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Solid Earth Discussions

Interactive comment on "Soil carbon fractions and enzyme activities under different vegetation types on the Loess Plateau of China" *by* Haixin Zhang et al.

Anonymous Referee #1

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General comments: The manuscript entitled "oil carbon fractions and enzyme activities under different vegetation types on the Loess Plateau of China" shows data of carbon fractions and enzyme activities under different vegetations. The manuscript lacks the novelty. In addition, it is difficult to be understood for the English is poor and the language is with lots of grammar errors and unclear expressions. I suggest the author ask for the English expert to polish the language.

Specific comments:

Introduction: 1. The authors did not address relevant scientific questions and the objects of this study. 2. Page 3, line 45, "soils health" should be changed to "soil health" 3. Page 5, line 94, "various type vegetations" is corrected with "various vegetation types".

Materials and Methods: 1. Page 6, lines 106-109, "For each vegetation type, four representative plant communities were chosen (Table 1), and, as replicates, three sampling areas were defined in the field for each representative plant community. In each representative plant community, three sampling plots were delineated. " What it means? 2. Page 6, line 121, "different type soil" is corrected with "different soil types".

Results 1. Page 10, lines 197-198, "The total N concentration of forest was significantly higher than the total N of both forest steppe and grassland" is corrected with "The total N concentration in forest was significantly higher than those in both forest steppe and grassland". 2. Page 10, lines 199-200, "The total P concentration of grassland vegetation was significantly lower than for both forest and forest steppe." This sentence is replaced with "The total P concentration was significantly lower in grassland than in both forest and forest steppe." 3. Page 10, line 223, "was" is corrected with "were".

Disscusion With respect to the effect of vegetation on soil carbon fractions and enzyme activities, there were some literatures. Why have the authors yet studied the effect?

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