

# Review of: "Synthesis, Characterization and Ameliorative Effect of Iron Oxide Nanoparticles on Saline-Stressed Zea Mays"

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Potential competing interests: No potential competing interests to declare.

**The manuscript entitled " Synthesis, Characterization and Ameliorative Effect of Iron Oxide Nanoparticles on Saline-Stressed Zea Mays" is well-structured and logically ordered, and it addresses an important topic that will be of interest to the readers of the journal; therefore, it can be considered for publication with some minor revisions:**

1. Also, in the Introduction section, the authors should replace the older references with newer ones. For instance, the reference (Nair et al., 2010) should be replaced with newer ones.
2. Authors should add a data sheet for the considered chemicals, illustrating their chemical formulae and structures.
3. Conclusion of the study needs to be revised.
4. It has some grammatical and space errors that need to be corrected. Authors need to proofread the article thoroughly. In addition, this article has some ambiguous statements which do not fully depict the information provided.
5. Magnetic studies of the nanocomposite need to be conducted.
6. No explanation about what ratio of plant extract to  $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$  was used. No explanation or reference was provided to choose the doses, i.e., FeONP solution (1: 10 g/ml of the FeONP to distilled water).
7. Results need more interpretations; many times, authors show results without discussions.
8. The current form of the Abstract should be revised considering key results.
9. The explanation of FTIR studies needs to be improved.
10. The manuscript in its current form possesses many grammatical and language errors like FeO NPs; FeONPs and 4°C; 4 °C and  $\text{KH}_2\text{PO}_4/\text{K}_2\text{HPO}_4$ . Authors must carefully look into this, particularly in the Introduction section. Scientific names are not in the standard format.
11. The reason behind the selection of these materials should be mentioned.
12. The title of the study needs to be modified, as at present it is very ordinary.
13. What is the innovation of this work?