

Interactive comment on “Frictional slip weakening and shear-enhanced crystallinity in simulated coal fault gouges at subseismic slip rates” by Caiyuan Fan et al.

Jianye Chen (Editor)

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Received and published: 22 May 2020

Dear Autors,

We have received two reviews which agree on the high importance, quality, and timeliness as well as clear writing of your manuscript. In agreement with the reviewers, I certainly recommend publication after addressing the comments and formatting issues, which are considered to be both minor.

Two additional comments which may be helpful: 1. I agree that there is rare data available on the friction strength, stability and healing of carbonaceous materials. The

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authors could dig a bit on this and give a short review on or comparison with previous studies.

2. In your microstructures, you have marked many 'fractures'. If I understand correctly, you are analyzing fragments not thin section. I suggest being careful about the fractures. Some may form when you split the sample.

Jianye Chen

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2020-43>, 2020.

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