

Interactive comment on “Accounting for the effects of non-ideal minor structures on the optical properties of black carbon aerosols” by Shiwen Teng et al.

Anonymous Referee #3

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This manuscript deals with non-ideal minor structures effect to optical properties of black carbon aerosols. The subject falls clearly to the scope of ACP and it presents new correction factor to account for the mass/volume normalized absorption and scattering of non-ideal aggregates in comparison to ideal ones. The manuscript is well written and it proceeds in logical manner, and it thoroughly enough explains the used methods and outcomes. The title reflects the content of the paper and the abstract provides complete summary. I recommend accept the manuscript with minor revisions with followig consideration. What I am missing are the examples how this new factor would change e.g. radiative transfer calculations (radiative forcing) or analysis of the experimental measurements compared to present estimations. I highly recommend to

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add such examples.

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-1102>, 2018.

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