

Technical corrections:

line 97: Please change "...ratein..." to "...rate in...".

line 108: Please explain "D50" also in the main text when first mentioning it.

line 185: Please add "Stolzenburg et al. 2023" citation in the list of references.

lines 332-335: Please correct the "Lehtipalo et al. 2014" entry.

Supplement Figure S1b and Figure S2a: Please add at least a second y-axis tick label to clarify the meaning of the y-axis values in Figures S1b and S2a.

**Answer:** We appreciate the editor's technical corrections and have made the necessary modifications to the manuscript to reflect the high quality of the journal. We have also made small adjustments to the legends in Figures 3 and 4 to make them more colorblind friendly.

line 97: Please change "...ratein..." to "...rate in...".

**Answer:** We have corrected this grammatical error.

line 108: Please explain "D50" also in the main text when first mentioning it.

**Answer:** The editor is correct in that we have forgotten to explain D50 in the text. We have added an explanation to the text by modifying the text to: D50 is the particle diameter at which 50% of the particles are activated on a given flow rate.

line 185: Please add "Stolzenburg et al. 2023" citation in the list of references.

**Answer:** This has been added to the list of references.

lines 332-335: Please correct the "Lehtipalo et al. 2014" entry.

**Answer:** This formatting error has been fixed.

Supplement Figure S1b and Figure S2a: Please add at least a second y-axis tick label to clarify the meaning of the y-axis values in Figures S1b and S2a.

**Answer:** We have added further tick labels on the y-axis where there was only a single tick in figures S1b and S2a.