

Dear Editor,

We greatly appreciate your positive decision and constructive suggestions. As you suggested, the language/grammatical errors have been edited by a native speaker. These revisions are described in detail below.

line 97: "some other researches" is incorrect

Response: Thank you. It has been replaced with "Other studies".

line 100: not clear what "Ji'an" refers to

Response: Thank you. I'm sorry for the mistake. It's Ji'nan. It has been corrected.

line 101: "In addition, the traffic emission was proposed to be...." should be "....traffic emissions were proposed..."

Response: Thank you. It has been corrected.

line 106: "more studies is still required..." should be "are required.."

Response: Thank you. It has been corrected.

line 157: "they were believed as minor sources" should be "...to be minor sources.."

Response: Thank you. It has been corrected.

line 236: "....pollution events showed...."; "exhibited" would be better.

Response: Thank you. It has been corrected.

line 286: "The similar trends...." should be "...similar trends..."

Response: Thank you. It has been corrected.

line 315: do not start sentence with "Because"

Response: Thank you. This sentence has been corrected as "These results imply that the relative importance of the photolysis of HONO compared with that of O₃ for

initiating the daytime HO_x and RO_x chemistry on polluted days is more important in winter than from April to June **because the production of OH from the photolysis of O₃ should be directly proportional to P_{O1D}**”.

line 325: "...2003), subsequently contribute to..." should be "...contributing..."

Response: Thank you. It has been corrected.

line 337: "...HONO exhibited quick reduction" should be "... a quick reduction..."

Response: Thank you. It has been corrected.

line 360: I think you mean ammonia not ammonium.

Response: Thank you. Yes, I mean ammonia. It has been corrected.

line 396: "... the lowest marge with..."; not clear what this is

Response: Thank you. It has been revised as “In the 2D space of HONO vs. NO_x (Fig. S8), **the data below the 2nd percentile of HONO/NO_x and** with ΔNO/ΔNO_x values of greater than 0.8 were chosen for the linear correlation”.

line 398: should be: "...an interference from the sampling inlet overestimated HONO concentration by 6.7%..."

Response: Thank you. It has been corrected.

line 455: should be - "...taken as the lower limit for..."

Response: Thank you. It has been corrected.

line 509: should be - "...on ground surfaces..."

Response: Thank you. It has been corrected.

Additional corrections:

The edits from a native speaker has been marked in blue.