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## scientific reports

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## **OPEN** Author Correction: Elemental analysis of single ambient aerosol particles using laser-induced breakdown spectroscopy

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Correction to: Scientific Reports https://doi.org/10.1038/s41598-022-18349-8, published online 29 August 2022

The original version of this Article contained errors. The particle size in Figures 3 and 5 was incorrectly calculated. This slightly affected the particle charge. The corrected particle sizes are 400 nm, 600 nm and 1100 nm and the corrected particle charge distributions are shown in the figures.

The original Figure 3 and 5 and accompanying legends appear below.

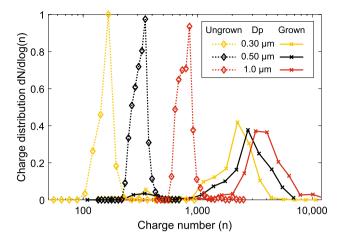
As the result, in the Characterization results, under the subheading 'Size amplification aided aerosol charger (SAAC)',

"When processed as log-normal, mean geometric charge values of 2300, 2900 and 3700 were fit to the distributions for initial sizes of 0.3 µm, 0.5 µm and 1.0 µm, respectively."

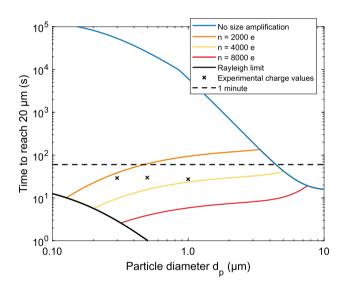
now reads:

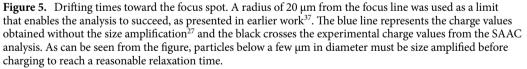
"When processed as log-normal, mean geometric charge values of 3600, 4000 and 4400 were fit to the distributions for initial sizes of 0.4 µm, 0.6 µm and 1.1 µm, respectively."

The original Article has been corrected.



**Figure 3.** Charge states achieved with the SAAC. The dotted lines present charging states for dry particles, and the solid lines for the size amplified particles. The legend entries present the dry particle diameter. As can be seen from the figure, the dry size has some effect on the final charge of the grown particles. All the curves have been normalized due to their area in the logarithmic scale.





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