Vegetation type	Soil layer(cm)	Growing season			
		pH	TP(mg/g)	SOC(g/kg)	TN(g/kg)
PM	0-10	4.78±0.52b	0.13±0.04c	21.63±6.82a	1.41±0.56b
QA		4.13±0.28d	0.30±0.11ab	31.57±13.0a	1.94±0.67a
LF		5.08±0.48c	0.22±0.04a	34.07±12.14a	2.33±0.71a
DB		5.25±0.45a	0.20±0.02b	35.40±10.82a	2.42±0.51a
PM	10-20	5.15±0.46a	0.09±0.02a	17.78±10.48c	1.13±0.57b
QA		4.30±0.45b	0.33±0.15b	16.83±6.25ab	1.39±0.47a
LF		5.35±0.56b	0.17±0.04b	19.97±7.69a	1.40±0.36a
DB		5.38±0.47a	0.16±0.02a	22.71±7.68bc	1.68±0.37a
PM	20-30	5.38±0.47ab	0.08±0.02c	13.28±7.88a	0.92±0.38c
QA		4.58±0.32c	0.27±0.08ab	16.32±4.73a	1.35±0.30b
LF		5.50±0.50bc	18.80±9.64a	18.80±9.64a	1.29±0.45ab
DB		5.62±0.40a	0.14±0.02b	19.90±6.98a	1.53±0.33a

Table 1. Soil physiochemical properties of soil in three soil layers (0-10, 10-20, 20-30cm) of three plantation (PM, QA, LF) forests and secondary deciduous broadleaved forest (DB) during the growing season and the growing season in Shushan urban forest, Southeast China. TP total phosphorus; SOC soil organic carbon; TN total nitrogen. Different letters within the same line show represent significant differences (p<0.05, n = 3).

Vegetation type	Soil layer(cm)	Dormant season			
		pH	TP(mg/g)	SOC(g/kg)	TN(g/kg)
PM	0-10	5.33±0.58b	0.11±0.05c	17.87±9.86b	1.13±0.52b
QA		4.60±0.19c	0.19±0.05a	22.87±8.84a	1.57±0.45a
LF		4.98±0.48ab	0.21±0.05b	24.84±10.31a	1.91±0.60a
DB		5.84±0.48a	0.17±0.02b	21.93±5.59a	1.85±0.35a
PM	10-20	5.67±0.76a	0.11±0.10c	11.80±4.07a	0.86±0.22b
QA		4.85±0.36b	0.18±0.03a	16.58±3.54b	1.26±0.27ab
LF		5.18±0.55a	0.19±0.06b	18.50±5.24a	1.57±0.31ab
DB		5.81±0.52a	0.15±0.02b	16.30±2.97a	1.53±0.19a
PM	20-30	5.17±0.48a	0.16±0.05c	13.93±3.90b	1.15±0.26b
QA		5.17±0.48b	0.16±0.05a	13.93±3.90ab	1.15±0.26a
LF		5.46±0.53a	0.17±0.04ab	15.84±4.83ab	1.44±0.27a
DB		6.02±0.47a	0.14±0.03bc	24.37±40.61a	1.56±0.70a

Table 2. Soil physiochemical properties of soil in three soil layers (0-10, 10-20, 20-30cm) of three plantation (PM, QA, LF) forests and secondary deciduous broadleaved forest (DB) during the growing season and the dormant season in Shushan urban forest, Southeast China. TP total phosphorus; SOC soil organic carbon; TN total nitrogen. Different letters within the same line show represent significant differences (p<0.05, n = 3).

Vegetation type	Soil layer(cm)	Growing season		Dormant season	
		H′	D	H′	D
PM	0-10	5.70±0.55ab	3.09±0.13b	3.35±2.04b	2.95±0.31ab
QA		5.74±0.39ab	3.24±0.02ab	2.92±0.58b	2.69±0.15b
LF		6.65±0.63a	3.30±0.06a	5.03±0.22ab	3.11±0.02a
DB		5.16±0.90b	3.15±0.04ab	5.51±4.40a	3.21±0.07a
PM	10-20	4.94±1.02a	3.12±0.01a	2.53±2.17a	2.76±0.54a
QA		5.64±0.09a	3.17±0.09a	2.85±2.06a	2.73±0.37a
LF		5.68±0.68a	3.20±0.06a	4.51±0.16a	3.10±0.05a
DB		5.39±0.53a	3.16±0.02a	4.03±0.56a	2.99±0.11a
PM	20-30	5.80±0.30a	3.05±0.03b	2.92±2.25a	2.68±0.57a
QA		4.68±0.19a	3.08±0.08ab	2.84±1.18a	2.69±0.20a
LF		5.76±0.75a	3.22±0.13b	3.11±0.70a	2.97±0.12a
DB		5.19±0.95a	3.14±0.02ab	3.79±0.56a	3.03±0.03a

Table 3. Diversity of soil microbial communities in the three plantation (PM, QA, LF) forests and secondary deciduous broadleaved forest (DB). Different letters within the same line show represent significant differences (p<0.05,n = 3).