

SOIL Discuss., community comment CC1  
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## Comment on soil-2020-92

Dan Wan

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Community comment on "The role of geochemistry in organic carbon stabilization against microbial decomposition in tropical rainforest soils" by Mario Reichenbach et al., SOIL Discuss., <https://doi.org/10.5194/soil-2020-92-CC1>, 2021

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An interesting work. I have some minor comments on this manuscript.

1) this is a research article, so the subtitle of the introduction is unnecessary, the authors should rearrange this section;

2) line 260: the concentration of OM-complexed metal usually very low, diluted this solution by 1000 folds, the concentration of Fe, Al and Mn may below the detection limit of ICP-OES□

3) the SOC stabilization mechanism was pH-dependent (Rasmussen et al., 2018 Biogeochemistry 137, 297– 306; Wan et al., 2019 Eur. J. Soil Sci. 70, 1153–1163; Wan et al., 2021 Sci. Total Environ. 10.1016/j.scitotenv.2021.145037), therefore, the soil pH should be added to the results and discussed.

4) the meaning of letters (e.g. a, b, A, B) in figures 3 and 4 was not clear, I can not understand these figures easily. Besides, the color scheme of all figures was not appropriate, the authors should select the same color system or use grayscales (white, black, and gray) or patterns for bars. Table 3 has the same problem.