

# ***Interactive comment on “Nutrients Dissolution Kinetics of Aerosols at Qianliyan Island, the Yellow Sea by a High Time-resolution Nutrient Dissolution Experiment, Potential Linkages with Inorganic Compositions and P solubility controlled factors” by Ke Zhang et al.***

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As the authors replied, there were no replicates for the high time-resolution dissolution experiment in this study. This is a serious issue the readership will concern. Without data reproducibility experiments, it is difficult to guarantee the reliability of the results.

Moreover, Qianliyan island ( $36^{\circ}16'\text{N}$ ,  $120^{\circ}23'\text{E}$ ) is a very small islet with an area of  $0.2\text{ km}^2$  (length:  $0.82\text{ km}$ ; width:  $0.24\text{ km}$ ). It is only one sampling point and cannot

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represent the whole Yellow Sea and its coastal areas. A broader sampling area should be covered.

Additionally, in this work the authors selected only six aerosols (spr-SW, spr-NW, sum-NW, aut-NW, win-NW1 and win-NW2) to capture seasonal main features. The number of samples was far too small to study seasonal/annual variation characteristics. Atmospheric Chemistry and Physics journal should publish a large scale study with a wide range of sampling fields and more sample quantity, but not this limited and local study.

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-985>, 2018.

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