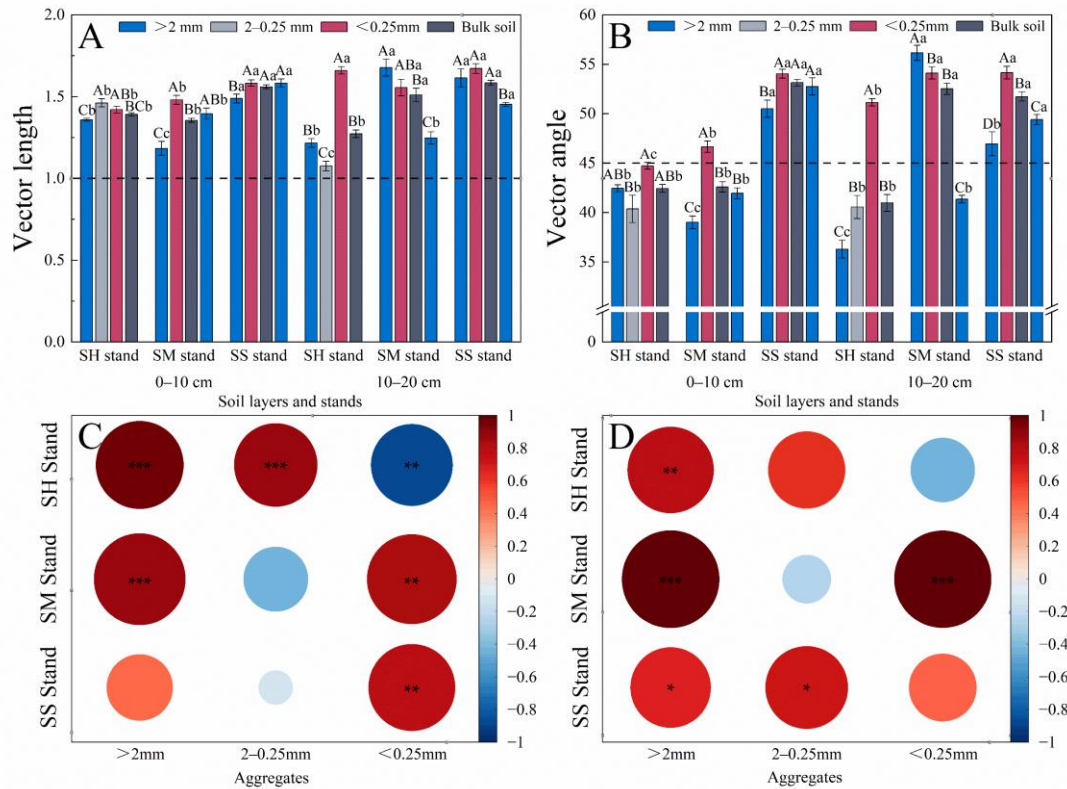


Supplementary Table S1. Effects of stand and aggregates and their interactions on soil organic C, N and P and their stoichiometric ratios.

Soil layer	Indicator	Stand type (S), d.f. =2		Aggregate size (A), d.f. =3		S × A, d.f. =6		Adjusted R ²
		<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	
0-10 cm	OC	1603.27	< 0.001	276.61	< 0.001	8.85	< 0.001	0.986
	TN	253.52	< 0.001	1.48	0.232	8.33	< 0.001	0.903
	TP	12.23	< 0.001	1.67	0.187	0.66	0.680	0.276
	ROC	497.83	< 0.001	1.64	0.192	0.34	0.913	0.944
	AN	504.92	< 0.001	10.05	< 0.001	2.80	0.020	0.947
	AP	109.60	< 0.001	49.75	< 0.001	7.92	< 0.001	0.873
	C: N ratio	0.89	0.417	32.58	< 0.001	7.41	< 0.001	0.693
	C: P ratio	7.23	0.002	2.12	0.110	0.69	0.660	0.191
	N: P ratio	6.10	0.004	1.30	0.287	0.42	0.862	0.114
10-20 cm	OC	683.18	< 0.001	130.38	< 0.001	8.81	< 0.001	0.968
	TN	13.36	< 0.001	10.32	< 0.001	10.38	< 0.001	0.649
	TP	9.41	< 0.001	5.89	0.002	1.77	0.126	0.380
	ROC	65.88	< 0.001	4.83	0.005	1.73	0.135	0.712
	AN	223.67	< 0.001	11.89	< 0.001	5.34	< 0.001	0.895
	AP	118.73	< 0.001	5.52	0.002	18.20	< 0.001	0.857
	C: N ratio	46.98	< 0.001	2.16	0.106	7.48	< 0.001	0.695
	C: P ratio	23.56	< 0.001	1.34	0.272	1.21	0.317	0.446
	N: P ratio	9.92	< 0.001	1.16	0.336	2.50	0.035	0.317



Supplementary Figure S1. Effect of different stands on vector length (A), vector angle (B) and their correlation. Pearson's correlation analysis for aggregates and total soil with respect to vector length (C) and vector angle (D). Different lowercase letters indicate significant differences among different stand types for the same aggregate size and soil layer ($p < 0.05$). Different capital letters indicate significant differences among different aggregates in the same stand type and soil layer ($p < 0.05$). Solid and dashed lines represent the significant and nonsignificant linear relationship between VA and VL ($p < 0.05$), respectively. The symbols *, ** and *** indicate significance at the 0.05, 0.01 and 0.001 levels, respectively.