
127	硬叶冬青 <i>Ilex ficifolia</i>	4	稀有种 Rare	常绿 Evergreen	灌木 Shrub	2.36%	53.33%
128	刺毛杜鹃 <i>Rhododendron championiae</i>	3	稀有种 Rare	常绿 Evergreen	灌木 Shrub	6.29%	71.99%
129	大叶冬青 <i>Ilex latifolia</i>	3	稀有种 Rare	常绿 Evergreen	灌木 Shrub	3.38%	30.00%
130	钝头冬青 <i>Ilex triflora</i> var. <i>kanehirae</i>	3	稀有种 Rare	常绿 Evergreen	灌木 Shrub	10.74%	63.33%
131	鹅掌楸 <i>Liriodendron chinense</i>	3	稀有种 Rare	落叶 Deciduous	乔木 Tree	5.81%	88.33%
132	蜡子树 <i>Ligustrum leucanthum</i>	3	稀有种 Rare	落叶 Deciduous	小乔木 Small tree	2.35%	41.51%
133	木蜡树 <i>Toxicodendron sylvestri</i>	3	稀有种 Rare	落叶 Deciduous	灌木 Shrub	5.12%	56.67%
134	青皮木 <i>Schoepfia jasminodora</i>	3	稀有种 Rare	落叶 Deciduous	灌木 Shrub	2.16%	41.67%
135	石楠 <i>Photinia serratifolia</i>	3	稀有种 Rare	常绿 Evergreen	灌木 Shrub	3.47%	60.00%
136	茵芋 <i>Skimmia reevesiana</i>	3	稀有种 Rare	常绿 Evergreen	灌木 Shrub	4.21%	46.67%

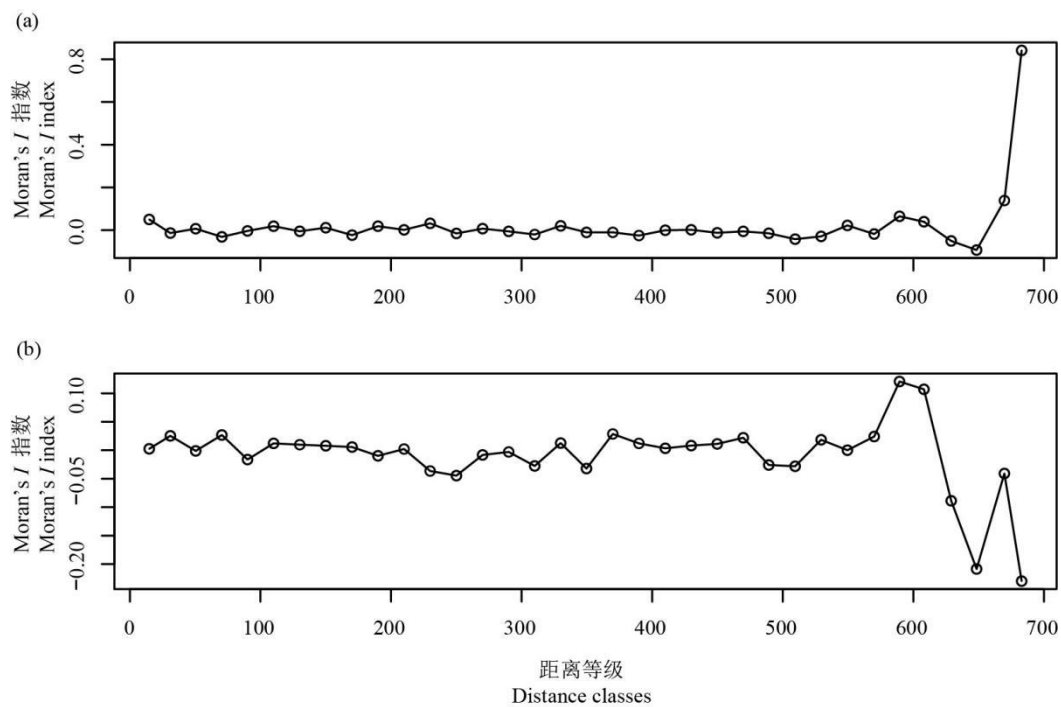
黄语卓, 王梓滢, 周伟龙, 莫佳瑶, 张敏华, 郝春晖, 兰荣光, 叶沛阳, 刘宇 (2026) 浙江省百山祖25 ha亚热带森林动态监测样地木本植物叶片虫食强度分布格局及其影响因素. 生物多样性, 34, 25406. <https://www.biodiversity-science.net/CN/10.17520/biods.2025406>

