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## Comment on acp-2021-947

Shaofei Kong

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Community comment on "Measurement report: The importance of biomass burning in light extinction and direct radiative effect of urban aerosol during the COVID-19 lockdown in Xi'an, China" by Jie Tian et al., Atmos. Chem. Phys. Discuss.,  
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This manuscript, titled by The importance of biomass burning in light extinction and direct radiative effect of urban aerosol during the COVID-19 lockdown in China, investigated the impacts of COVID-19 lockdown on aerosol light extinction and direct radiative effect. In fact, many studies have been conducted to explore the impacts of lockdown measures on the aerosol compositions, but how the lockdown measures influenced the aerosol optical property and direct radiative effect is limited. Though the information given in this study has been well known, it is suitable to publish on the Measurement Report. I suggest a major revision of this paper. Before acceptance, some issues must be clarified.

- The contributions of biomass burning to aerosol bext and DRF increased during lockdown period in this study which just focused on only one site. How did you find out that the importance of control biomass burning for tackling climate change in China? More evidence in the other region should be provided to make your conclusion robust.
- Many studies have proved that sulfate can emitted from coal combustion, especially in the regions where a great deal of coal consumed every year, such as Xi'an. Thus, is it proper to regard sulfate as the secondary source?
- Some important references about aerosol optical property have not been cited in this study, such as Xu et al., 2020, ESTL, Liu et al., 2020, GRL and Yao et al., 2021, npj CAS. I think these articles may improve your Introduction and discussion.
- Line 30 "importance of biomass burning for tackling climate change" is "importance of control biomass burning for tackling climate change"□
- The mass and optical property closure should be conducted after the source apportionment.
- Some details such as line 201 "which is " or "which are", should be checked carefully.