

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

Mays
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Potential competing interests: No potential competing interests to declare.
The manuscript needs major revision.
Title
Title
Synthesis, Characterization and Ameliorative Effect of Iron Oxide Nanoparticles on Saline-Stressed Zea Mays
Abstract
The abstract is adequate.
1. Introduction
• Authors must choose whether references will be cited in the text of the manuscript in a specific order, from most receive to past or from past to present.
e.g., P2:L15,L16
(Kaleem et al., 2018; Khan et al., 2017; Ahmad et al., 2017).
(Ahmad et al., 2017; Khan et al., 2017; Kaleem et al., 2018).
(Etesami and Glick, 2020; Etesami and Jeong, 2018; Liang et al., 2018) Or
(Liang et al., 2018; Etesami and Jeong, 2018; Etesami and Glick, 2020)
P2:L8
(Ahmad et al., 2019; Change to
(Ahmad and Akhtar, 2019;
P2:L23,L24

Qeios ID: 2PNTRU · https://doi.org/10.32388/2PNTRU



	(Alvarez-Chimal & Angel Arenas-Alatorre, 2023).	Change to			
	(Alvarez-Chimal and Arenas-Alatorre, 2023).				
lı	ncomplete reference				
P2:L3:	3				
	(Tripathi et al., 2017a)	Change to			
	(Tripathi et al., 2017)				
P3:L10	0				
	(Rout &Sahoo, 2015)	Change to			
	(Rout and Sahoo, 2015)				
• Imp	portant:				
At the end of the introduction, authors should add information about the measurements that will be performed in the current research and what is the novelty of this study for application?					
• In g	general: the introduction is adequate.				
2. Mat	erials & Methods				
A	Add reference(s) for FeONPs synthesis preparation				
2.3. In	strumental analysis of the nanoparticles				
P4:L5					
	frequency range	Change to			
	wavenumber range				
A	Add the FTIR spectrophotometer model used.				
P5:L4					
	Scherrer equation β=k:lcos+				
• Rev	write Scherer's equation in clear form				
• Add	Add the EDX device model used.				

2.4. Seed and Soil Preparation



• Add reference(s) for preparing homogeneous soil samples

2.5. Pot Experiment

P5:L1

..... oZea mays !!!

2.7. Assessment of Antioxidant Enzyme Activity

P6:L1,L2

..... using the Mukherjee (Mukherjee, 1983) method by Change to using the Mukherjee method (Mukherjee and Choudhuri, 1983) by

P6:L4, L5

..... analyze CAT and SOD activities. Change to

..... analyze catalase (CAT) and superoxide dismutase (SOD) activities

P7:L2

2.9. of per centage indices Change to

2.9. of percentage indices

P7:L3

The per centage chlorophyll contents Change to

The percentage chlorophyll contents

P7,L5,L6

• Write the equation in the correct form (on the line)

where T= test value, C = control value. Change to

where T= test value, and C = control value.

3. Results

3.1. FTIR spectroscopic analysis

P7:L1

..... the fourier-transform Change to



tho	Fourio	r-transf	orm
ine	Fourie	r-iransi	orm

P7:L3 and L15

- (supplementary attachment 1) Or (supplementary attachment 2)
- What about the table represented in supplementary attachment 1?

P7:L6

..... in 1º amine and 2 0 amine compounds, !!!

..... The wavenumber around 1850.270cm⁻¹ is

P7:L11

..... The wavelength around 1850.270cm⁻¹ is Change to

P7:L13

.... in 3 0 alcohol was found !!!

· Add reference(s) to verify assignments obtained from the spectrum of synthesized iron nanoparticles.

3.2. Uv-vis

• Add reference(s) to verify the interpretation obtained.

3.3. Microscopic studies of the synthesized nanoparticles

• Add reference(s) to verify the interpretation obtained.

3.7. FeONPs ameliorative effects on salinized plants

P14:L10

..... Gonz§alez-García et al., 2021; Change to

..... Gonz'alez-García et al., 2021;

P15:L14

..... Gohari et al. 2020b). Change to

..... Gohari et al. 2020).

Conclusion Change to

4. Conclusion



P19:L2

at 80 0C.	Change to
at 80 °C.	

P19:L4

light absorption peak of 380 m to have about 2.5Kev	Change to
light absorption peak of 380 nm to have about 2.5KeV	Change to

• The conclusion is adequate

References

The references were written in an incorrect and disorganized manner. The journal's instructions for writing references must be followed.

Figures

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Figure 4. .... synthesized Iron oxide ..... Change to
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The figure shown in supplementary attachment 2 is not clear.

Table

What about the table shown in supplementary attachment 1?

What about a, b, c and d in the table shown in supplementary attachment 1?

What about a, b, c and d in Tables 2 and 3?