

## 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 authors present new experimental measurements of synthesis, characterization, and ameliorative effect of iron oxide nanoparticles on saline-stressed Zea mays. The authors should check the English language in the manuscript.

The manuscript "Synthesis, Characterization, and Ameliorative Effect of Iron Oxide Nanoparticles on Saline-Stressed Zea Mays" was reported. Iron oxide nanoparticles were synthesized using an aqueous leaf extract of Diodella sarmentosa, and the results of the characterization using FTIR, XRD, EDX, TEM, UV-vis, and SEM were analysed. This work is significant for the study of nanotechnology, which has recently caught the attention of research experts from numerous disciplines of science and plays an important role in medicine, agriculture, industry, the environment, energy, and electronics. Overall, the work covers an important agricultural issue, concentrating on the influence of excessive soil salt on crop productivity and the possible relieving effects of iron oxide nanoparticles (FeONPs) derived from Diodella sarmentosa leaf extract. The experimental strategy and methods used for nanoparticle creation and subsequent foliar administration to Zea mays are impressive. Therefore, my suggestion is that the manuscript can be accepted after minor revisions. The comments are shown as follows:

Comment (1): The font and size of all letters and numbers in this work, and the format of figures, tables, equations, and references should be carefully modified according to the Journal Guide for Authors. In addition, the authors should carefully check and revise the grammar and punctuation.

Comment (2): In the Introduction section, elaborate on the existing literature and highlight the research gap that this study aims to address.

Comment (3): Give more information on the discussion about the description of each technique's role in confirming the synthesis and characteristics of FeONPs; it would be beneficial.

Comment (4): In Table 4, write the full forms for SOD and CAT.

Comment (5): In Figure 6, the author must rewrite the caption.

Comment (6): In the conclusion, rewrite "temperature."

Comment (7): In the references, the names of the journals should be abbreviated according to the format of the journal.

