

Review Form 1.6

Journal Name:	Asian Journal of Research in Botany
Manuscript Number:	Ms_AJRIB_82629
Title of the Manuscript:	PHYSIOLOGICAL RESPONSES OF MAIZE (Zea mays L.) TO COPPER (Cu) INDUCED STRESS
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal’s peer review policy states that **NO** manuscript should be rejected only on the basis of ‘**lack of Novelty**’, provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://journalajrib.com/index.php/AJRIB/editorial-policy> )

PART 1: Review Comments

	Reviewer’s comment	Author’s comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Compulsory</b> REVISION comments	<div>❑ Although the topic is interesting, it has some shortcomings with respect to the methods of analysis and the representation of results; which results in poor discussion. In materials and methods, it does not specify the experimental design used or the number of repetitions. In addition, the use of a variance analysis and multiple comparison tests is mentioned; however, in results it is limited to the representation of bar graphs with standard deviations per treatment, without showing the statistical differences by any mean test</div> <div>❑ The authors assume that as copper concentrations are higher, maize productivity decreases, which seems evident according to the results; however, it is suggested to use some statistical evidence to verify such a finding, it is suggested to use the Pearson correlation or Principal Component Analysis.</div>	<div>1. The experimental design used was Randomized Complete Block Design (RCBD) with five replicates per treatment.</div> <div>2. One-way analysis of variance (ANOVA) was used to determine the level of significant difference between paired factors.</div>
<b>Minor</b> REVISION comments	<div><b>Title:</b> The audience of the manuscript is the international community; it is convenient to add the country.</div> <div>❑ <b>Materials and methods:</b> Study area: It is recommended to add cartography so that the reader can spatially locate the place where the research was developed.</div>	<div>i. The research was carried out in Nigeria and is corrected</div> <div>2. Cartography could not be added. The research was carried out at the Department of Plant Science and Biotechnology screen house University of Port Harcourt, Nigeria and the study area is well spell out in the manuscript</div>
<b>Optional/General</b> comments	<div>❑ In my opinion, although the work is interesting and well structured, the deficiency of the statistical methods to validate the differences between treatments is a limitation to accept the work in the journal. It is suggested that authors develop statistical evidence to give greater scientific validity to their findings, before being published in the journal</div>	<div>One-way analysis of variance (ANOVA) was used as statistical evidence to validate the differences between treatments which give greater scientific validity to the findings.</div>

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PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	