

Interactive comment on “Isotopic partitioning of nitrogen in PM_{2.5} at Beijing and a background site of China” by Yan-Li Wang et al.

Anonymous Referee #1

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To understand PM_{2.5} at Beijing and a background site of China to use isotopic nitrogen is very important issue. But, the paper is some critical problems; most important problem is bulk nitrogen isotope of PM_{2.5}. Authors must classify nitrogen isotope of ammonia and nitrate of PM_{2.5}. Recently, many researches as similar field can classify and describe some methods. If don't classify, source apportionment for nitrogen PM_{2.5} can't conduct because nitrogen isotope for ammonia and nitrate is very similar, please see the figure 1. This interpretations in Line 320 to 338 and Line 347 to 356 are poorly supported by the data and evidences and based on very weak effects. The results look like too much a summary of technical reports. In addition, this study approach and methods are overlapped previous studies on 80's to 90's. Thus, international standards in data quality and data presentation are not met. Thus, I can't recommend this article for ACP publication because it has extensive problems.

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