**Title of the manuscript:** **Noble gas cluster ions**

Response to Reviewers

\* General comments

The format of your latex style is not correct.

Use document class as followings:

\documentclass[epj,twocolumn]{webofc}

Do not use the package {multicol}

For numerical expression, you should insert " x " between mantissa and

exponent part.

For example, in tex expression, you should correct line 65 (in tex source) from

"The results are $1.15~10^{-31}, 3.58~10^{-31}, 0.23~10^{-31}

\mathrm{cm}^6/\mathrm{s}$, "

to "The results are $1.15 \times 10^{-31}, 3.58 \times 10^{-31}, 0.23

\times 10^{-31} \mathrm{cm}^6/\mathrm{s}$, "

Similar expressions are found in Section 3 and 4.

The format of our latex style is reconsidered and revised.

\* Abstract

Show the meanings (or reference) of the terms "B3LYP" and "SDD".

In abstract, this sentences “The optimized structures in the ground state were calculated using the density functional theory (DFT) with the B3LYP method combined with the SDD basis set” was revised as below:

The optimized structures in the ground state were calculated using the density functional theory (DFT) by the B3LYP method combined with the Stuttgart/Dresden effective core potential basis set (SDD).

And the reference in below was added in computational methods section for SDD basis set:

[Lv G](http://www.ncbi.nlm.nih.gov/pubmed/?term=Lv%20G%5BAuthor%5D&cauthor=true&cauthor_uid=20352722)., [Wei F](http://www.ncbi.nlm.nih.gov/pubmed/?term=Wei%20F%5BAuthor%5D&cauthor=true&cauthor_uid=20352722)., [Li Q](http://www.ncbi.nlm.nih.gov/pubmed/?term=Li%20Q%5BAuthor%5D&cauthor=true&cauthor_uid=20352722)., [Shen Q](http://www.ncbi.nlm.nih.gov/pubmed/?term=Shen%20Q%5BAuthor%5D&cauthor=true&cauthor_uid=20352722)., [Jiang H](http://www.ncbi.nlm.nih.gov/pubmed/?term=Jiang%20H%5BAuthor%5D&cauthor=true&cauthor_uid=20352722)., [Zhou Y](http://www.ncbi.nlm.nih.gov/pubmed/?term=Zhou%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=20352722)., [Wang X](http://www.ncbi.nlm.nih.gov/pubmed/?term=Wang%20X%5BAuthor%5D&cauthor=true&cauthor_uid=20352722). J. Nanosci. Nanotechnol.**10**, 809-818 (2010).

\*Section 1

p1c2 line 4

"... we will calculate..." -->  "... we have calculated ..."

This sentences was revised.

\*Section 3

p2c1 line 2

"... a mechanism of the formation of clusters of noble gaseous ..."

There are many "of "s in one sentence. If possible, replace with other words.

This situation was corrected.

p2c2 line 2

In the equation (1),  "]" missing.

"]" was added in equation (1).

line 9

You showed experimental values of rate constants.

Are those the value that you have measured?

If Yes, show the experimental setup or the reference of your measurement.

If No, show the reference of the base report.

The reference was added for the experimental measurements in the manuscript.

Thank you very much your positive comments.