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Interactive comment

Interactive comment on "Response of soil respiration and soil microbial biomass carbon and nitrogen to grazing management in the Loess Plateau, China" by Zhen Wang et al.

Anonymous Referee #2

Received and published: 10 February 2019

The authors investigated how grazing intensities and grazing patterns affect soil respiration as well as the potential underlying mechanisms. Their results are interesting and can be potentially published somewhere. But for the current MS, it was quite confusion and unclear (please see some of my specific comments below). Moreover, there were many gramma errors across the whole MS, I did not list all of these errors, it was quite time-consuming. I deeply understand the writing difficulties for the non-native English researchers, but this MS was quite immature for submission. I suggest that authors should well prepare their manuscript for the next submission.

Abstract The abstract should be rewritten, particularly for the description of your re-

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Discussion paper



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2011-2018, since these experiments were conducted eight years ago? The descrip-

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tion about your Rs measurements is unclear, even though you had some citations here. Why do you only measure Rs during the middle of May, September, and December? Do you mean ST and SM measured for all treatments or only for the control? It was quite confusion. Do you mean ST and SM only measure for the dates when RS was measured? How can you come true the random but adjacent the pots for Rs measurements? As soon as possible? How fast is it? Within several minutes, several hours or even several days? Many variables were measured repeatedly across the seasons or years, so a repeated ANOVA analysis should be used for your statistical analysis. You should have more information about the description of SEM analysis. Results Your whole results sections are quite confusion. I think there are many related studies published, you can read how they write their results section. After the subtitle "SMBC and SMBN", you have a lot of description on ST, SM, AGB, BGB, or even the results from your data analysis. Do you need more subtitles? Discussion Sorry, I do not read your discussion. There are many gramma errors, confusion sentences or even very strange descriptions impeding my review. I will stop here. I think the authors should well prepare their manuscript for the next submission. Figures and tables Table 1. Repeated ANOVA analysis should be conducted. Table 2. What do "WG" and "CG" stand for? Figure 1. Is this figure related to your study? You have legend for forest, grassland... If you want show a figure like this, I would suggest you show your experiments design since it was now very confusion. Figure 3. Why did you only measure soil respiration from three months? Figures should be presented in a easier way depending on what you want to compare. Figure 5. Why do your determine to use line chart here? There are many overlaps. You symbols are not very similar. It was very hard for me to understand your figure. Abbreviations were rarely used in the titles or in the first word of a sentence. How can you construct your SEM in this way? Was it based on your model comparison or randomly?

Interactive comment on Biogeosciences Discuss., https://doi.org/10.5194/bg-2018-531, 2019.