

Thank you very much for all the comments and suggestions from the editor and reviewer. The manuscript has been updated and here I list the answers to the questions one by one.

Q1: In 1. "a 3-4 σ significance" no "a"

Answer/Modification: It has been modified in the manuscript.

Q2: "to a precision of" -> "to the precision of"

Answer/Modification: It has been modified in the manuscript.

Q3: a 35.4 m diameter spherical" no "a"

Answer/Modification: It has been modified in the manuscript.

Q4: Certain abbreviations are introduced, but not used. For example, "Ultra Pure Water System (UPWS)" which is just referred in the text as water system.

Answer/Modification: Sorry for that. They have been modified in the manuscript.

Q5: Add more text to Fig.2 caption for the clarity.

Answer/Modification: More detailed information has been added to the manuscript. Hope it is better now.

Q6: Page 3 in the sentence before the last please add "Ra" after 226.

Answer/Modification: Sorry for the typo, it has been updated in the manuscript.

-Q7: For Fig.3 I would add some more explanation in the caption for the clarity. Mn fiber is one or a few?

Answer/Modification: I added some explanation and also a picture of Mn-fiber. Hope it is better now.

Q8: The title page is not included into the page limit. Hope it helps.

Answer/Modification: Thank you very much for the information. I added a bit more detail about the system in the manuscript.