forests

Supplementary materials

Table S1. Changes of soil stoichiometric ratio of nutrients and microbial biomass of different soil aggregates under nitrogen addition.

N addition		SOC:TN	SOC:TP	TN:TP	MBC:MBN	MBC:MBP	MBN:MBP
	micro-	6.28±0.21^{aC}	7.24±0.52^{aA}	1.15±0.05^{aA}	6.54±0.37^{aA}	17.73±2.60^{aA}	2.67±0.27^{aA}
N0	medium-	9.93±1.38^{aA}	6.29±0.61^{aAB}	0.65±0.03^{bB}	7.12±0.51^{aA}	15.97±1.64^{aA}	2.29±0.29^{aB}
	macro-	8.26±0.95^{aA}	6.12±0.61^{aA}	0.75±0.03^{bB}	6.48±0.80^{aA}	20.37±2.46^{aAB}	3.21±0.41^{aA}
	micro-	10.70±0.75^{aA}	6.76±0.39^{aAB}	0.63±0.02^{aD}	5.21±0.24^{aA}	15.00±0.97^{aA}	2.87±0.07^{aA}
N1	medium-	8.43±1.81^{abAB}	6.96±0.49^{aA}	0.90±0.11^{aA}	5.89±0.73^{aAB}	13.41±1.33^{aA}	2.34±0.27^{aB}
	macro-	4.92±0.34^{bB}	4.20±0.26^{bB}	0.85±0.01^{aB}	5.55±0.40^{aAB}	16.72±4.79^{aAB}	3.19±1.11^{aA}
	micro-	6.22±0.10^{bC}	5.32±0.18^{aC}	0.86±0.04^{aBC}	4.45±0.21^{aA}	13.70±4.93^{aA}	3.02±1.01^{aA}
N2	medium-	8.62±0.46^{aAB}	4.84±0.14^{aB}	0.57±0.03^{aB}	3.89±0.74^{aB}	12.76±4.46^{aA}	3.00±0.49^{aAB}
	macro-	5.19±0.66^{bB}	3.36±0.06^{bB}	0.69±0.12^{aB}	3.82±0.14^{aB}	10.37±0.41^{aB}	2.72±0.03^{aA}
	micro-	7.11±0.35^{aBC}	5.74±0.09^{aBC}	0.81±0.03^{bC}	6.09±1.13^{aA}	14.89±0.13^{bA}	2.67±0.41^{bA}
N3	medium-	5.23±0.27^{bB}	5.34±0.06^{aB}	1.03±0.05^{aA}	4.93±0.38^{aAB}	19.57±1.85^{abA}	3.96±0.11^{abA}
	macro-	5.41±0.32^{bB}	4.71±0.47^{aAB}	0.87±0.04^{abB}	5.83±0.59^{aAB}	23.89±1.50^{aA}	4.17±0.34^{aA}
	micro-	8.10±0.38^{aB}	7.84±0.36^{aA}	0.97±0.02^{aB}	5.50±0.06^{aA}	24.32±5.99^{aA}	4.46±1.15^{aA}
N4	medium-	6.91±0.51^{aAB}	7.52±0.21^{aA}	1.10±0.06^{aA}	5.88±0.46^{aAB}	18.86±0.10^{aA}	3.27±0.27^{aAB}
	macro-	4.82±0.48^{bB}	6.38±0.48^{aA}	1.33±0.03^{bA}	5.48±0.51^{aAB}	23.95±2.53^{aA}	4.60±0.80^{aA}

SOC: Soil organic carbon; TN: Total nitrogen; TP: Total phosphorus; MBC: Microbial biomass carbon; MBN: Microbial biomass nitrogen; MBP: Microbial biomass phosphorus. N0, N1, N2, N3, and N4 are five treatments with different N addition levels (0, 10, 20, 40, 80 kg N $ha^{-1}yr^{-1}$), micro-, medium-, and macro- are three levels of aggregates, representing macro-aggregates (< 0.25mm), medium-aggregates (0.25mm-2mm) and micro-aggregates (> 2mm). Different capital letters and small letters indicate the difference between different nitrogen addition concentrations and different soil aggregate sizes, respectively($p<0.05$).