The present manuscript "***Ambient ozone pollution at a coal chemical industry city in the border of Loess Plateau and Mu Us Desert: Characteristics, sensitivity analysis and control strategies***" research on the ambient ozone pollution and sensitivity in Yulin city through observed, trajectory air masses and box model. It presented the temporal and spatial distributions of the concentrations of ozone and its precursors, the ozone photochemical processes and ozone control strategies, which is helpful to understanding the photochemistry of ozone in urban areas of Loess Plateau in China. It can be accepted after major revision. Detail comments are as following:

1. The language of this manuscript needs further refinement to eliminate many simple grammatical problems and improve readability. A thorough proofreading and grammar check would be welcome.
2. Line 45, recheck O3.
3. Line 46, the authors cannot use the word "trend" just based on three years data.
4. Line 83, "Yulin is a typical energy resource city…". The authors should provide the details of energy use in this city.
5. Line 98, "T, RH, WS and WD…". The authors should use Temperature, Relative humity…
6. Line 128, please provide the name of the weather field.
7. Line 136, please provide the parameters of the box model. The authors need to explain how the simulations be carried out without the Nitric Oxide (NO) concentrations.
8. Line 181, "…, like the national average level' should be changed to "comparable to the national averaged level"
9. Line 196, "This phenomenon indicated that …". The phenomenon just indicated increase of O_3 levels, which can not be concluded that the reasons.
10. Line 199-Line 200, please recheck the grammar of this sentence.
11. Line 202, "…, O_3 concentrations in summer and spring were higher and …". The English grammar of this sentence is incorrect and expression is ambiguous. It is strongly advised to polish the whole article.

12. Line 206-209, “On the other hand…”. This sentence should be deleted as the following discussion did not support this view.

13. Line 213-Line 214, please recheck the grammar of the sentence.