

Additional comments on acp-2022-676

This is a well-prepared manuscript; there is also some discussion, but not much on atmospheric implications of authors' results. However, their findings provide new insights for the analysis of chemical properties and sources of atmospheric fluorophores using the excitation-emission matrix fluorescence spectroscopy.

Besides the comments of the two experts in the field, I have few additional suggestions (lines in MS-version2):

Line 49: Some newer references on BrC organic compounds could be added (e.g., Frka et al., *Chemosphere* 2022, 299(11), 134381).

Line 67: For fluorescent components in aerosol particles, reference of Ma et al. (*Chemosphere*, 2022) should be added.

Line 127 & lines 210-213: some references on typical atmospheric BrC compounds could be added (see e.g., Frka et al, 2022, *Chemosphere*).

Line 154: Error. Unit for the resistivity is $M\Omega\cdot cm$, so for Milli-Q water (ultra-pure) is $18.2 M\Omega\cdot cm$.

Page 14 (end of paragraph): Please, check the references on formation of new secondary organic compounds (second generation) absorbing light at longer wavelengths (for example: Vidović et al., *Environ. Sci. Technol.* 2019, 53, 11195-11203; Vidović et al, *Atmosphere* 2020, 11, 131).