

Atmos. Chem. Phys. Discuss., referee comment RC2
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Comment on acp-2021-466

Hugo Denier van der Gon (Referee)

Referee comment on "Contribution of traffic-originated nanoparticle emissions to regional and local aerosol levels" by Miska Olin et al., Atmos. Chem. Phys. Discuss.,
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The study describes an elegant empirical way to update the only European size-resolved Particle Number inventory and evaluates the results against observations. Ultra fine particles (UFP) and particle numbers (PN) in the atmosphere are not regulated like PM_{2.5} or PM₁₀. There are no air quality limit values nor obligations to monitor these metrics. As a result our understanding, as well as emission data, measurements, concentrations and related information is scarce. Clearly more information is needed and the paper is a welcome and original contribution, and fitting for ACP. In my opinion the paper can be published after some necessary corrections and further clarifications have been made. See the attached file for further comments

Please also note the supplement to this comment:
<https://acp.copernicus.org/preprints/acp-2021-466/acp-2021-466-RC2-supplement.pdf>