

Dear Prof. Willy,

Thank you very much for your time, and particularly for your careful reading and valuable suggestion. We have made all changes accordingly. Thank you again!

For the Main text:

Line 45: Replace "by seasons" by "by season".

Response: Change made.

Line 66: Replace "by those" by "by the".

Response: Change made.

Lines 67 and 71: Replace "Li et" by "X. Li et".

Response: Change made.

Line 88: Replace "combustion was" by "combustion were".

Response: Change made.

Line 100: Replace "still very" by "is still very".

Response: Change made.

Line 107: Replace "on PMF" by "on the PMF".

Response: Change made.

Line 126: Replace "et al., 2020" by "et al. (2020)" and replace "was measured" by "was analyzed".

Response: Change made.

Lines 132, 134, 181-183, 360, 632 (within Figure 4), and 633 (within Figure 5): Several concentration data are given with too many significant figures; two significant

figures normally suffice and three suffice when the first significant figure is "1"; thus, as examples, replace "52.6" by "53", "127.1" by "127", "56.3" by "56", "12.90" by "12.9", and "243.0" by "240".

Response: Change made.

Line 137: Replace "The UV-Vis" by "A UV-Vis".

Response: Change made.

Line 141: Replace "measured" by "the measured".

Response: Change made.

Line 145: Replace "in LWC" by "in the LWC".

Response: Change made.

Line 157: Replace "of NACs was resolved by PMF measured" by "of the NACs were resolved by the PMF".

Response: Change made.

Line 172: Replace "of different" by "of the different".

Response: Change made.

Line 175: Replace "with stating" by "with starting".

Response: Change made.

Line 179: Replace "of NACs" by "of the NACs".

Response: Change made.

Line 199: Replace "to its" by "to their".

Response: Change made.

Line 209: Replace "founded that the emission factors of 4-nitrocatechol was" by "found that the emission factors of 4-nitrocatechol were".

Response: Change made.

Line 210: Replace "than other NAC" by "than those of other NACs" and replace "concentration of" by "concentrations of".

Response: Change made.

Line 212: Replace "which is about 3-7 times higher than other NAC" by "and found that they are about 3-7 times higher than those of other NACs".

Response: Change made.

Line 218: Replace "than that in" by "than in".

Response: Change made.

Line 220: Replace "(Li et al., 2020), photochemical" by "(M. Li et al., 2020) and photochemical".

Response: Change made.

Line 223: Replace "among NACs" by "among the NACs".

Response: Change made.

Line 226: Replace "different" by "the different".

Response: Change made.

Lines 237-238: Replace "Li et al." by "M. Li et al.".

Response: Change made.

Line 238: Replace "correlations between" by "correlations of".

Response: Change made.

Line 241: Replace "which is mainly" by "which are mainly".

Response: Change made.

Line 245: Replace "of NACs" by "of the NACs".

Response: Change made.

Line 251: Replace "characterized with" by "characterized by".

Response: Change made.

Line 265: Replace "sources contributions" by "source contributions".

Response: Change made.

Line 285: Replace "of NACs" by "of the NACs".

Response: Change made.

Line 315: Replace "contributions were" by "contributions are".

Response: Change made.

Line 336: Replace "in four seasons" by "in all four seasons".

Response: Change made.

Line 347: Replace ", 4-nitrocatechol" by ", and 4-nitrocatechol".

Response: Change made.

Line 351: Replace "trends were" by "trends are".

Response: Change made.

Line 357: Replace "Conclusion" by "Conclusions".

Response: Change made.

Line 359: Replace "of NACs" by "of the NACs".

Response: Change made.

Line 368: Replace "had significantly" by "had a significant".

Response: Change made.

Line 380: Replace "BrC and more" by "BrC. More".

Response: Change made.

Line 429: Replace "Atmospheric Pollution Research," by "Atmos. Pollut. Res., 1,".

Response: Change made.

Line 510: Replace "Environmental Research" by "Environ. Res.".

Response: Change made.

Line 543: Replace "Total. Environ." by "Total Environ.".

Response: Change made.

Line 615: Replace "individual NAC" by "individual NACs".

Response: Change made.

Lines 625, 630, 634 and 638: Replace "these compounds are shown" by "the compounds are given".

Response: Change made.

Line 628: Replace "The average" by "Average".

Response: Change made.

For the Supplement:

Line 33: Replace "in bracket" by "in parentheses".

Response: Change made.

Line 37: Replace "sources contributions" by "source contributions" and within Table S6, replace twice "Sources contribution" by "Source contribution".

Response: Change made.

Line 47: Replace "NAC standard" by "NAC standards".

Response: Change made.