

Review of: "Control of particulate nitrate air pollution in China"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

The paper simplified, the complex physical and chemical processes related to lifetime and concentration of particle nitrate ($[\text{NO}_3^-]\text{-particle}$) into 3 equations. From the equations we can easily comprehend the sensitivity of $[\text{NO}_3^-]\text{-particle}$ to the changes of the ratio of $[\text{NO}_3^-]\text{-particle} / [\text{NO}_3^-]\text{-(gas+particle)}$ and their depositions. I think only these formulae could explain that the lack of response of nitrate to NO_x emission controls in winter and even increased during winter haze pollution events in the North China Plain, also verified by chemical transport model.