

Interactive comment on “Differences and influencing factors for underground water carbon uptake by karsts in Houzhai Basin, southwest China” by Junyi Zhang et al.

In this manuscript, authors analysis the influencing factors of chemical weathering and flow on karst carbon sink. The author accumulated a large amount of data, which is reliably for the discussion. This study has a certain guiding significance for carbon sink research. However, there are some erros listd as follow that should be corrected. After they are modified, I think this mansucript can be published.

- (1) Runoff and chemical weathering were considered in this article, but what about the temperature, plants, aquatic organism, etc. At least, the factors should be explained in the introduction section.
- (2) Flow and ion concentration change and its effects on carbon sink, but hydrodynamic condition that control the cantact time of water-rock, may have more important influence on the carbon sink. So the results of the article should be deep analysis.
- (3) The quality of the ms is poor in English express. I strongly suggest the authors to polish the English. There are many professional editing services.