

Review Form 1.7

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_102839
Title of the Manuscript:	Biochar's Influence on Soil Microorganisms: Understanding the Impacts and Mechanisms
Type of the Article	Review 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://www.journalijpss.com/index.php/IJPSS/editorial-policy>)

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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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>Certainly yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Yes</p>	
<p>Optional/General comments</p>	<p>Certainly! Biochar is a highly porous form of charcoal produced from biomass through a process called pyrolysis. It has gained significant attention as a soil amendment due to its potential to improve soil fertility, carbon sequestration, and overall agricultural sustainability. However, despite extensive research on biochar, there are still several knowledge gaps that exist in its application for soil amendment. Here are a few notable ones:</p> <p>Interaction with soil microbiota: Soil microorganisms play a vital role in nutrient cycling, organic matter decomposition, and overall soil health. However, the specific mechanisms and interactions between biochar and soil microbiota are not yet fully understood. The author has addressed the mechanism of interaction but further research is needed to elucidate how biochar influences the composition and activity of soil microbial communities and how these interactions affect nutrient availability and plant growth.</p> <p>Addressing these knowledge gaps will contribute to a better understanding of the potential benefits, limitations, and optimal utilization of biochar as a soil amendment, allowing for more informed and sustainable agricultural practices.</p> <p>Finally, the referencing style on the body of the text should be adjusted. Instead of writing gbenga et. al 2023 replace with numbers as in 1, 2, 3 etc. serially</p>	

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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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Reviewer Details:

Name:	Nene Pearl Eluchie
Department, University & Country	Nigeria