

Interactive comment on “Absorption coefficient of urban aerosol in Nanjing, west Yangtze River Delta of China” by B. L. Zhuang et al.

Anonymous Referee #3

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General Comments The paper presents 2-year measurements of aerosol absorption optical coefficients at an urban site in Nanjing of China. The paper provides some points to temporal variations of aerosol absorption optical properties and their possible reasons, and influence of biomass burning and pollutions. In fact, high aerosol burden regions such as areas in developing countries are still not well characterized in terms of microphysical and optical changes. The paper also analyzed the influence of meteorological factors on aerosol optical properties. The topic of this paper is of common interest within the scientific community. Although the manuscript includes some important data, however, the quality is not sufficient in the current state to be directly published. The authors should take the suggestions made here into consideration for minor revision.

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Specific suggestions 1. In section 2, the authors should add some information of the methods for calculating and correcting aerosol absorptive coefficient, such as WC2003 and SC2006, especially estimating their errors. 2. In section 3, the paper gives more analyses of aerosol absorptive coefficient variation and its reasons, however, what is the aim or usefulness of three different methods to calculate and compare coefficients? 3. More comparison between previous results and this study is needed. 4. English needs more revision.

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