编号 No.	树种 Species	多度 Abundance	树种类型 Tree type	生活型1 Life form 1	生活型2 Life form 2	虫食率 Herbivory rate	虫食频率 Herbivory frequency
137	丁香杜鹃 <i>Rhododendron ferrerae</i>	2	稀有种 Rare	落叶 Deciduous	灌木 Shrub	6.49%	76.67%
138	凤阳山荚蒾 <i>Viburnum fengyangshanense</i>	2	稀有种 Rare	落叶 Deciduous	灌木 Shrub	4.33%	61.67%
139	厚朴 <i>Houpoa officinalis</i>	2	稀有种 Rare	落叶 Deciduous	乔木 Tree	8.57%	87.14%
140	华桑 <i>Morus cathayana</i>	2	稀有种 Rare	落叶 Deciduous	灌木 Shrub	1.73%	44.29%
141	亮叶厚皮香 <i>Ternstroemia nitida</i>	2	稀有种 Rare	常绿 Evergreen	灌木 Shrub	2.14%	43.33%
142	亮叶桦 <i>Betula luminifera</i>	2	稀有种 Rare	落叶 Deciduous	乔木 Tree	9.81%	83.33%
143	毛瑞香 <i>Daphne kiusiana</i> var. <i>atrocaulis</i>	2	稀有种 Rare	常绿 Evergreen	灌木 Shrub	9.74%	76.67%
144	赛山梅 <i>Styrax confusus</i>	2	稀有种 Rare	落叶 Deciduous	乔木 Tree	23.13%	98.33%
145	多花泡花树 <i>Meliosma myriantha</i>	1	稀有种 Rare	落叶 Deciduous	乔木 Tree	7.57%	65.38%
146	庐山小檗 <i>Berberis virgetorum</i>	1	稀有种 Rare	落叶 Deciduous	灌木 Shrub	0.21%	16.67%
147	细柱五加 <i>Eleutherococcus nodiflorus</i>	1	稀有种 Rare	落叶 Deciduous	灌木 Shrub	0.62%	16.67%
148	野柿 <i>Diospyros kaki</i> var. <i>silvestris</i>	1	稀有种 Rare	落叶 Deciduous	乔木 Tree	2.37%	23.33%
149	浙江大青 <i>Clerodendrum kaichianum</i>	1	稀有种 Rare	落叶 Deciduous	灌木 Shrub	2.07%	67.86%

**附录3 完整模型中的所有参数。在广义线性混合模型中, 虫食率作为响应变量服从beta分布。将3种树种类别、叶片大小、邻体树种多样性(丰富度和HillShannon指数)、邻体树种系统发育多样性(MPD)、邻体树种同种密度、土壤全氮(TN)和全磷(TP)含量等变量作为固定效应, 将树种作为随机效应。**

Appendix 3 All parameters in the full model. In the GLMM model, the herbivory rate as the response variable followed beta distribution. Ten variables were set as fixed effects: 3 species types, leaf size, neighboring tree diversity (richness, HillShannon index), phylogenetic diversity of neighboring trees (MPD), conspecific neighbor density, and soil total nitrogen (TN) and total phosphorus (TP) contents, with tree species as the random effect.

固定效应 Fixed effect	效应值 Estimate	P
树种类型(常见种) Abundance type (common species)	0.37604	<b>0.0283</b>
树种类型(中间种) Abundance type (intermediate species)	0.26056	<b>0.0232</b>
生活型 1 (常绿) Life form 1 (evergreen)	0.19281	0.0547
生活型 2 (乔木) Life form 2 (tree)	0.61586	<b>3.78E-09</b>
生活型 2 (小乔木) Life form 2 (small tree)	0.27725	<b>0.0380</b>
叶片大小 Leaf area	0.01416	0.7454
丰富度 Richness	-0.02051	0.6390
Hillshannon 指数 Hillshannon index	-0.00922	0.8395
平均配对距离 Mean pairwise distance (MPD)	0.09807	<b>0.0185</b>
同种密度 Conspecific density	0.04327	0.2453
土壤全氮 Soil total nitrogen (TN)	0.01783	0.7783
土壤全磷 Soil total phosphorus (TP)	0.02850	0.5703



附录4 使用Moran's I 指数检验完整模型(a)和最优模型(b)中虫食率的空间自相关性。空心圆代表自相关关系不显著。  
Appendix 4 Spatial autocorrelation of herbivory rates in the full model (a) and the optimal model (b) was test by Moran's I index. Hollow circles represent insignificant spatial autocorrelation.

附录5 后续理化性质数据与虫食率的初步相关性分析

2 Appendix 5 Preliminary correlation analysis between subsequent physicochemical properties data and herbivory rate

叶片理化性质 Leaf physicochemical properties	相关系数 Correlation coefficient ( <i>r</i> )	<i>P</i>
厚度 Thickness	-0.5935	<b>0.04193</b>
含水量 Water content	-0.6906	<b>0.01291</b>
碳氮比 C/N	-0.6153	<b>0.03319</b>
单宁 Tannin	0.5779	<b>0.04906</b>
钠 Na	0.1140	0.7242
硅 Si	0.3559	0.2562

4 **附录6 中国其他亚热带地区昆虫取食研究具体信息**  
 Appendix 6 Specific information on herbivory studies in other subtropical regions of China

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编号 Number	研究地点 Study site	海拔 Elevation	年均温 Mean annual temperature	年均降水量 Mean annual precipitation	叶片平均虫 食率 Leaf average herbivory rate	叶片平均虫 食频率 Leaf average herbivory frequency	文献 Reference
1	百山祖 25 ha 亚热带森林动态监测样地	1437.3–1659.8 m	12.8°C	2,341.8 mm	7.18%	65.38%	本研究
2	古田山国家级自然保护区	300–1,260 m	15.3°C	2,000 mm	8%	-	Schuldt et al, 2010
3	中国福建梅花山国家级自然保护区	900 m	13–18°C	1,700–2,200 mm	8.58%	33.56%	刘志国等, 2013
4	江苏省镇江宝华山国家森林公园	(最高) 437.2 m	15.4°C	1,018.6 mm	-	34.74%	王瑞雪等, 2014
5	福建农林大学西芹教学林场	160 m	20°C	1,960.4 mm	12.70%	49%	应宇馨等, 2025

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