This supplementary file contains:

Table S1. An overview of all of the methods.

Table S2. Stand features of each plot on the north and south aspects of Funiu mountain.

Table S3. Dominant species in north and south aspects of Funiu mountain range. The important values were calculated as follows: important value = (relative abundance (%) + relative frequency (%) + relative basal area at breast height (%))/3.

Table S1. An overview of all of the methods

Purposes		Methods	Analytical methods and references
To understand the community structure of woody plants in different aspects		Importance value	The "vegan" package of R software [36]
To prove that our sampling is adequate		Species accumulation curves	The "vegan" package of R software [47]
To compare differences in species richness and abundance on different aspects, and whether those differences are significant	To examine the differences of assemblage characteristics of woody plants in different aspects	Kruskal–Wallis method	The "multcomp" and "ggpubr" package of R software [37-38]
In order to visualize the species composition and distribution ratio of different aspects		Chord diagram	R software [39]
To test the effect of habitat division on beta diversity of woody plants, and to test whether it is significant		PCoA analysis and ANOVA	The "vegan" package of R software [39]

		Network diagram analysis	Based on species abundance, calculations are performed using Gephi in the Java programming language, where, the modularity index is calculated using Gephi, and the specialization index is calculated using the "Bipartite" package of R software [42]
The specificity of woody plants to different aspects at the community level was analyzed	To examine the distribution characteristics and preferences of species on different aspects		
The distribution preference of species in two different aspects was analyzed at species level.		Torus translation tests	R software [43]
To examine the difference of interspecific relationship in different aspects and analyze the effect of interspecific relationship on species distribution		Co-occurrence network	Spearman's correlation coefficients were visualized by Gephi in Java programming language. Node, links, modularity index, average clustering coefficient, and average path length are calculated.

Table S2. Stand features of each plot on the north and south aspects of Funiu mountain

Aspects	Plots	Main dominant species	Longitude and latitude	Aspect	Slope	Elevation	Convex
The south aspect	Plot 1	*Quercus serrata; Cornus kousa* subsp. *Chinensis; Quercus variabilis*	33°29′795″E, 111°55′967″N	274.78	17.30	1387.09	0.05
	Plot 2	*Quercus serrata; Quercus variabilis; Sorbus alnifolia*	33°29′874″E, 111°55′465″N	283.15	20.76	1296.28	0.19
	Plot 3	*Quercus aliena* var. *Acuteserrata; Cornus kousa* subsp. *Chinensis; Pinus armandii*	33°30′144″E, 111°55′261″N	237.06	21.70	1252.16	-0.18
	Plot 4	*Quercus aliena* var. *Acuteserrata; Symplocos paniculata; Forsythia suspensa*	33°30′254″E, 111°55′997″N	146.19	21.87	1437.19	-0.18
	Plot 5	*Quercus aliena* var. *Acuteserrata; Sorbus alnifolia; Lindera obtusiloba*	33°29′708″E, 111°55′588″N	240.97	13.95	1294.69	-0.07
The north aspect	Plot 1	*Quercus aliena* var. *Acuteserrata; Pinus tabuliformis; Larix gmelinii*	33°39′27″E, 111°50′31″N	159.97	17.49	1647.36	-4.35
	Plot 2	*Quercus aliena* var. *Acuteserrata; Litsea tsinlingensis; Sorbus hupehensis*	33°45′27″E, 112°14′40″N	221.51	19.36	1777.75	4.91
	Plot 3	*Quercus aliena* var. *Acuteserrata; Pinus armandii; Forsythia suspensa*	33°40′6″E, 111°51′55″N	126.20	25.48	1413.24	-3.88
	Plot 4	*Quercus aliena* var. *Acuteserrata; Corylus heterophylla; Forsythia suspensa*	33°39′27″E, 111°50′4″N	114.40	23.927	1578.66	-0.97
	Plot 5	*Quercus aliena* var. *Acuteserrata; Pinus armandii; Toxicodendron vernicifluum*	33°39′32″E, 111°50′11″N	207.09	21.22	1563.43	2.23

Table S3. Dominant species in north and south aspects of Funiu mountain range. The important values were calculated as follows: important value = (relative abundance (%) + relative frequency (%) + relative basal area at breast height (%))/3.

Species	Life form	Abundance (individual)	Mean DBH (cm)	Basal area at breast height (cm²)	Importance value
The south aspect					
Quercus aliena var. *acutiserrata*	Tree	1686	21.76	79.69	23.07
Quercus serrata	Tree	887	14.44	21.12	8.03
Quercus variabilis	Tree	383	24.64	21.57	6.23
Sorbus alnifolia	Tree	934	4.48	2.98	4.47
Pinus armandii	Tree	362	18.96	11.70	4.12
Cornus kousa subsp. *chinensis*	Tree	899	3.14	1.27	3.98
Forsythia suspensa	Shrub	762	2.01	0.28	13.99
Symplocos paniculata	Shrub	333	2.04	0.16	7.08
Euonymus alatus	Shrub	267	2.34	0.19	6.77
Cornus schindleri subsp. *poliophylla*	Shrub	28	10.34	0.35	6.40
Litsea tsinlingensis	Shrub	197	2.29	0.10	4.41
Philadelphus incanus	Shrub	207	1.61	0.05	3.71
The north aspect					
Quercus aliena var. *acutiserrata*	Tree	3789	12.99	79.63	31.31
Pinus armandii	Tree	995	12.13	14.27	7.00
Pinus tabuliformis	Tree	500	12.77	8.09	4.00
Lindera obtusiloba	Tree	928	5.17	2.61	3.99
Toxicodendron vernicifluum	Tree	503	10.70	6.25	3.57
Sorbus alnifolia	Tree	804	3.93	1.49	3.34
Forsythia suspensa	Shrub	1231	2.17	0.79	15.71
Litsea tsinlingensis	Shrub	455	4.38	1.11	10.87
Corylus heterophylla	Shrub	633	3.15	0.66	9.88
Cerasus clarofolia	Shrub	2187	6.63	1.01	8.00
Malus honanensis	Shrub	267	4.13	0.73	7.10
Symplocos paniculata	Shrub	346	3.19	0.53	6.71