

Appendix A. Supplementary data

Fig. S1 Dissolved organic C (DOC, mg kg⁻¹), microbial biomass C (MBC, mg kg⁻¹), ammonium N (NH₄⁺, mg kg⁻¹), microbial biomass N (MBN, mg kg⁻¹), Olsen-P and microbial biomass P (MBP, mg kg⁻¹) content in the rhizosphere and bulk control soil, and soil to which PE and PVC were added at two content levels (0.01% and 1% of the soil dry weight). Values are means (±SD, n = 3) of three replicates. Different lowercase letters (a, b, c, and d) indicate significantly different means among the different content of PE and PVC ($p < 0.05$).

Fig. S2 Principal component analysis of the soil C/N, C/P, N/P and C/N/P acquisition ratio (based on the activities of enzymes responsible for C, N, and P hydrolysis) in untreated soil (control) and soil to which the PE and PVC were added at two content levels (0.01% and 1%).

Fig. S3 Contribution of three classes of BG, XYL, ACP and NAG activity to total activity on the zymogram area. Data represent mean values of three independent rhizotrons each of them with 3 roots. Blue: low activity; yellow: medium activity, red: hotspots.

Fig S1

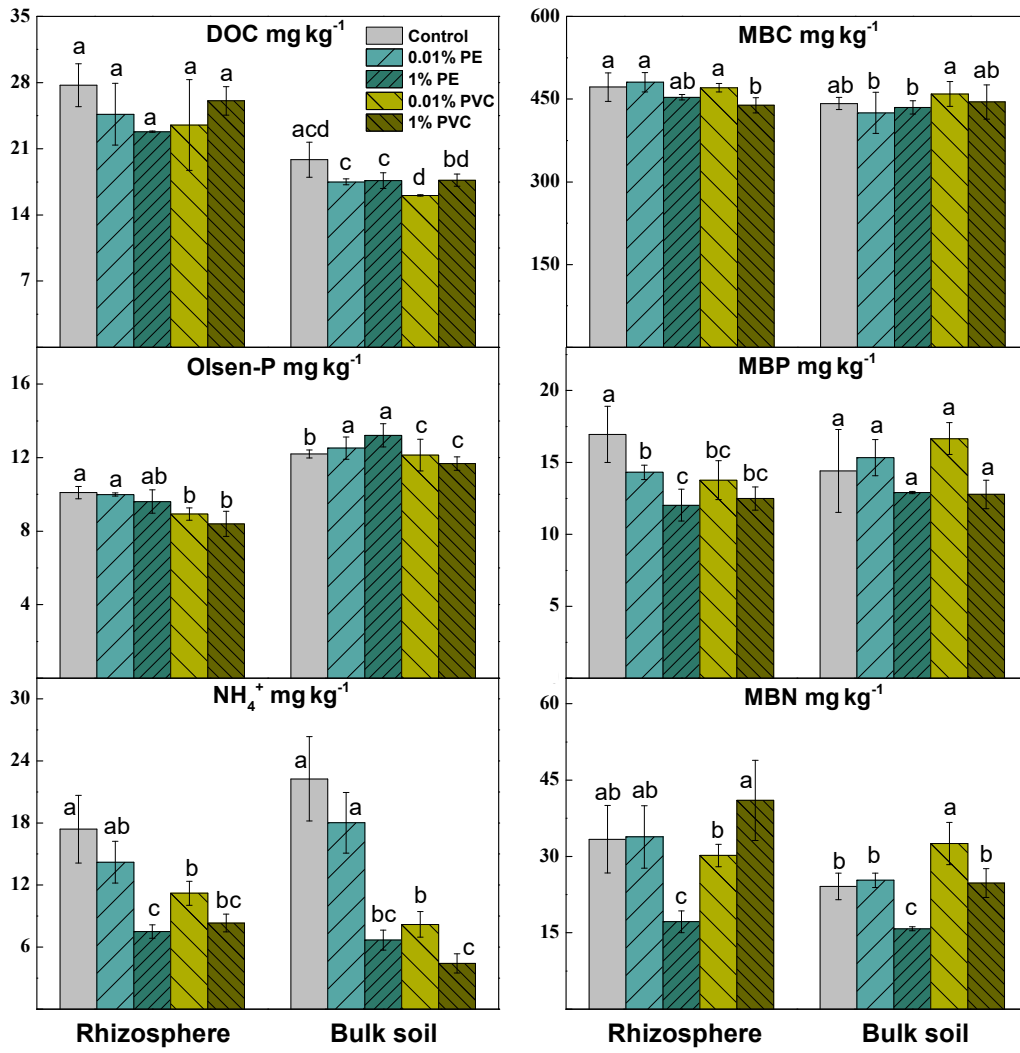


Fig. S2

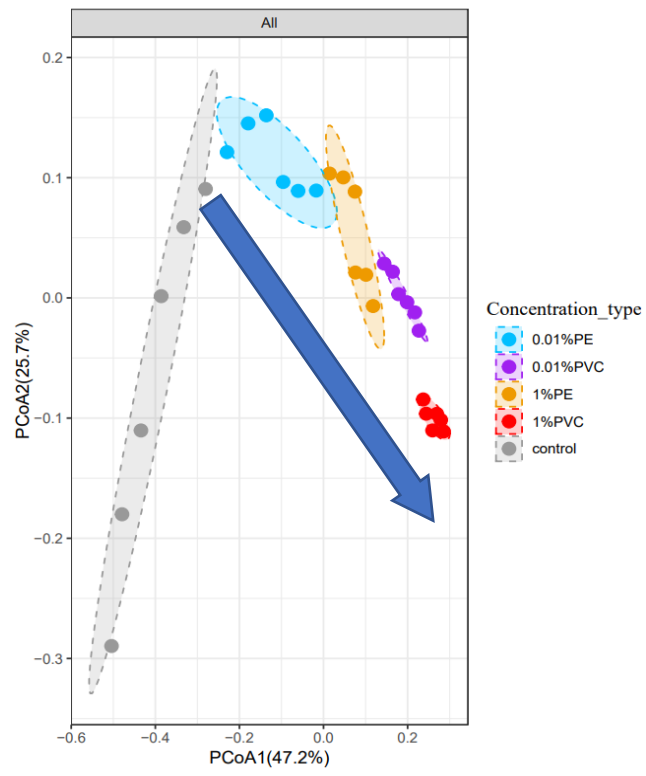


Fig. S3

