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

Edith Luévano-Hipólito[1]

1 Autonomous University of Nuevo León

Potential competing interests: No potential competing interests to declare.

This manuscript proposes an interesting approach for soil remediation using iron nanoparticles. The authors analyzed the results by statistical methods and evidenced their potential to reduce the stress. However, I would recommend revising the following points:

1. In the introduction, include what the soil's safe concentration or loading of Fe nanoparticles is.
2. Why did the authors select fresh leaves of *Diodella sarmentosa* for the synthesis?
3. Avoid using three decimals in the wavenumbers for FTIR discussion. Also, repeat this analysis since the quality is low.
4. Avoid stating that 380 nm is “the optimal” for the nanoparticles. This is not true. It is just the maximum absorption.
5. Include micrographs of the Fe nanoparticles without the green additive (to compare the effect of the green extract).
6. Why did the authors not report the carbon amount in the EDS analysis? Since the FTIR suggests a high amount of C in the sample.
7. Include more conclusions and analysis of the results of the soil, since the nanoparticle synthesis is a widely studied topic.