

Table S1. Soil particle composition of different forest types and soil layer

Forest types	Soil layer	Soil particle composition (%)										
		<2μm	2-5.5μm	5.5-11μm	11-22μm	22-62μm	62-125μm	0.125-0.2mm	0.2-0.3mm	0.3-0.6mm	0.6-1.2mm	1.2-2mm
BMF	0-10cm	0.11±0.19	2.66±3.56	3.15±3.29	5.51±5.09	10.42±6.58	9.91±1.76	13.7±1.67	9.92±4.38	32.19±5.88	10.75±8.61	1.63±1.65
CBMF	0-10cm	0±0	2.64±2.01	3.77±1.22	4.58±1.1	9.78±0.23	9.53±4.13	12.4±3.5	10.52±7.8	30.2±1.59	12.2±4.98	4.38±7.59
FF	0-10cm	0±0	2.71±2.6	3.94±1.99	5.13±2.9	10.45±4.55	5.55±2.62	9.42±3.03	1.35±1.15	32.25±12.5	23.93±5.33	5.28±3.03
BF	0-10cm	0±0	3.97±2.13	5.2±1.87	6.17±1.76	11.66±2.04	9.55±2.74	8.89gh±4.45	5.75±2.18	26.92±10.7	19.26±6.26	2.65±3.62
BMF	10-20cm	0±0	2.26±1.51	3.55±1.4	4.91±0.82	10.26±2.04	7±4.62	14.93±1.56	8.13±6.49	31.57±1.23	14.79±6.3	2.61±2.73
CBMF	10-20cm	0±0	2.94±0.66	4.52±0.43	6.35±1.31	14.33±3.73	15.11±2.63	14.44±1.66	10.74±3.41	25.74±1.41	3.84±3.42	1.99±2.18
FF	10-20cm	0±0	3.31±1.8	4.85±1.96	5.97±2.95	12.36±4.5	8.87±2.18	11.15±3.34	6.6±4.25	35.58±2.14	8.8±6.74	1.83±3.17
BF	10-20cm	0±0	2.63±1.28	4.2±0.95	5.97±0.84	11.99±2.44	11.44±1.4	12.92±3.3	13.89±1.55	25.2±1.52	11.43±4.37	0.33±0.57
BMF	20-30cm	0±0	2.84±2.28	3.8±1.59	5.58±2.76	10.58±3.89	13.22±3.22	13.46±4.52	15.25±0.72	25.49±2.58	8.88±10.74	0.9±1.55
CBMF	20-30cm	0±0	2.97±0.9	4.19±0.85	5.67±1.57	12.68±3.7	12.66±3.12	16.82±4.19	7.47±6.21	27.94±2.46	7.26±7.94	2.34±4.05
FF	20-30cm	0±0	2.19±1.1	3.99±0.45	5.74±0.66	11.15±0.71	9.44±0.1	11.03±2.96	11.12±1.5	29.51±3.71	15.34±2.87	0.49±0.04
BF	20-30cm	0±0	2.2±1.51	4.26±0.91	6.5±1.77	12.46±3.36	11.08±1.88	13.66±5.85	11.24±1.7	24.52±6.48	12.93±6.44	1.14±1.65

Note: BMF, broad-leaved forest; CBF, coniferous and broad-leaved forest; FF, Chinese fir forest; BF, bamboo forest.

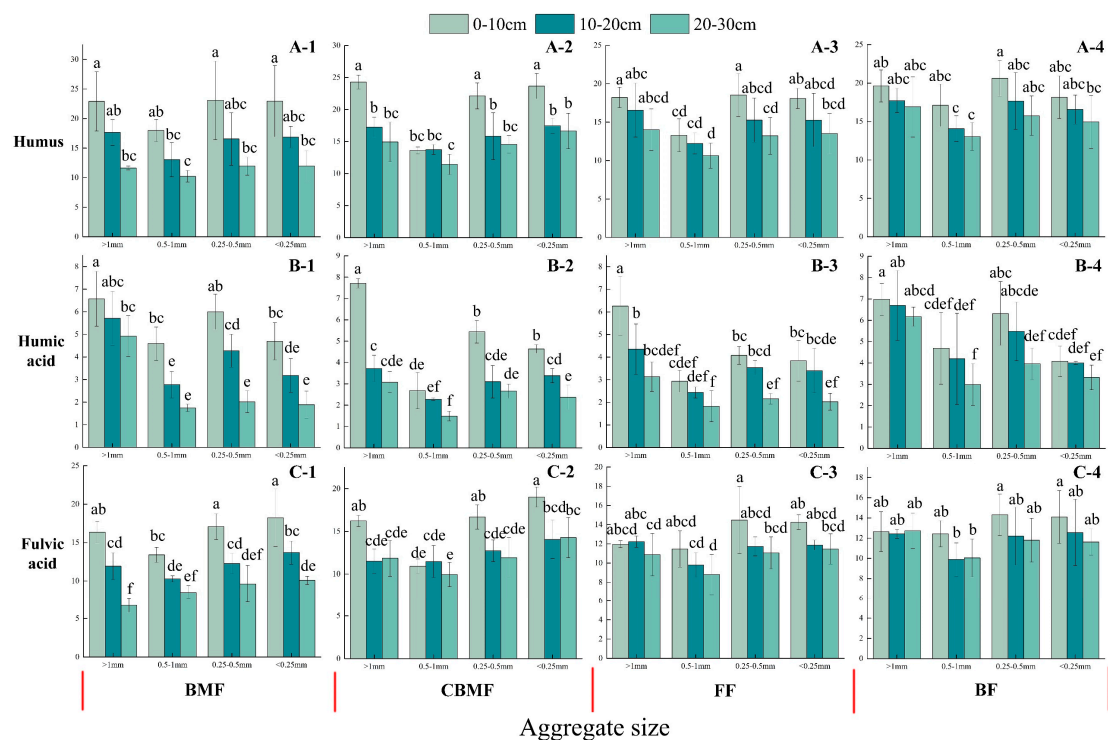


Figure S1. Distribution of aggregate-associated humic substances. (A-), (B-) and (C-) represent aggregate-associated humus, humic acids and fulvic acids; (-1) to (-4) represent BMF,CBMF, FF and BF.