

Interactive comment on “Particle size distribution and new particle formation under influence of biomass burning at a high altitude background site of Mt. Yulong (3410 m) in China” by Dongjie Shang et al.

Anonymous Referee #3

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This is a well prepared paper on the particle size distribution and NPF at a high elevated background site of China. My only concern is that the author indicated that N25-100 correlates to primary emission, e.g. traffic sources and biomass burning and PN100-1000 has stronger connection with secondary formation. Also, the author attributed the extreme value at 340 nm to the contribution of primary emission and aging processes. The paper Wu et al., 2008 was cited. However, Wu et al. (2008) indicated that “Laboratory studies showed that mean diameters for the number size distributions of particles emitted by gasoline engines ranged from 40 nm to 80 nm” and “Their re-

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sults showed that geometric mean diameters of particles emitted by all kinds of biofuels combustion were in the range from 110 nm to 200 nm.” So the author should cited the emission test results for different kinds of fuels burning directly (diesel and gasoline traffic, biomass burning, coal, etc.) and re-write corresponding sentences.

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